



FIRE & POLICE PENSION ASSOCIATION *of* COLORADO



**FPPA**

COMPREHENSIVE

ANNUAL

FINANCIAL

REPORT

*for the*

FISCAL YEAR

ENDED

DECEMBER 31, 2017





This report was created  
under the direction of the  
FPPA Board of Directors  
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## **FPPA**

Fire & Police Pension Association  
of Colorado

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## FIRE & POLICE PENSION ASSOCIATION *of* COLORADO

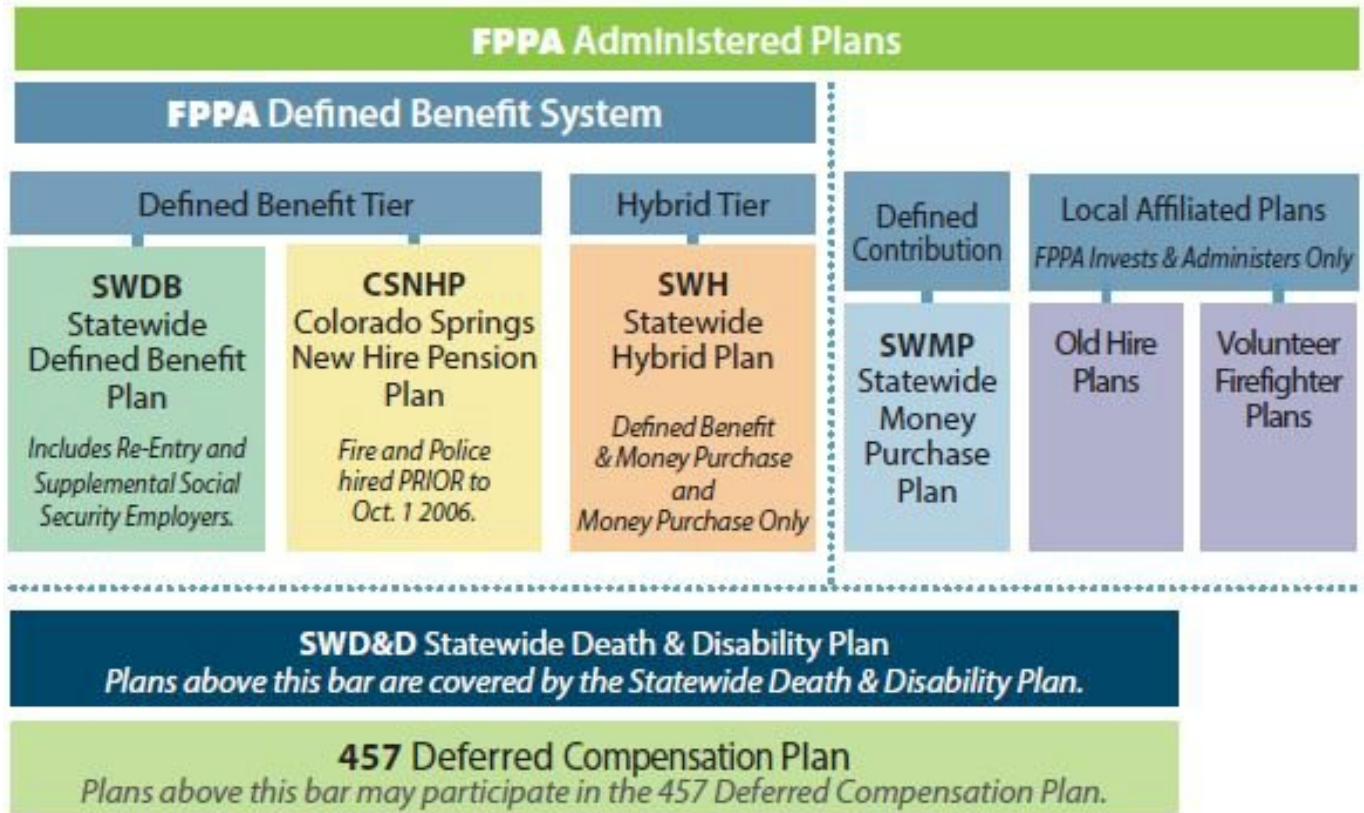


### MISSION STATEMENT

The Fire & Police Pension Association of Colorado is committed to our members. We will prudently invest their retirement funds, administer benefits impartially, and efficiently provide high quality service.



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June 30, 2018

Dear Fire & Police Pension Association Members, Benefit Recipients, Employers, and Members of the Board of Directors:

We are pleased to present the Fire & Police Pension Association's (FPPA) Comprehensive Annual Financial Report (CAFR) for the calendar year ended December 31, 2017. This CAFR was prepared to aid interested parties in assessing FPPA's financial status as of December 31, 2017, and its results for the year then ended. The compilation of this CAFR reflects the combined efforts of FPPA staff and is the responsibility of FPPA management.

### Overview of FPPA

The Fire & Police Pension Association was established in 1980 pursuant to the Colorado Revised Statutes of 1973, as amended. FPPA administers retirement and disability benefits for police officers and firefighters throughout the State of Colorado. FPPA has defined benefit, defined contribution, hybrid, and 457 deferred compensation plans for the benefit of its members. FPPA's defined benefit programs include cost-sharing multiple-employer pension plans as well as agent multiple-employer pension plans and single-employer pension plans. FPPA administers two funds: the Fire & Police Members' Benefit Investment Fund and the Fire & Police Members' Self-Directed Investment Fund ("the Funds").

The Fire & Police Members' Benefit Investment Fund includes the assets of those plans that fall under the complete investment authority of the FPPA Board of Directors. This fund includes the assets of the Defined Benefit System, the Statewide Death & Disability Plan, and Affiliated Local Plans. The Defined Benefit System comprises the Statewide Defined Benefit Plan, the Statewide Hybrid Plan, and the Colorado Springs New Hire Pension Plan. Affiliated Local Plans comprises numerous separate Local "Old Hire" police and fire plans and Volunteer Firefighter pension plans.

The Fire & Police Members' Self-Directed Investment Fund consists of the assets in plans where members control their account by choosing from various investment options selected by the Self-Directed Plans Committee pursuant to the fund structure approved by the board of directors. The Fire & Police Members' Self-Directed Investment Fund includes the assets in the Fire & Police Members' Statewide Money Purchase Plan and the Fire & Police Members' Deferred Compensation Plan. In addition, the Fire & Police Members' Self-Directed Investment Fund includes assets of certain Deferred Retirement Option Plans within the Defined Benefit System and affiliated Local "Old Hire" pension plans. This fund also includes the Money Purchase Component of the Defined Benefit System – Statewide Hybrid Plan, and the Separate Retirement Account assets from eligible Defined Benefit System retired members.

### Financial Highlights

#### General Economic Conditions

The Fire & Police Members' Benefit Investment Fund experienced positive performance for the year ended December 31, 2017. Real gross domestic product (GDP), a broad measure of the output of goods and services in the United States, increased at an estimated annual rate of 2.3% in 2017, compared to an increase of 1.5% in 2016. The labor markets improved in 2017 with non-farm payroll employment increasing by 2.2 million jobs during the year. The unemployment rate decreased to 4.1% in 2017 from 4.7% during 2016. The Federal Reserve increased the targeted federal funds rate three times from 0.75% in 2016 to 1.50% by the end of 2017. The consumer price index increased to 2.1% in 2017 compared to an increase of 1.0% in 2016.

The U.S. markets were positive in 2017. Large company stocks, as measured by the Russell 1000 Index, increased 21.7% in 2017 compared to an increase of 12.1% in 2016. Smaller company stocks, as measured by the Russell 2000 Index, increased 14.6% in 2017 compared to an increase of 21.3% in 2016. The Barclays Capital U.S. Aggregate Bond Index produced a return of 3.5% in 2017 compared to a return of 2.7% in 2016. Developed international equity markets outperformed the U.S. equity markets in 2017. The MSCI EAFE Index increased by 25.6% in 2017 compared to an increase of 1.5% in 2016. The MSCI Emerging Markets Index increased 37.8% in 2017 after increasing 11.6% in 2016.

In the currency markets, the U.S. dollar depreciated against most major currencies in 2017. The Euro appreciated 14.2% against the Dollar, closing at 1.2005 Dollars per Euro in 2017 from 1.0517 at the end of 2016. The British Pound appreciated 9.5% against the Dollar, closing at 1.3513 Dollars per GRB in 2017 from 1.2370 at the end of 2016. The Dollar depreciated 6.5% against the

Canadian Dollar resulting in a rate of 1.2571 Canadian Dollars per U.S. Dollar in 2017 from 1.3441 at the end of 2016. The Dollar depreciated 3.7% relative to the Japanese Yen to 112.69 Yen per Dollar in 2017 from 116.96 at the end of 2016.

Additional information regarding the investments of the Funds can be found in the Investment section of this report.

## Investments

Net investible assets totaled \$5.393 billion in market value as of December 31, 2017, which was comprised of the Fire & Police Members' Benefit Investment Fund (\$4.940 billion) and the Fire & Police Members' Self-Directed Investment Fund (\$0.452 billion). The Members' Benefit Investment Fund generated a total time-weighted return of 14.95%, net of fees, for the one-year period ending December 31, 2017. This return was 1.30% above the Implementation Benchmark of 13.65%. The Members' Benefit Investment Fund has achieved a 9.48% annualized return since inception in January 1980.

The board of directors establishes and continually updates investment allocation targets. At year-end, the following investment allocation targets were in effect: global equity 37.0%; equity long/short 9.0%; fixed income & cash 17.0%; absolute return 9.0%; managed futures 4.0%; and illiquid alternatives 24.0%. At year-end, the Fire & Police Members' Benefit Investment Fund was allocated as follows: global equity 38.3%; equity long/short 8.9%; fixed Income & cash 17.1%; absolute return 9.5%; managed futures 4.0%; and illiquid alternatives 22.3%. The board of directors has established investment policies and objectives to define acceptable levels of risk, asset allocation targets, asset class guidelines, investment performance objectives, and other guidelines governing the management of the Fire & Police Members' Benefit Investment Fund. The board of directors has adopted a separate statement of policies and objectives for the Fire & Police Members' Self Directed Investment Fund which includes investment objectives, criteria for the selection of investment options and mutual fund guidelines.

Explanations of FPPA's investment policies and asset allocation strategy, as well as the portfolio's composition are included in the Investment Section of this report. Additionally, a review of investment activity and performance for 2017 is included in that section.

## Funding Status

Each pension plan administered by FPPA must be separately funded. Assets from one plan cannot be used to pay the benefit obligations of any other plan. Therefore, the funding status of each individual plan must be judged separately.

FPPA's funding objective for the Fire & Police Members' Benefit Investment Fund is to meet long-term benefit promises through contributions and investment income. The funding ratios listed in the following chart give an indication of how well this objective has been met to date. The higher the funding ratio, the better funded the plan.

The funding ratio (actuarial value of assets divided by actuarial accrued liability) for each of the plans in the Defined Benefit System and the Statewide Death & Disability Plan as of January 1, 2017 is as follows:

<b>Plan (information as of January 1, 2017)</b>	<b>Funding Ratio</b>	<b>Actuarial Value of Assets</b>	<b>Actuarial Accrued Liability</b>
Statewide Death & Disability Plan	104.8%	\$374,943,903	\$357,915,920
<b>Defined Benefit System</b>			
Statewide Defined Benefit Plan	101.4%	2,050,113,711	2,021,526,883
Statewide Hybrid Plan – Defined Benefit Component	129.6%	54,702,116	42,201,793
Colorado Springs New Hire Pension Plan – Police Component	86.7%	286,951,659	331,007,540
Colorado Springs New Hire Pension Plan – Fire Component	80.4%	131,529,543	163,542,442

Affiliated Local Plans are not listed because the data necessary to calculate a gain/loss analysis on all Local Plans was not available as of the January 1, 2017, actuarial valuations.



The Affiliated Local Plans and Colorado Springs New Hire Pension Plan - Police and Fire Components are plans for which FPPA has been asked to and has undertaken investment and recordkeeping responsibility, but are not plans for which FPPA has determined or set the benefits, or the funding policy. Funding for pension liabilities for Affiliated Local Plans is the responsibility of the employers. Funding for the Colorado Springs New Hire Pension Plan – Police and Fire Components is the responsibility of the active members and the employer.

Investment income is a significant driver in a defined benefit plan. Market performance was lower than the actuarial return assumption in 2016, and this factor, viewed in isolation, will likely decrease the funded status of the plans. The actuarial assumptions implemented in January 1, 2016 are a more conservative position for the Fire & Police Pension Association and decreased the funded status of the plans. The assumption changes are discussed in more detail in the Actuarial Section.

### Active Membership and Participating Employers

The members listed in the following schedule are comprised of 42.2% police officers, 56.8% firefighters, and 0.9% administrative fire district staff.

Active Membership in the Plans	12/31/2017	12/31/2016	% Change
Statewide Death & Disability Plan	12,214	11,975	2.0%
Defined Benefit System			
Statewide Defined Benefit Plan	8,727	7,920	10.2%
Statewide Hybrid Plan	377	353	6.8%
Colorado Springs New Hire Pension Plan*	497	520	(4.4%)
Affiliated Local Plans			
Old Hire*	6	7	(14.3%)
Volunteer Firefighters	2,883	3,074	(6.2%)
Statewide Money Purchase Plan	118	125	(5.6%)

\* Plans are closed to new members

The participating employer fire and police departments in the plans are as follows:

Participating Employer Departments in the Plans	12/31/2017	12/31/2016	% Change
Statewide Death & Disability Plan	411	396	3.8%
Defined Benefit System			
Statewide Defined Benefit Plan	227	216	5.1%
Statewide Hybrid Plan	40	37	8.1%
Colorado Springs New Hire Pension Plan	1	1	0.0%
Affiliated Local Plans			
Old Hire	48	49	(2.0%)
Volunteer Firefighters	173	174	(0.6%)
Statewide Money Purchase Plan	48	45	6.7%

### Summary Financial Information

The following schedule is a comparative summary of the revenues and expenses of the Funds for the years ended December 31, 2017 and December 31, 2016.

	12/31/2017	12/31/2016	% Change
Contributions	\$450,141,473	\$227,732,830	97.7%
Net Investment Income	692,898,213	246,981,141	180.5%
Benefit Payments and Refunds	(420,597,867)	(326,863,043)	28.7%
Administrative Expenses	(7,587,441)	(7,858,514)	(3.4%)
Pension Expense	(7,710,913)	(2,223,205)	246.8%
Net Change	\$707,143,465	\$137,769,209	413.3%

Management's discussion and analysis (MD&A) immediately follows the independent auditor's report and provides a narrative introduction, overview, and analysis of the basic financial statements. The MD&A complements this letter of transmittal and should be read in conjunction with it.

Additionally, graphs and charts of statistical data may be found throughout the CAFR.

### Accounting System and Internal Control

The financial statements included in this report, along with all other information provided, are the responsibility of the management of the Fire & Police Pension Association. The financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America applicable to financial audit contained in Government Auditing Standards, including the pronouncements of the Governmental Accounting Standards Board (GASB). In management's opinion, the financial statements present fairly the financial position of the FPPA at December 31, 2017, and the result of its operations for the period then ended.

The management of the Fire and Police Pension Association is also responsible for maintaining a system of internal accounting controls designed to provide reasonable assurance that transactions are executed and reported in accordance with generally accepted accounting principles. 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 judgments by management.

FPPA has an internal audit program that encompasses the examination of internal controls. The internal audit function reports directly to the Executive Director and the board of directors. The board of directors has established an Audit Committee, comprised of three board members. The internal auditor reported that FPPA's system of internal controls appears adequate and is being adhered to in the areas tested. Additionally, FPPA completes an annual Service Organization Controls (SOC) 1 Type 2 report on FPPA's internal controls over financial reporting for the Local Affiliated Plans. This report includes controls over information technology and operational processes to provide assurances for Local Affiliated Plans with regard to Governmental Accounting Standards Board (GASB) Statement No. 68, Accounting and Financial Reporting for Pensions. We believe that the internal controls in effect during the year ended December 31, 2017, adequately safeguarded assets and provided reasonable assurance regarding the proper recording and reporting of financial transactions.

### Newly Implemented Accounting Standards

FPPA implemented Government Accounting Standards Board (GASB) Statement No. 74, Financial Reporting for Postemployment Benefits Other Than Pension Plans for the reporting period ended December 31, 2017. The objective of GASB Statement No. 74 is to improve the usefulness of information about postemployment benefits other than pensions (OPEB) by providing expanded note disclosure, greater transparency regarding measures of net OPEB liability, and enhanced comparability of reporting from plan to plan. Additional information on the impact of implementation is addressed in the Financial Section.

### Independent Audit

The accounting firm of Eide Bailly LLP rendered an opinion as to the fairness of the Funds' 2017 financial statements. The audit was performed in accordance with government auditing standards generally accepted in the United States of America. The Independent Auditors' Report may be found listed in the Table of Contents at the beginning of this document.

### Major Initiatives

In 2017, FPPA continued to follow its strategic plan and made adjustments, as needed, in response to changing economic conditions. Resources were devoted to several major initiatives.

We began an initiative in 2015 to implement the Baldrige Criteria for Performance Excellence to ensure we align our objectives, processes, and resources with our vision. Progress towards meeting our objectives is measured using the following four key results areas:

- Financial Health and Sustainability
- Investment Returns
- Customer Service and Operational Excellence
- Workforce Engagement

Baldrige recipient organizations often set their strategic objectives to achieve a top decile ranking in each key area of importance to their stakeholders. FPPA will follow a similar process as we set strategic goals and objectives in 2018.

FPPA continued its efforts to improve services, prudently manage fund assets, streamline business operations, and increase operational efficiency. In 2017, we completed the following major initiatives:

- FPPA continues to focus on its member and employer education initiative. We presented to members from fire and police departments throughout the State covering information about the death and disability benefits, retirement benefits, and other services provided by the Association. At these meetings, we offer retirement projections to assist members in planning for their future retirement needs. FPPA hosts two annual seminars. One seminar is for members with topics including pre-retirement planning, estate and tax planning, insurance services, and long term care insurance. The other seminar is for employers with topics including accounting requirements, managing membership and contribution data, fiduciary responsibility, and other related topics. We strongly recommend these seminars to members, retirees, and employers. In addition, we expanded our newsletter communication from one to two times a year and added a Facebook presence to provide more timely information to our membership.
- In 2003, legislation was enacted to allow departments who cover their firefighters and police officers in money purchase plans to elect coverage under the FPPA Defined Benefit System. A reentry moratorium was in place since 2014 as the Statewide Defined Benefit Plan Member Contribution Election was completed. The board of directors lifted the moratorium for partial reentry in 2017 to align with their strategic plan objective to expand membership into FPPA's retirement plans. Staff held a series of meetings in 2017 to present information to departments who expressed interest in entering the FPPA Defined Benefit System. Five departments completed the partial reentry process in 2017. Discussions are ongoing with other departments. These meetings are conducted at the request of the employees or employers. A new JoinFPPA website was developed specifically to provide information on the process.
- Per the guidelines of the Audit Procurement Policy, a Request for Proposals for Audit Services was completed in 2017 and a new audit firm (Eide Bailly LLP) was selected.
- A new Plan Allocation of Expenses Policy was implemented effective January 2017 to address the strategic plan initiative to improve the methodology for assessing administrative fees to each plan.
- In 2017 we began a multi-year redesign of our core pension management system to incorporate business process management workflow solutions and reengineer the Member Account Portal (MAP) and the Employer Portal with self-service features. MAP was enhanced with additional retiree self-service features. We began the development of a new member onboarding process, which impacts the MAP and the Employer Portal, and will be implemented in 2018.
- FPPA periodically reevaluates its investment consultant relationships. Upon the completion of a rigorous Request for Proposal process, the board of directors selected Cambridge Associates as its new general investment consultant. Cambridge Associates was also selected as the investment consultant supporting FPPA's private markets and hedge fund programs.

- FPPA enhanced its investment process through the creation of an Internal Investment Committee. Comprised of executive staff and senior investment personnel, the Committee provides additional oversight of the execution of the investment program.

## Legislation

Two pieces of legislation were passed into law affecting FPPA and its plans in 2017:

### Senate Bill 17-020

The bill established a uniform rate for approval for member elections throughout all plans and processes under FPPA governance. The new standard for passage of an election is 65% of members voting in the election.

### Senate Bill 17-013

This bill authorized the FPPA Board of Directors to develop a multi-employer deferred compensation plan document to allow employers to join a multi-employer plan. A new multi-employer plan was subsequently adopted by the FPPA Board to replace the previous affiliated local deferred compensation plans effective January 1, 2018.

## Awards

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Fire and Police Pension Association for its comprehensive annual financial report for the fiscal year ended December 31, 2016. The Certificate of Achievement is a prestigious national award recognizing conformance with the highest standards for preparation of state and local government financial reports. FPPA has annually received a Certificate of Achievement from GFOA since our first CAFR was published in 1996.

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

A Certificate of Achievement is valid for a period of one year only. FPPA believes our current report continues to conform to the Certificate of Achievement program requirements, and we are submitting it to GFOA.

In addition, FPPA received The Public Pension Standards Award for 2017 from the Public Pension Coordinating Council. The award recognizes the Association's conformance with professional standards for plan design and administration.

## Acknowledgments

This annual report of the Fire and Police Pension Association was prepared through the combined efforts of the FPPA staff under the leadership of the board of directors. It is intended to provide complete and reliable information which may be used as a basis for making management decisions and as a means for determining compliance with state statutes.

Access to this report is being provided to the State Auditor, the Joint Budget Committee, the Police Officers' and Firefighters' Pension Reform Commission, all participating employers, and other interested parties.

Respectfully submitted,

Dan M. Slack  
FPPA Executive Director



Government Finance Officers Association

**Certificate of  
Achievement  
for Excellence  
in Financial  
Reporting**

Presented to

**Fire & Police Pension  
Association of Colorado**

For its Comprehensive Annual  
Financial Report  
for the Fiscal Year Ended

**December 31, 2016**

*Christopher P. Morill*

Executive Director/CEO



Public Pension Coordinating Council

**Public Pension Standards Award  
For Funding and Administration  
2017**

Presented to

**Fire and Police Pension Association of Colorado**

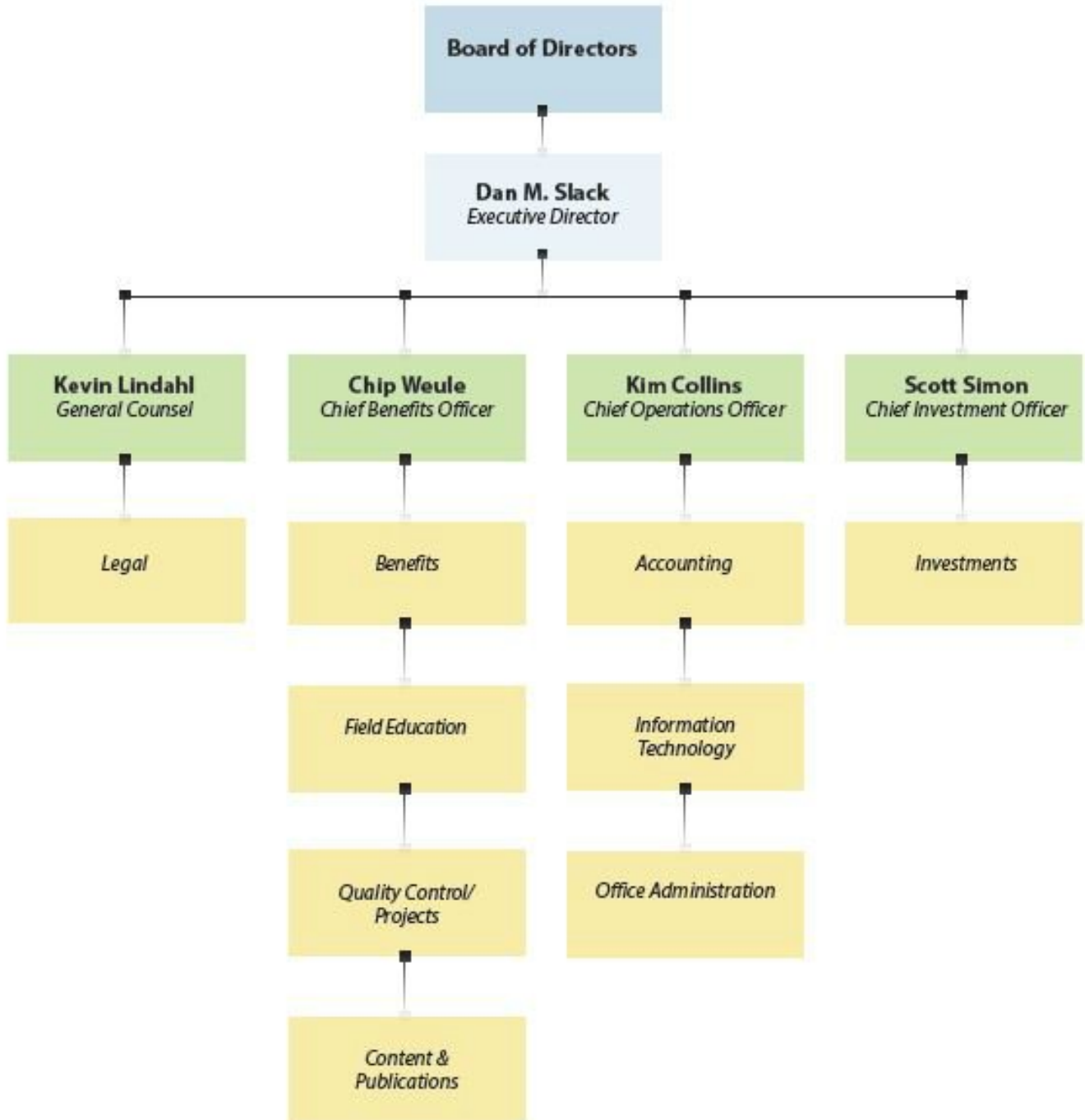
In recognition of meeting professional standards for  
plan funding and administration as  
set forth in the Public Pension Standards.

*Presented by the Public Pension Coordinating Council, a confederation of*

National Association of State Retirement Administrators (NASRA)  
National Conference on Public Employee Retirement Systems (NCPERS)  
National Council on Teacher Retirement (NCTR)

*Alan H. Winkle*

Alan H. Winkle  
Program Administrator



By state statute, the management of the Fire & Police Members' Benefit Investment Fund and the Fire & Police Members' Self-Directed Investment Fund (the Funds) is vested in the board of directors of the Fire and Police Pension Association of Colorado. Appointed by the Governor and confirmed by the Senate, the FPPA Board of Directors is composed of nine members:

**Two members** representing Colorado municipal employers;

**One member** representing full-time paid firefighters;

**One member** representing full-time paid police officers;

**One member** who is either a member of the board of directors of a special district, or is the full-time paid professional manager of a special district to represent special districts having volunteer firefighters;

**One member** from the state's financial or business community with experience in investments;

**One member** from the state's financial or business community with experience in insurance disability claims; and

**One member** of the state's financial or business community experienced in personnel or corporate administration in corporations of over 200 employees.

All of the eight board of directors mentioned above serve four-year staggered terms.

**One member** who is a retired firefighter and who, upon completion of his term, is replaced by a retired police officer. Thereafter, the appointment of retired officers alternates between a retired police officer and a retired firefighter for each successive six-year term.

Specific duties of the board of directors include investing and managing the Funds, disbursing money from the Funds, setting required contribution levels, and determining the award of disability and survivor benefits. The board of directors also appoints an Executive Director who is FPPA's chief administrative officer. The Executive Director appoints FPPA staff who are responsible for the day-to-day administration of the firefighter and police pension funds.

The FPPA Board of Directors accomplishes its business at regular and educational meetings, held ten times per year. In accordance with state law, each meeting's proposed agenda items are posted at least 24 hours in advance. All meetings are open to the public.



**Nick Nuanes**  
Board Chair  
*Retired Firefighter,  
Chief Denver Fire Department*  
Member since 2013  
Current term expires 9/1/19

**David L. Bomberger, CFA**  
Board Vice Chair  
*Chief Investment Officer,  
Pinnacol Assurance*  
Member since 2013  
Current term expires 9/1/18



**Todd Bower, JD, MBA**  
*Deputy Chief,  
Denver Fire Department*  
Member since 2001  
Current term expires 9/1/19



**Pamela M. Feely,  
CPA, MBA, AF**  
*President, West Metro  
Fire Rescue District IV*  
Member since 2011  
Current term expires 9/1/19

**Karen M. Frame, CFA**  
*Former Chief Compliance  
Officer, CenturyLink  
Investment Management*  
Member since 2018  
Current term expires 9/1/21



**Tammy Hitchens,  
CPA, CPFO**  
*Finance Director,  
City of Westminster*  
Member since 2017  
Current term expires 9/1/19



**Sue Morgan, CCP**  
*Human Resources Manager,  
Town of Castle Rock*  
Member since 2015  
Current term expires 9/1/21



**Guy Torres,  
CIMA®, AIF®, MBA**  
*Managing Director,  
Pacific Income Advisers, Inc.*  
Member since 2016  
Current term expires 9/1/20



**Tyson Worrell**  
*Detective,  
Denver Police Department*  
Member since 2012  
Current term expires 9/1/20



**Professional Consultants***Actuarial*

Gabriel Roeder Smith & Co

*Auditor*

Eide Bailly LLP  
BKD, LLP

*Board Medical Advisor*

Clarence Henke, M.D., P.C.

*Investment Consultants*

Albourne America, LLC  
AndCO Consulting, LLC  
Institutional Shareholder Services  
Pension Consulting Alliance

*Investment Compliance*

EIRIS Conflict Risk Network  
IW Financial  
Subrosa Investigations, LLC

*Master Custodian/Trustee*

BNY Mellon Asset Servicing

*Recordkeeper*

Fidelity Investments

*Management*

Calhoun Consulting Partners, LLC  
Choose People  
Corey Speaks, LLC  
Nicoletti-Flater Associates

*Legal Counsel*

Hoffman, Parker, Wilson & Carberry, P.C.  
Ice Miller LLP  
Jackson Walker LLP  
SJT Law, LLC  
Thomas L. Kanan, Esq.

*Governmental Relations*

Lombard & Clayton

**Investment Managers\****Total Fund Overlay*

Russell Investments

*Global Equity*

Allianz Global Investors  
Baillie Gifford Overseas  
BNP Paribas  
Driehaus Asset Management  
Kayne Anderson Capital Advisors  
Numeric Investors  
Russell Investments  
State Street Global Advisors  
Walter Scott Partners  
Winton Capital Management Limited

*Equity Long/Short*

AKO Capital  
Anchor Bolt Capital  
Hitchwood Capital Management  
Luxor Capital Partners  
Palestra Capital Partners  
Pershing Square Capital Management  
Rivulet Capital Partners  
RK Capital Management  
Sachem Head Capital Management  
Senator Investment Group  
Southpoint Capital Advisors

*Fixed Income*

Goldman Sachs Asset Management  
Loomis Sayles & Company  
Manulife Asset Management  
Prudential Capital Group  
State Street Global Advisors

*Managed Futures*

AHL Partners  
Graham Capital Management  
KeyQuant  
Winton Capital Management Limited

## Investment Managers\* - continued

### Real Assets

Alpha Petroleum  
ArcLight Energy Partners  
Arroyo Energy Investment Partners  
BroadRiver Asset Management  
Capital Royalty Partners  
Energy Capital Partners  
Enervest  
EIG Management Company  
Incus Capital  
Petroleum Equity RHO  
Raven Capital Management  
RiverRock European Capital Partners  
Rosemawr Management  
Scout Energy Partners  
Wood Creek Capital Management

### Real Estate

Blackrock  
Blackstone Capital Partners  
H2 Real Estate  
JP Morgan Asset Management - Real Estate  
Morgan Stanley Real Estate  
Pauls Realty Fund Advisor  
Prudential Real Estate Investors  
RREEF Alternative Investments  
Velocis

### Absolute Return

Alphadyne Asset Management  
AQR Capital Management  
Arrowgrass Capital Partners  
Autonomy Capital  
Citadel Advisors  
Commonwealth Opportunity Capital  
HBK Capital  
Hudson Bay Capital Associates  
Hutchin Hill Capital  
MKP Capital Management  
Pharo Global Advisors Limited  
Soroban Capital Partners

### Private Equity

Alchemy Special Opportunities  
American Securities  
Boston Ventures  
Bowmark Capital Partners  
Capital Partners  
Catterton Partners  
Centre Lane Partners  
Coller Investment Management Limited  
Commonfund Capital  
CVC European Equity Partners  
Doughty Hanson & Company  
Endeavour Capital  
Energy & Minerals Group  
Enhanced Equity  
Ethos Private Equity  
Gilde Buyout Partners  
Grey Mountain Partners  
HIG Bayside  
H.I.G. Capital  
High Road Capital Partners  
Insight Venture Partners  
J.H. Whitney  
JMI Equity  
Kayne Anderson Capital Advisors  
Kelso Investment Associates  
KPS Capital Partners  
Littlejohn & Co.  
Matlin Patterson  
Mayfair Equity Partners  
Mercato Partners  
MVM Life Science Partners  
Nautic Partners  
NB Dyal  
New Enterprise Associates  
Nordic Capital  
NGP Energy Capital Management  
NVM Private Equity  
Oak Hill Advisors  
O'Brien-Staley Partners  
Oxford Bioscience  
Palladium Capital Management  
Roark Capital Partners  
Rosemont Investment Partners  
Siguler Guff & Company  
TA Associates  
Technology Crossover Ventures  
Texas Pacific Group  
The Raine Group  
Thomas McNerney & Partners  
Transom Capital Group  
Ufenau Capital Partners  
Venture Investment Managers  
Veritas Capital.

\* Additional information on the Investment Managers can be found in the Investment Section



FPPA administers the Fire & Police Members' Benefit Investment Fund which includes the assets of those plans that fall under the complete investment authority of the FPPA Board of Directors. This fund includes the assets of the Defined Benefit System, the Statewide Death & Disability Plan, and numerous separate Local "Old Hire" police and fire plans, and Volunteer Firefighter pension plans. The Defined Benefit System comprises the Statewide Defined Benefit Plan, the Statewide Hybrid Plan, and the Colorado Springs New Hire Pension Plan.

In addition, FPPA administers the Fire & Police Members' Self-Directed Investment Fund which consists of the assets of plans where members control their account by choosing from various mutual fund options selected by the Self-Directed Plans Committee pursuant to the fund structure approved by the board of directors. The Fire & Police Members' Self-Directed Investment Fund includes the assets in the Fire & Police Members' Statewide Money Purchase Plan, and the IRC 457 Deferred Compensation Plan. In addition, the Fire & Police Members' Self-Directed Investment Fund includes assets of certain Deferred Retirement Option Plans within the Defined Benefit System and Affiliated Local "Old Hire" pension plans. This fund also includes the Money Purchase Component of the Defined Benefit System – Statewide Hybrid Plan and the Separate Retirement Account assets from the eligible Defined Benefit System retired members.

An audit is performed annually on the Fire & Police Members' Benefit Investment Fund and the Fire & Police Members' Self-Directed Investment Fund.

General information about each Fund can be found in the Introductory Section of this annual report. A listing of employers by plan or plan type can be found in the Statistical Section of this report. All data in this annual report, other than the Financial Section which follows, has not been audited by FPPA's outside auditors.

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





## Independent Auditor's Report

To the Board of Directors  
Fire and Police Pension Association of Colorado  
Greenwood Village, Colorado

### Report on the Financial Statements

We have audited the accompanying financial statements of the Fire and Police Members' Benefit Investment Fund (consisting of the Affiliated Local Plans, the Statewide Death and Disability Plan, and the Defined Benefit System) and the Fire and Police Members' Self-Directed Investment Fund (consisting of the Fire and Police Members' Statewide Money Purchase Plan, the Self-Directed Assets for the Affiliated Local and Defined Benefit System Plans, and the Internal Revenue Code 457 Deferred Compensation Plan) of the Fire and Police Pension Association of Colorado (the "Association"), as of and for the year ended December 31, 2017, and the related notes to the 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 opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. 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 entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's 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.

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**Opinion**

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the Fire and Police members' Benefit Investment Fund and the Fire and Police Members' Self-Directed Investment Fund as of December 31, 2017, and the changes in fiduciary net position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

**Other Matters***Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, schedule of annual money-weighted rate of return of pension and OPEB plan investments, schedule of changes in the employers' net pension liability, schedule of employers' contributions, notes to required supplementary information for cost-sharing and single employer plans, schedule of changes in the net OPEB liability for the statewide death and disability plan and the staff healthcare subsidy plan, and the notes to required supplementary information OPEB plans, 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 inquires of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquires, 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.

*Other Information*

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Association's financial statements. The introductory section, other supplementary information, investment section, actuarial section, and statistical section are presented for purposes of additional analysis and are not a required part of the financial statements.

The other supplementary information as identified in the table of contents is the responsibility of management and were derived from and relate 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 other supplementary information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory, investment actuarial and statistical sections 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.

*Report on Summarized Comparative Information*

The financial statements include summarized prior-year comparative information. The financial statements of the Association as of December 31, 2016, were audited by other auditors, whose report dated June 6, 2017, expressed an unmodified opinion on those statements. The summarized comparative information presented herein as of and for the year ended December 31, 2016, is consistent, in all material respects, with the audited financial statements from which it has been derived.

**Other Reporting Required by *Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report dated June 8, 2018 on our consideration of the Association's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Association's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Association's internal control over financial reporting and compliance.



Boise, Idaho  
June 8, 2018

Management's Discussion and Analysis of the Fire & Police Pension Association's (FPPA) financial performance provides an overview of financial activities for the fiscal year ended December 31, 2017. This discussion and analysis is more meaningful when read in conjunction with the FPPA financial statements and accompanying notes to the financial statements. The FPPA actual results, performance and achievements expressed or implied in these statements are subject to changes in interest rates, securities markets, general economic conditions, legislation, regulations, and other factors.

FPPA administers two funds: the Fire & Police Members' Benefit Investment Fund and the Fire & Police Members' Self-Directed Investment Fund ("the Funds"). The Fire & Police Members' Benefit Investment Fund includes the assets of those plans that fall under the complete investment authority of the FPPA Board of Directors. This fund includes the assets of the Defined Benefit System, the Statewide Death & Disability Plan, and numerous separate Local "Old Hire" police and fire plans, and Volunteer Firefighter pension plans. The Defined Benefit System comprises the Statewide Defined Benefit Plan, the Statewide Hybrid Plan, and the Colorado Springs New Hire Pension Plan.

The Fire & Police Members' Self-Directed Investment Fund consists of the assets of plans where members control their account by choosing from various mutual fund options selected by the Self-Directed Plans Committee pursuant to the fund structure approved by the board of directors or other member-selected investment options available through a Self-Directed Brokerage Account administered by FPPA's recordkeeper (Fidelity Investments). The Fire & Police Members' Self-Directed Investment Fund includes the assets in the Fire & Police Members' Statewide Money Purchase Plan and the IRC 457 Deferred Compensation Plan. In addition, the Fire & Police Members' Self-Directed Investment Fund includes assets of certain Deferred Retirement Option Plans within the Defined Benefit System and affiliated Local "Old Hire" pension plans. This fund also includes the Money Purchase Component of the Defined Benefit System - Statewide Hybrid Plan and the Separate Retirement Account assets from eligible Defined Benefit System retired members.

The members of the FPPA Board of Directors serve as the fiduciaries for the Funds and are responsible for the investment of the Funds. They also select the investment options available to self-directed plan members. As fiduciaries, the FPPA Board members are required to discharge their duties in the interest of members and beneficiaries.

## Financial Highlights

Fiduciary Net Position for all plans administered by FPPA increased \$707,143,465 during the calendar year 2017.

<b>Change in Fiduciary Net Position</b>	
Affiliated Local Plans	\$93,920,558
Statewide Death & Disability Plan	42,594,913
Defined Benefit System	
Statewide Defined Benefit Plan	424,911,825
Statewide Hybrid Plan	16,691,809
Colorado Springs New Hire Plan - Fire Component	15,371,532
Colorado Springs New Hire Plan - Police Component	38,117,688
FPPA Staff Healthcare Subsidy Plan	30,482
Fire & Police Members' Statewide Money Purchase Plan	2,314,730
Self-Directed Assets for Affiliated Local and Defined Benefit System Plans	46,448,510
IRC 457 Deferred Compensation Plan	26,741,418
<b>Total Increase in Fiduciary Net Position</b>	<b>\$707,143,465</b>

The Fire & Police Members' Benefit Investment Fund experienced continued positive performance for the year ended December 31, 2017. Global stocks were up approximately 24.32% and US bonds were up approximately 3.54% for the year (compared to 2016, where global stock were up 8.72% along with US bonds being up 2.65% percent).

For the year ended December 31, 2017, the gross rate of return on the Fire & Police Members' Benefit Investment Fund was 15.96 percent, (14.95 percent, net of fees). Performance for the year ended December 31, 2016 was 6.31 percent (5.51 percent, net of fees). The net investment gain for all of the funds, including the Fire & Police Members' Self-Directed Investment Fund administered by FPPA, for the year ended December 31, 2017 was \$692,837,155 as compared to \$246,675,048 for 2016. Overall the investment portfolio continues to face a low return environment. There are no current known facts, conditions or decisions that are expected to have a significant effect on the financial position or results of operations.

#### Net Investment Gain

Affiliated Local Plans	\$214,550,528
Statewide Death & Disability Plan	52,444,244
Defined Benefit System	
Statewide Defined Benefit Plan	298,360,773
Statewide Hybrid Plan	8,121,968
Colorado Springs New Hire Plan - Fire Component	18,450,107
Colorado Springs New Hire Plan - Police Component	40,775,244
FPPA Staff Healthcare Subsidy Plan	34,387
Fire & Police Members' Statewide Money Purchase Plan	1,789,042
Self-Directed Assets for Affiliated Local and Defined Benefit System Plans	37,191,506
IRC 457 Deferred Compensation Plan	21,119,356
<b>Total Net Investment Gain</b>	<b>\$692,837,155</b>

#### Overview of the Financial Statements

The FPPA 2017 fund financial statements, notes to financial statements, required supplementary schedules and other supplementary schedules are prepared in conformity with Governmental Accounting Standards Board (GASB) Statement No. 67, Financial Reporting for Pension Plans. Statement No. 67 focuses on plan financial reporting and changes FPPA's financial statements through required note disclosures, actuarial calculations and schedules. In 2015, FPPA began reporting a net pension liability (NPL) instead of the previously required unfunded actuarial accrued liability (UAAL). The Statewide Death & Disability Plan and FPPA Staff Healthcare Subsidy Plan are reported as Other Post-Employment Benefits (OPEB) plans. In 2017, FPPA began reporting a net OPEB liability instead of the previously required UAAL under GASB Statement No. 74, Financial Reporting for Postemployment Benefits Other Than Pension Plans. FPPA has not changed its funding methodology with the implementation of Statements No. 67 and No. 74.

The management discussion and analysis is intended to serve as an introduction to FPPA's Financial Statements. Below is a short description of the following four components of the Financial Section for FPPA: (1) Fund Financial Statements, (2) Notes to the Financial Statements, (3) Required Supplementary Information, and (4) Other Supplementary Schedules.

**Fund Financial Statements.** There are two financial statements presented for the Funds. The Statement of Fiduciary Net Position is a snapshot of account balances as of December 31, 2017. This statement reflects the net assets available to pay future pension benefits. The Statement of Changes in Fiduciary Net Position reflects all the activities that occurred during the year ended December 31, 2017. This statement shows the impact of those activities as additions and deductions to the Funds.

**Notes to the Financial Statements.** The notes are an integral part of the financial statements and provide additional information that is essential for a full understanding of the data provided in the fund financial statements.

**Required Supplementary Information.** The required supplementary information consists of the following schedules: Schedule of Annual Money-Weighted Return on Pension and OPEB Plan Investments, Schedule of Changes in the Employers' Net Pension Liability, Schedule of Employers' Contributions, Schedule of Changes in the Employers' Net OPEB Liability and Schedule of Employers' Contributions for OPEB Plans.



**Other Supplementary Schedules.** The additional schedules (Fiduciary Net Position by Participating Employer, Payments to Consultants, Schedule of Administration and Investment Expenses) are presented for the purpose of additional analysis.

### Comparative Summary Financial Statements

**Fire & Police Members' Benefit Investment Fund.** The defined benefit plans within this fund provide retirement, survivor and disability benefits to the employees of affiliated employers. Benefits are funded by member, employer and State of Colorado contributions and by earnings on investments.

**Fire & Police Members' Self-Directed Investment Fund.** The defined contribution plan assets are held for the exclusive benefit of the members. Benefits are funded by member and/or employer contributions and by earnings on the investments.

<b>Fire &amp; Police Members' Benefit Investment Fund Fiduciary Net Position</b>	<b>12/31/2017</b>	<b>12/31/2016</b>	<b>% Change</b>
<b>Assets and Deferred Outflows</b>			
Cash and Short Term Investments	\$287,372,773	\$225,582,807	27.39%
Securities Lending Collateral	0	77,397,016	(100.00%)
Total Other Investments	4,667,422,154	4,084,258,668	14.28%
Receivables	53,017,465	17,570,051	201.75%
Other Assets	4,332,657	3,957,706	9.47%
Deferred Outflows of Resources	11,803,974	3,587,365	229.04%
<b>Total Assets and Deferred Outflows</b>	<b>\$5,023,949,023</b>	<b>\$4,412,353,613</b>	<b>13.86%</b>
<b>Liabilities and Deferred Inflows</b>			
Securities Lending Liabilities	\$0	\$77,357,635	(100.00%)
Investment and Other Liabilities	50,864,292	8,438,940	502.73%
Deferred Inflows of Resources	100,190	208,317	0.00%
Net Pension Liability	32,549,920	17,552,907	85.44%
<b>Total Liabilities and Deferred Inflows</b>	<b>\$83,514,402</b>	<b>\$103,557,799</b>	<b>(19.35%)</b>
<b>Fiduciary Net Position Restricted for Pension and Other Post-Employment Benefits</b>	<b>\$4,940,434,621</b>	<b>\$4,308,795,814</b>	<b>14.66%</b>

**Fire & Police Members'****Self-Directed Investment Fund Fiduciary Net Position**

	<b>12/31/2017</b>	<b>12/31/2016</b>	<b>% Change</b>
<b>Assets</b>			
Cash and Short Term Investments	\$162,973	\$161,989	0.61%
Total Other Investments	449,959,612	374,819,565	20.05%
Receivables	2,178,749	1,815,122	20.03%
<b>Fiduciary Net Position Restricted for Pension and Other Post-Employment Benefits</b>	<b>\$452,301,334</b>	<b>\$376,796,676</b>	<b>20.04%</b>

**Fire & Police Members' Benefit Investment Fund Changes in the Fiduciary Net Position**

	<b>12/31/2017</b>	<b>12/31/2016</b>	<b>% Change</b>
<b>Additions</b>			
Employer Contributions	\$107,937,634	\$108,459,923	(0.48%)
Member Contributions	190,030,232	71,090,171	167.31%
Contributions for Service Reinstatement	0	59,172	100.00%
Affiliations (Withdrawals) *	(582,682)	0	100.00%
State Contributions	2,957,415	2,942,988	0.49%
Investment Income	632,737,251	222,974,948	183.77%
Securities Lending Income	61,058	306,093	(80.05%)
<b>Total Additions</b>	<b>\$933,140,908</b>	<b>\$405,833,295</b>	<b>129.93%</b>
<b>Deductions</b>			
Benefit Payments	\$284,981,165	\$274,598,388	3.78%
Refunds of Contributions	2,534,201	3,058,092	(17.13%)
Administrative Expenses	6,275,822	6,536,677	(3.99%)
Pension Expense	7,710,913	2,223,205	246.84%
<b>Total Deductions</b>	<b>\$301,502,101</b>	<b>\$286,416,362</b>	<b>5.27%</b>
<b>Change in Fiduciary Net Position Restricted for Pension and Other Post-Employment Benefits</b>	<b>\$631,638,807</b>	<b>\$119,416,933</b>	<b>428.94%</b>

\* The fiduciary net position of the Fire & Police Members' Benefit Investment Fund decreased by \$582,682 due to the idle funds distribution of Bow Mar Old Hire Police Plan and disaffiliation of Milliken FPD Volunteer Plan during 2017.

<b>Fire &amp; Police Members' Self-Directed Investment Fund Changes in Fiduciary Net Position</b>	<b>12/31/2017</b>	<b>12/31/2016</b>	<b>% Change</b>
<b>Additions</b>			
Employer Contributions	\$3,448,618	\$3,216,216	7.23 %
Member Contributions	44,085,129	41,964,360	5.05 %
Affiliations *	102,265,127		100.00 %
Investment Income/(Loss)	60,099,904	23,700,100	153.59 %
<b>Total Additions</b>	<b>\$209,898,778</b>	<b>\$68,880,676</b>	<b>204.73 %</b>
<b>Deductions</b>			
Refunds of Contributions	\$133,082,501	\$49,206,563	170.46 %
Administrative Expenses	1,311,619	1,321,837	(0.77)%
<b>Total Deductions</b>	<b>\$134,394,120</b>	<b>\$50,528,400</b>	<b>165.98 %</b>
<b>Change in Fiduciary Net Position Restricted for Pension and Other Post-Employment Benefits</b>	<b>\$75,504,658</b>	<b>\$18,352,276</b>	<b>311.42 %</b>

\* The fiduciary net position of the Fire & Police Members' Self-Directed Investment Fund increased by \$102,265,127 due to the reentry affiliations of Thornton Police, Thornton Fire and Westminster Police during 2017.

## Statement of Fiduciary Net Position | December 31, 2017 with Comparative Combined Totals for 2016

	TOTAL MEMBERS' BENEFIT INVESTMENT FUND	TOTAL MEMBERS' SELF-DIRECTED INVESTMENT FUND	COMBINED TOTALS 2017	COMBINED TOTALS 2016
<b>ASSETS</b>				
Cash & Short Term Investments (Note 5)	\$287,372,773	\$162,973	\$287,535,746	\$225,744,796
<b>Investments (Note 5)</b>				
Fixed Income	\$853,972,158		\$853,972,158	\$760,159,795
Global Equity	1,650,203,047		1,650,203,047	1,401,071,123
Equity Long/Short	424,046,552		424,046,552	382,439,478
Real Assets	292,282,622		292,282,622	236,471,123
Real Estate	196,599,541		196,599,541	200,004,785
Absolute Return	463,635,512		463,635,512	383,507,769
Private Capital	608,356,389		608,356,389	570,893,680
Managed Futures	178,326,333		178,326,333	149,710,915
Domestic Equity Funds		115,280,377	115,280,377	90,101,284
International Equity Funds		22,532,735	22,532,735	15,390,927
Balanced Funds		191,056,738	191,056,738	154,941,810
Fixed Income Funds		22,597,147	22,597,147	20,650,694
Money Market & Stable Value Funds		33,159,565	33,159,565	35,638,775
Brokeragelink Funds		65,333,050	65,333,050	58,096,075
Securities Lending Collateral				77,397,016
<b>Total Investments</b>	<b>\$4,667,422,154</b>	<b>\$449,959,612</b>	<b>\$5,117,381,766</b>	<b>\$4,536,475,249</b>
<b>Total Cash and Investments</b>	<b>\$4,954,794,927</b>	<b>\$450,122,585</b>	<b>\$5,404,917,512</b>	<b>\$4,762,220,045</b>
<b>Receivables</b>				
Other	\$41,745	\$1,616,293	\$1,658,038	\$1,447,232
Assets Sold-Pending Trades	41,185,643		41,185,643	9,644,854
Contributions	4,294,745	562,456	4,857,201	3,525,678
Accrued Interest and Dividends	7,495,332		7,495,332	4,767,409
<b>Total Receivables</b>	<b>\$53,017,465</b>	<b>\$2,178,749</b>	<b>\$55,196,214</b>	<b>\$19,385,173</b>
Property and Equipment, at Cost, Net of Accumulated Depreciation/Amortization (Note 8)	\$4,098,802		\$4,098,802	\$3,748,192
Other Assets	233,855		233,855	209,514
<b>DEFERRED OUTFLOWS OF RESOURCES</b>				
Changes in Net Pension Liability (Note 9)	11,803,974		11,803,974	3,587,365
<b>TOTAL ASSETS AND DEFERRED OUTFLOWS</b>	<b>\$5,023,949,023</b>	<b>\$452,301,334</b>	<b>\$5,476,250,357</b>	<b>\$4,789,150,289</b>
<b>LIABILITIES</b>				
<b>Payables</b>				
Accounts, Employee and Participants Payable	\$2,325,967		\$2,325,967	\$2,286,432
For Assets Purchased-Pending Trades	48,538,325		48,538,325	6,152,508
Securities Lending Liabilities (Note 5)				77,357,635
<b>Net Pension Liability (Note 9)</b>	<b>32,549,920</b>		<b>32,549,920</b>	<b>17,552,907</b>
<b>DEFERRED INFLOWS OF RESOURCES</b>				
Changes in Net Pension Liability (Note 9)	100,190		100,190	208,317
<b>TOTAL LIABILITIES AND DEFERRED INFLOWS</b>	<b>\$83,514,402</b>		<b>\$83,514,402</b>	<b>\$103,557,799</b>
<b>FIDUCIARY NET POSITION RESTRICTED FOR PENSION AND OTHER POST-EMPLOYMENT BENEFITS</b>	<b>\$4,940,434,621</b>	<b>\$452,301,334</b>	<b>\$5,392,735,955</b>	<b>\$4,685,592,490</b>

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

## Statement of Changes in Fiduciary Net Position | For the year ended December 31, 2017 with Comparative Combined Totals for 2016

	TOTAL MEMBERS' BENEFIT INVESTMENT FUND	TOTAL MEMBERS' SELF-DIRECTED INVESTMENT FUND	COMBINED TOTALS 2017	COMBINED TOTALS 2016
<b>ADDITIONS</b>				
<b>Contributions</b>				
Employer	\$107,937,634	\$3,448,618	\$111,386,252	\$96,530,959
Member	190,030,232	44,085,129	234,115,361	128,199,711
Contributions for Service Reinstatement				59,172
Affiliations/(Withdrawals)	(582,682)	102,265,127	101,682,445	
State Contributions	2,957,415		2,957,415	2,942,988
<b>Total Contributions</b>	<b>\$300,342,599</b>	<b>\$149,798,874</b>	<b>\$450,141,473</b>	<b>\$227,732,830</b>
<b>Investment Income</b>				
Net Appreciation in Fair Value of Investments	\$592,068,838	\$37,623,625	\$629,692,463	\$209,756,313
Interest	12,435,949	122,948	12,558,897	11,660,387
Dividends	33,010,148	12,797,670	45,807,818	41,225,520
Other Income	39,207,648		39,207,648	17,504,138
Brokerage/Link Income (Loss)		9,555,661	9,555,661	2,665,175
Gain (Loss) on Securities Lending	(39,381)		(39,381)	34,537
<b>Total Investment Income</b>	<b>\$676,683,202</b>	<b>\$60,099,904</b>	<b>\$736,783,106</b>	<b>\$282,846,070</b>
Less Investment Consulting	\$682,900		\$682,900	\$756,225
Less Investment Management Fees	38,887,245		38,887,245	31,361,216
Less Investment Legal Fees	236,959		236,959	325,366
Less Investment Closing Costs	90,675		90,675	55,614
Less FPPA Investment Personnel Services	2,844,633		2,844,633	2,518,564
Less Bank Fees	566,910		566,910	800,632
Less Other Misc. Investment Expenses	636,629		636,629	353,405
<b>Net Investment Income</b>	<b>\$632,737,251</b>	<b>\$60,099,904</b>	<b>\$692,837,155</b>	<b>\$246,675,048</b>
<b>Securities Lending</b>				
Income	\$222,248		\$222,248	\$524,125
Borrowers Rebates	(117,088)		(117,088)	(64,014)
Agent Fees	(44,102)		(44,102)	(154,018)
<b>Net Securities Lending Income</b>	<b>\$61,058</b>		<b>\$61,058</b>	<b>\$306,093</b>
<b>Total Additions</b>	<b>\$933,140,908</b>	<b>\$209,898,778</b>	<b>\$1,143,039,686</b>	<b>\$474,713,971</b>
<b>DEDUCTIONS</b>				
Benefit Payments	\$284,981,165		\$284,981,165	\$274,598,388
Refunds of Contributions (including interest earned)	2,534,201	\$133,082,501	135,616,702	52,264,655
Administrative Costs	6,275,822	1,311,619	7,587,441	7,858,514
Pension Expense	7,710,913		7,710,913	2,223,205
<b>Total Deductions</b>	<b>\$301,502,101</b>	<b>\$134,394,120</b>	<b>\$435,896,221</b>	<b>\$336,944,762</b>
<b>NET INCREASE IN FIDUCIARY NET POSITION</b>	<b>\$631,638,807</b>	<b>\$75,504,658</b>	<b>\$707,143,465</b>	<b>\$137,769,209</b>
<b>FIDUCIARY NET POSITION RESTRICTED FOR PENSION AND OTHER POST-EMPLOYMENT BENEFITS</b>				
<b>BEGINNING OF YEAR</b>	<b>\$4,308,795,814</b>	<b>\$376,796,676</b>	<b>\$4,685,592,490</b>	<b>\$4,547,823,281</b>
<b>END OF YEAR</b>	<b>\$4,940,434,621</b>	<b>\$452,301,334</b>	<b>\$5,392,735,955</b>	<b>\$4,685,592,490</b>

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

## Statement of Fiduciary Net Position | December 31, 2017

	AFFILIATED LOCAL PLANS	STATEWIDE DEATH & DISABILITY	DEFINED BENEFIT SYSTEM			
			STATEWIDE DEFINED BENEFIT PLAN	STATEWIDE HYBRID DB COMPONENT	COLORADO SPRINGS FIRE COMPONENT	COLORADO SPRINGS POLICE COMPONENT
<b>ASSETS</b>						
Cash & Short Term Investments (Note 5)	\$93,422,470	\$23,403,412	\$139,914,581	\$4,050,721	\$8,239,505	\$18,326,498
<b>Investments (Note 5)</b>						
Fixed Income	\$277,619,161	\$69,546,819	\$415,777,581	\$12,037,336	\$24,484,951	\$54,459,991
Global Equity	536,467,121	134,391,235	803,442,390	23,260,768	47,314,353	105,237,673
Equity Long/Short	137,853,965	34,534,017	206,457,609	5,977,233	12,158,194	27,042,534
Real Assets	95,018,620	23,803,266	142,305,063	4,119,928	8,380,280	18,639,611
Real Estate	63,912,856	16,010,912	95,719,375	2,771,208	5,636,870	12,537,656
Absolute Return	150,724,002	37,758,110	225,732,479	6,535,267	13,293,282	29,567,224
Private Capital	197,771,541	49,544,065	296,193,436	8,575,210	17,442,695	38,796,445
Managed Futures	57,972,390	14,522,756	86,822,610	2,513,635	5,112,943	11,372,327
Domestic Equity Funds						
International Equity Funds						
Balanced Funds						
Fixed Income Funds						
Money Market & Stable Value Funds						
Brokeragelink Funds						
Securities Lending Collateral						
<b>Total Investments</b>	<b>\$1,517,339,656</b>	<b>\$380,111,180</b>	<b>\$2,272,450,543</b>	<b>\$65,790,585</b>	<b>\$133,823,568</b>	<b>\$297,653,461</b>
<b>Total Cash and Investments</b>	<b>\$1,610,762,126</b>	<b>\$403,514,592</b>	<b>\$2,412,365,124</b>	<b>\$69,841,306</b>	<b>\$142,063,073</b>	<b>\$315,979,959</b>
<b>Receivables</b>						
Other	\$13,571	\$3,400	\$20,325	\$588	\$1,197	\$2,662
Assets Sold-Pending Trades	13,389,106	3,354,126	20,052,254	580,540	1,180,869	2,626,514
Contributions	757,002	533,429	2,164,585	52,100	297,531	490,098
Accrued Interest and Dividends	2,436,669	610,414	3,649,289	105,652	214,905	477,996
<b>Total Receivables</b>	<b>\$16,596,348</b>	<b>\$4,501,369</b>	<b>\$25,886,453</b>	<b>\$738,880</b>	<b>\$1,694,502</b>	<b>\$3,597,270</b>
Property and Equipment, at Cost, Net of Accumulated Depreciation/Amortization (Note 8)	\$1,332,486	\$333,803	\$1,995,604	\$57,776	\$117,520	\$261,391
Other Assets	76,024	19,045	113,858	3,296	6,705	14,914
<b>DEFERRED OUTFLOWS OF RESOURCES</b>						
Changes in Net Pension Liability (Note 9)	3,837,373	961,306	5,747,058	166,385	338,442	752,770
<b>TOTAL ASSETS AND DEFERRED OUTFLOWS</b>	<b>\$1,632,604,357</b>	<b>\$409,330,115</b>	<b>\$2,446,108,097</b>	<b>\$70,807,643</b>	<b>\$144,220,242</b>	<b>\$320,606,304</b>
<b>LIABILITIES</b>						
<b>Payables</b>						
Accounts, Employee and Participants Payable	\$756,152	\$189,425	\$1,132,455	\$32,786	\$66,690	\$148,333
For Assets Purchased-Pending Trades	15,779,401	3,952,923	23,632,091	684,181	1,391,683	3,095,413
Securities Lending Liabilities (Note 5)						
<b>Net Pension Liability (Note 9)</b>	<b>10,581,705</b>	<b>2,650,840</b>	<b>15,847,737</b>	<b>458,814</b>	<b>933,266</b>	<b>2,075,792</b>
<b>DEFERRED INFLOWS OF RESOURCES</b>						
Changes in Net Pension Liability (Note 9)	32,571	8,159	48,781	1,412	2,873	6,389
<b>TOTAL LIABILITIES AND DEFERRED INFLOWS</b>	<b>\$27,149,829</b>	<b>\$6,801,347</b>	<b>\$40,661,064</b>	<b>\$1,177,193</b>	<b>\$2,394,512</b>	<b>\$5,325,927</b>
<b>FIDUCIARY NET POSITION RESTRICTED FOR PENSION AND OTHER POST-EMPLOYMENT BENEFITS</b>						
	<b>\$1,605,454,528</b>	<b>\$402,528,768</b>	<b>\$2,405,447,033</b>	<b>\$69,630,450</b>	<b>\$141,825,730</b>	<b>\$315,280,377</b>

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

FPPA STAFF HEALTH SUBSIDY	TOTAL MEMBERS' BENEFIT INVESTMENT FUND	MEMBERS' STATEWIDE MONEY PURCHASE	SELF-DIRECTED ASSETS FOR AFFIL. LOCAL & DB SYSTEM	IRC 457 DEFERRED COMPENSATION PLAN	TOTAL MEMBERS' SELF-DIRECTED INVESTMENT FUND	COMBINED TOTALS 2017
\$15,586	\$287,372,773	\$2,262	\$107,134	\$53,577	\$162,973	\$287,535,746
\$46,319	\$853,972,158					\$853,972,158
89,507	1,650,203,047					1,650,203,047
23,000	424,046,552					424,046,552
15,854	292,282,622					292,282,622
10,664	196,599,541					196,599,541
25,148	463,635,512					463,635,512
32,997	608,356,389					608,356,389
9,672	178,326,333					178,326,333
		3,856,821	59,401,635	52,021,921	115,280,377	115,280,377
		796,412	12,811,059	8,925,264	22,532,735	22,532,735
		6,751,306	125,215,293	59,090,139	191,056,738	191,056,738
		589,742	14,625,278	7,382,127	22,597,147	22,597,147
		394,235	27,410,763	5,354,567	33,159,565	33,159,565
		45,136	60,700,871	4,587,043	65,333,050	65,333,050
						—
<b>\$253,161</b>	<b>\$4,667,422,154</b>	<b>\$12,433,652</b>	<b>\$300,164,899</b>	<b>\$137,361,061</b>	<b>\$449,959,612</b>	<b>\$5,117,381,766</b>
<b>\$268,747</b>	<b>\$4,954,794,927</b>	<b>\$12,435,914</b>	<b>\$300,272,033</b>	<b>\$137,414,638</b>	<b>\$450,122,585</b>	<b>\$5,404,917,512</b>
\$2	\$41,745		\$104,997	\$1,511,296	\$1,616,293	\$1,658,038
2,234	41,185,643					41,185,643
	4,294,745	23,809	182,748	355,899	562,456	4,857,201
407	7,495,332					7,495,332
<b>\$2,643</b>	<b>\$53,017,465</b>	<b>\$23,809</b>	<b>\$287,745</b>	<b>\$1,867,195</b>	<b>\$2,178,749</b>	<b>\$55,196,214</b>
\$222	\$4,098,802					\$4,098,802
13	233,855					233,855
640	11,803,974					11,803,974
<b>\$272,265</b>	<b>\$5,023,949,023</b>	<b>\$12,459,723</b>	<b>\$300,559,778</b>	<b>\$139,281,833</b>	<b>\$452,301,334</b>	<b>\$5,476,250,357</b>
\$126	\$2,325,967					\$2,325,967
2,633	48,538,325					48,538,325
						—
1,766	32,549,920					32,549,920
5	100,190					100,190
<b>\$4,530</b>	<b>\$83,514,402</b>					<b>\$83,514,402</b>
<b>\$267,735</b>	<b>\$4,940,434,621</b>	<b>\$12,459,723</b>	<b>\$300,559,778</b>	<b>\$139,281,833</b>	<b>\$452,301,334</b>	<b>\$5,392,735,955</b>

## Statement of Changes in Fiduciary Net Position | For the Year Ended December 31, 2017

	AFFILIATED LOCAL PLANS	STATEWIDE DEATH & DISABILITY	DEFINED BENEFIT SYSTEM			
			STATEWIDE DEFINED BENEFIT PLAN	STATEWIDE HYBRID DB COMPONENT	COLORADO SPRINGS FIRE COMPONENT	COLORADO SPRINGS POLICE COMPONENT
<b>ADDITIONS</b>						
<b>Contributions</b>						
Employer	\$49,272,548		\$44,644,663	\$1,320,687	\$4,227,414	\$8,464,061
Member	158,659	\$20,698,646	156,811,895	8,967,398	1,082,336	2,311,298
Contributions for Service Reinstatement						
Affiliations/(Withdrawals)	(582,682)					
State Contributions	2,957,415					
<b>Total Contributions</b>	<b>\$51,805,940</b>	<b>\$20,698,646</b>	<b>\$201,456,558</b>	<b>\$10,288,085</b>	<b>\$5,309,750</b>	<b>\$10,775,359</b>
<b>Investment Income</b>						
Net Appreciation in Fair Value of Investments	\$200,561,953	\$49,084,587	\$279,350,243	\$7,607,320	\$17,267,657	\$38,164,897
Interest	4,230,581	1,032,766	5,847,816	158,112	363,357	802,642
Dividends	11,188,096	2,736,311	15,570,298	422,622	962,911	2,128,113
Other Income	13,443,294	3,235,375	18,375,334	499,379	1,138,249	2,513,893
Brokerage/Link Income (Loss)						
Loss on Securities Lending	(16,085)	(3,272)	(18,361)	(489)	(635)	(537)
<b>Total Investment Income</b>	<b>\$229,407,839</b>	<b>\$56,085,767</b>	<b>\$319,125,330</b>	<b>\$8,686,944</b>	<b>\$19,731,539</b>	<b>\$43,609,008</b>
Less Investment Consulting	\$230,876	\$56,588	\$322,672	\$8,779	\$19,913	\$44,035
Less Investment Management Fees	13,147,056	3,222,340	18,374,307	499,941	1,133,924	2,507,564
Less Investment Legal Fees	80,111	19,635	111,964	3,046	6,910	15,280
Less Investment Closing Costs	30,656	7,514	42,844	1,166	2,643	5,847
Less FPPA Investment Personnel Services	961,718	235,717	1,344,095	36,571	82,947	183,430
Less Bank Fees	191,662	46,976	267,866	7,288	16,531	36,556
Less Other Misc. Investment Expenses	215,232	52,753	300,809	8,185	18,564	41,052
<b>Net Investment Income</b>	<b>\$214,550,528</b>	<b>\$52,444,244</b>	<b>\$298,360,773</b>	<b>\$8,121,968</b>	<b>\$18,450,107</b>	<b>\$40,775,244</b>
<b>Securities Lending</b>						
Income	\$72,251	\$18,100	\$108,207	\$3,133	\$6,372	\$14,173
Borrowers Rebates	(38,064)	(9,536)	(57,008)	(1,650)	(3,357)	(7,467)
Agent Fees	(14,337)	(3,592)	(21,473)	(622)	(1,264)	(2,812)
<b>Net Securities Lending Income</b>	<b>\$19,850</b>	<b>\$4,972</b>	<b>\$29,726</b>	<b>\$861</b>	<b>\$1,751</b>	<b>\$3,894</b>
<b>Total Additions</b>	<b>\$266,376,318</b>	<b>\$73,147,862</b>	<b>\$499,847,057</b>	<b>\$18,410,914</b>	<b>\$23,761,608</b>	<b>\$51,554,497</b>
<b>DEDUCTIONS</b>						
Benefit Payments	\$168,478,600	\$28,157,074	\$65,977,013	\$1,493,664	\$7,989,856	\$12,877,649
Refunds of Contributions (including interest earned)	140,874		2,187,599	27,870	159,851	18,007
Administrative Costs	1,641,820	1,670,264	2,748,103	67,776	46,806	97,512
Pension Expense	2,194,466	725,611	4,022,517	129,795	193,563	443,641
<b>Total Deductions</b>	<b>\$172,455,760</b>	<b>\$30,552,949</b>	<b>\$74,935,232</b>	<b>\$1,719,105</b>	<b>\$8,390,076</b>	<b>\$13,436,809</b>
<b>NET INCREASE IN FIDUCIARY NET POSITION</b>	<b>\$93,920,558</b>	<b>\$42,594,913</b>	<b>\$424,911,825</b>	<b>\$16,691,809</b>	<b>\$15,371,532</b>	<b>\$38,117,688</b>
<b>FIDUCIARY NET POSITION RESTRICTED FOR PENSION AND OTHER POST-EMPLOYMENT BENEFITS</b>						
<b>BEGINNING OF YEAR</b>	<b>\$1,511,533,970</b>	<b>\$359,933,855</b>	<b>\$1,980,535,208</b>	<b>\$52,938,641</b>	<b>\$126,454,198</b>	<b>\$277,162,689</b>
<b>END OF YEAR</b>	<b>\$1,605,454,528</b>	<b>\$402,528,768</b>	<b>\$2,405,447,033</b>	<b>\$69,630,450</b>	<b>\$141,825,730</b>	<b>\$315,280,377</b>

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



FPPA STAFF HEALTH SUBSIDY	TOTAL MEMBERS' BENEFIT INVESTMENT FUND	MEMBERS' STATEWIDE MONEY PURCHASE	SELF-DIRECTED ASSETS FOR AFFIL. LOCAL & DB SYSTEM	IRC 457 DEFERRED COMPENSATION PLAN	TOTAL MEMBERS' SELF-DIRECTED INVESTMENT FUND	COMBINED TOTALS 2017
\$8,261	\$107,937,634	\$438,454	\$1,624,436	\$1,385,728	\$3,448,618	\$111,386,252
	190,030,232	425,436	33,719,225	9,940,468	44,085,129	234,115,361
						0
	(582,682)		102,265,127		102,265,127	101,682,445
	2,957,415					2,957,415
<b>\$8,261</b>	<b>\$300,342,599</b>	<b>\$863,890</b>	<b>\$137,608,788</b>	<b>\$11,326,196</b>	<b>\$149,798,874</b>	<b>\$450,141,473</b>
\$32,181	\$592,068,838	\$1,341,800	\$20,856,816	\$15,425,009	\$37,623,625	\$629,692,463
675	12,435,949	762	114,730	7,456	122,948	12,558,897
1,797	33,010,148	435,297	7,272,507	5,089,866	12,797,670	45,807,818
2,124	39,207,648					39,207,648
		11,183	8,947,453	597,025	9,555,661	9,555,661
(2)	(39,381)					(39,381)
<b>\$36,775</b>	<b>\$676,683,202</b>	<b>\$1,789,042</b>	<b>\$37,191,506</b>	<b>\$21,119,356</b>	<b>\$60,099,904</b>	<b>\$736,783,106</b>
\$37	\$682,900					\$682,900
2,113	38,887,245					38,887,245
13	236,959					236,959
5	90,675					90,675
155	2,844,633					2,844,633
31	566,910					566,910
34	636,629					636,629
<b>\$34,387</b>	<b>\$632,737,251</b>	<b>\$1,789,042</b>	<b>\$37,191,506</b>	<b>\$21,119,356</b>	<b>\$60,099,904</b>	<b>\$692,837,155</b>
\$12	\$222,248					\$222,248
(6)	(117,088)					(117,088)
(2)	(44,102)					(44,102)
<b>\$4</b>	<b>\$61,058</b>					<b>\$61,058</b>
<b>\$42,652</b>	<b>\$933,140,908</b>	<b>\$2,652,932</b>	<b>\$174,800,294</b>	<b>\$32,445,552</b>	<b>\$209,898,778</b>	<b>\$1,143,039,686</b>
\$7,309	\$284,981,165					\$284,981,165
	2,534,201	304,189	127,314,764	5,463,548	133,082,501	135,616,702
3,541	6,275,822	34,013	1,037,020	240,586	1,311,619	7,587,441
1,320	7,710,913					7,710,913
<b>\$12,170</b>	<b>\$301,502,101</b>	<b>\$338,202</b>	<b>\$128,351,784</b>	<b>\$5,704,134</b>	<b>\$134,394,120</b>	<b>\$435,896,221</b>
<b>\$30,482</b>	<b>\$631,638,807</b>	<b>\$2,314,730</b>	<b>\$46,448,510</b>	<b>\$26,741,418</b>	<b>\$75,504,658</b>	<b>\$707,143,465</b>
<b>\$237,253</b>	<b>\$4,308,795,814</b>	<b>\$10,144,993</b>	<b>\$254,111,268</b>	<b>\$112,540,415</b>	<b>\$376,796,676</b>	<b>\$4,685,592,490</b>
<b>\$267,735</b>	<b>\$4,940,434,621</b>	<b>\$12,459,723</b>	<b>\$300,559,778</b>	<b>\$139,281,833</b>	<b>\$452,301,334</b>	<b>\$5,392,735,955</b>

**NOTE 1 | ORGANIZATION & PLAN DESCRIPTIONS**

The Fire & Police Members' Benefit Investment Fund was established in 1980 pursuant to the Colorado Revised Statutes of 1973, as amended. (The fund was originally named the Fire & Police Members' Benefit Fund; the name was changed to the Fire & Police Members' Benefit Investment Fund as a result of legislation enacted in 2006.) The Fire & Police Members' Self-Directed Investment Fund was created by Colorado House Bill 1059 in 2006. It combined the separate money purchase plan and self-directed plan funds that had been created by prior legislation. The Funds are administered by a nine-member board of directors appointed by the Governor and confirmed by the Senate to serve four-year staggered terms. In 2010, legislation was passed to extend the term of the retired member position of the board to a six-year term. As trustee, the Fire & Police Pension Association of Colorado (FPPA), collects, invests, administers, and disburses monies on behalf of firefighters and police officers in the State of Colorado within the Fire & Police Members' Benefit Investment Fund and the Fire & Police Members' Self-Directed Investment Fund.

The Fire & Police Members' Benefit Investment Fund includes the assets of those plans that fall under the complete investment authority of the FPPA Board of Directors. This fund includes the assets of the Defined Benefit System, affiliated Local "Old Hire" police and fire plans, affiliated Volunteer Firefighter pension plans, and the Statewide Death & Disability plan. The Defined Benefit System comprises the Statewide Defined Benefit Plan, the Statewide Hybrid Plan, and the Colorado Springs New Hire Pension Plan.

The Fire & Police Members' Self-Directed Investment Fund consists of the assets of plans where members control their account by choosing from various mutual fund options selected by the Self-Directed Plans Committee pursuant to the fund structure approved by the board of directors or other member-selected investment options available through a Self-Directed Brokerage Account administered by FPPA's recordkeeper (Fidelity Investments). This fund includes the assets in the Fire & Police Members' Statewide Money Purchase Plan and the IRC 457 Deferred Compensation Plan. In addition, this fund includes assets of certain Deferred Retirement Option Plans within the Defined Benefit System and affiliated Local "Old Hire" pension plans. It also includes the Money Purchase component of the Defined Benefit System – Statewide Hybrid Plan and the Separate Retirement Account assets from eligible Defined Benefit System retired members.

The **Affiliated Local Plans** include defined benefit retirement plans for fire and police employees in the State of Colorado hired before April 8, 1978 (Old Hires), provided that such plans have affiliated with FPPA, and the affiliated Volunteer Firefighter pension plans in the State of Colorado. Collectively, these are agent multiple-employer plans.

The **Statewide Death & Disability Plan** is a cost-sharing multiple-employer defined benefit death and disability plan. This plan is reported as an other post-employment plan (OPEB) based on the criteria established by the Governmental Accounting Standards Board (GASB).

The **Defined Benefit System** comprises the Statewide Defined Benefit Plan, the Statewide Hybrid Plan, and the Colorado Springs New Hire Pension Plan.

The **Statewide Defined Benefit Plan** covers fire and police employees hired in the State of Colorado by affiliated employers on or after April 8, 1978.

The **Statewide Hybrid Plan** became effective January 1, 2004 and provides a combination of defined benefit and money purchase retirement benefits to the Members of those Employers who have either (1) established a local money purchase plan pursuant to C.R.S. § 31-30.5-801 or 31-31-601 or (2) withdrawn into the Statewide Money Purchase Plan pursuant to C.R.S. § 31-31-501 and subsequently elected to participate in the Statewide Hybrid Plan under C.R.S. § 31-31-1101.

The **Colorado Springs New Hire Pension Plan** was formed as of October 1, 2006 from two plans merging into one plan document but with a fire and police component. The Plan covers firefighters and police officers who were hired by the City of Colorado Springs on or after April 8, 1978 but prior to October 1, 2006.

The **FPPA Staff Healthcare Subsidy Plan** provides a post-employment healthcare premium subsidy for FPPA Staff meeting minimum service requirements.

The **Fire & Police Members' Statewide Money Purchase Plan** is a multiple-employer defined contribution plan.

The **Self-Directed Assets for Affiliated Local and Defined Benefit System Plans** include supplemental benefits for the Deferred Retirement Option Plans (DROP), the Money Purchase component for the Statewide Hybrid Plan, and the Separate Retirement Account assets from eligible Defined Benefit System retired members.

The **IRC 457 Deferred Compensation Plan**, created under Internal Revenue Code Section 457, collects amounts deferred by participants of affiliated employers. The assets are held in trust for the exclusive benefit of participants.

In order to facilitate investing and to reduce operating costs, FPPA pools assets within the Fire & Police Members' Benefit Investment Fund for investment purposes. Each month shared revenues (i.e., investment income or loss) and shared operating expenses are allocated to each affiliate and to the statewide plans, based upon each plan's proportionate share of total assets. Any expenses that are incurred by FPPA which are directly related to the administration of a specific plan is paid from that plan's assets. The defined benefit plans' administrative expenses are allocated on a pro-rata share by member count, as of December 31 of the prior year. Assets in the Fire & Police Members' Self-Directed Investment Fund are excluded from this allocation process.

#### **A. Affiliated Local Plans**

##### **1. Plan Description**

This is an agent multiple-employer Public Employee Retirement System. There are 221 local plans affiliated with FPPA as of December 31, 2017. These plans are for the benefit of two distinct groups: 1) fire and police employees of affiliated employers hired prior to April 8, 1978 (Old Hires) and 2) volunteer firefighters of affiliated plans. The Old Hire plans are closed to new entrants as of April 8, 1978. Several volunteer firefighter plans have also chosen to close their plans to new entrants.

The Affiliated Local Plans represent the assets of numerous separate plans that have been pooled for investment purposes. The pension plans (volunteer and paid) represented in the Fire & Police Members' Benefit Investment Fund and the Fire & Police Members' Self-Directed Investment Fund (for Old Hire Deferred Retirement Option Plan (DROP) assets only) have elected to affiliate with FPPA for plan administration and investment purposes only. Each plan has a separate plan document and actuarial valuation and is governed by its own local pension board which has the authority to amend the plan benefits, such as cost-of-living increases, funeral benefits, and others as applicable to each plan.

##### **2. Contributions**

As each affiliated employer has its own plan, there is no uniform amount for either contributions or benefit provisions. There are no paid employees within the Volunteer Firefighter's pension plans and employees do not contribute to their pension plan. The State of Colorado contributes to some of the Affiliated Local Plan Volunteer Firefighters Pension Plans as defined in the Colorado Revised Statutes. Funding for the Local Old Hire Pension Plans is the sole obligation of the employer.

##### **3. Benefit Provisions**

The benefits vary with each Old Hire plan. The member's Normal Retirement Date for several plans is based on the date a member has completed years of credited service, usually twenty to twenty-five years. Most plans require the member to complete twenty to twenty-five years of credited service and attain the age of 50 to 55. The annual Normal Retirement Benefit calculation ranges from 50-75 percent of salary. Several plans offer a lump sum actuarial equivalent benefit. Most Old Hire plans offer a 50-100 percent benefit to the surviving spouse until death or remarriage. Some plans also offer actuarially equivalent post-retirement death benefits. Several Old Hire plans offer a cost-of-living increase to their retirees and beneficiaries. Some only offer an ad-hoc cost-of-living increase. Others offer an escalation benefit based on the rank at which the member retired. Several Old Hire plans allow a member to participate in the Deferred Retirement Option Plan (DROP) after reaching eligibility for retirement. A member continues to work while participating in the DROP, but must terminate employment within a given time frame, generally between three to five years of entry into the DROP.

The benefits also vary for each Volunteer Firefighter plan. Volunteer Firefighter plans Normal Retirement Date is at age 50 with 20 years of service. The plans vary and offer a flat dollar benefit from \$0 - \$1,400 per month. Some volunteer firefighter plans offer a 50 percent benefit to the surviving spouse until death or remarriage. Volunteer Firefighter plans are restricted by statute and cannot offer a cost-of-living increase.

4. Membership

The memberships of these groups as of December 31, 2017, are as follows:

Deferred Retirement Option Plan (DROP) Old Hire Members	3
Retirees and Beneficiaries Currently Receiving Benefits	6,473
Terminated Vested Members Entitled To Benefits But Not Yet Receiving Them	428
Old Hire Members Fully Vested	3
Volunteer Firefighter Members	2,616
<b>Total Members</b>	<b>9,523</b>

**B. Statewide Death & Disability Plan**

1. Plan Description

The Plan is a cost-sharing multiple-employer defined benefit death and disability plan covering full-time employees of substantially all fire and police departments in Colorado. As of August 5, 2003, the Plan may include part-time police and fire employees. Contributions to the Plan are used solely for the payment of death and disability benefits. Employers who are covered by Social Security may elect supplementary coverage by the Plan. The Plan was established in 1980 pursuant to Colorado Revised Statutes and currently has 269 participating employer departments. Included in that number are 6 contributing employers as of December 31, 2017, who are covered by Social Security and have elected supplementary coverage by the Plan. The Plan assets are included in the Fire & Police Members’ Benefit Investment Fund.

Plan benefits provide 24-hour coverage, both on- and off-duty and are available for members not eligible for normal retirement under a defined benefit plan, or members who have not met 25 years of accumulated service and age 55 under a money purchase plan.

In the case of an on-duty death, benefits may be payable to the surviving spouse or dependent children of active members who were eligible to retire, but were still working. Death and disability benefits are free from state and federal taxes in the event that a member’s disability is determined to be the result of an on-duty injury or an occupational disease.

2. Contributions

Prior to 1997, the Plan was primarily funded by the State of Colorado, whose contributions were established by Colorado statute. In 1997 the State made a one-time contribution of \$39,000,000 to fund past and future service costs for all firefighters and police officers hired prior to January 1, 1997. No further State contributions are anticipated.

Members hired on or after January 1, 1997, began contributing 2.4 percent of base salary to this Plan as of January 1, 1997. Contributions may be increased 0.1 percent biennially by the FPPA Board. The contributions increased to 2.7 percent of base salary as of January 1, 2017. This percentage can vary depending on actuarial experience. All contributions are made by members or on behalf of members. The 2.7 percent contribution may be paid entirely by the employer or member, or it may be split between the employer and the member as determined at the local level.

3. Benefits

Benefits are established by Colorado statute.

If a member dies prior to normal retirement eligibility while off-duty, the surviving spouse shall receive a benefit equal to 40 percent of the monthly base salary paid to the member prior to death. An additional 10 percent of base salary is payable if a surviving spouse has two or more dependent children. If there is no surviving spouse, but the member had one or two dependent children, the benefit payable is 40 percent of the member’s monthly base salary. If there is no spouse but three or more dependent children, the benefit equals 50 percent of the member’s monthly base salary.

As of October 15, 2002, if a member dies prior to retirement while on-duty; the surviving spouse shall receive a benefit equal to 70 percent of the member’s monthly base salary regardless of the number of dependent children. If there is no spouse but one or more dependent children living in the member’s household the benefit equals 70 percent of the

member’s monthly base salary. If there are dependent children without a surviving spouse, and they do not live in the household, the benefit is 40 percent for the first child and 15 percent for each additional child, but not greater than 70 percent in total of the member’s monthly base salary. Benefits will be paid to the spouse until death and to dependent children until age 23, death, marriage or other termination of dependency. Benefits may be extended for an incapacitated child.

For purposes of this Plan, a spouse includes a partner in a civil union. These benefits are offset by Money Purchase account balances, Stabilization Reserve Accounts (SRA) and Deferred Retirement Option Plan (DROP) accounts, converted to annuities.

The Plan provides the members with two types of disability: occupational and total.

Occupational Disability means a member is unable to perform their assigned duties due to a medical condition that is expected to last at least 1 year. Assigned duties are those specific tasks or job duties that a member is required to regularly perform. Within the Occupational Disability category, there are two sub-categories: Temporary Occupational Disability and Permanent Occupational Disability.

Temporary Occupational Disability is an occupational disability for which there is prognosis for improvement or recovery through surgical treatment, counseling, medication, therapy or other means.

Permanent Occupational Disability is an occupational disability caused by a condition that is permanent or degenerative and for which there is no prognosis for improvement or recovery through surgical treatment, counseling, medication, therapy or other means.

Total Disability means the member is unable to engage in any substantial gainful activity due to a medically determined physical or mental impairment that may be expected to result in death or that has lasted or is expected to last at least 1 year.

A member who becomes disabled prior to normal retirement eligibility shall be eligible for disability benefits.

If the member is totally disabled, the member shall receive 70 percent of their base salary preceding disability.

If the member is occupationally disabled and their disability is determined to be a permanent occupational disability, the member shall receive 50 percent of their base salary preceding disability regardless of their family status. If the member is occupationally disabled and the disability is determined to be a temporary occupational disability, the member shall receive 40 percent of their base salary preceding disability regardless of their family status for up to five years.

Total disability and permanent occupational disability benefits are offset by the Money Purchase, DROP or SRA balances, converted to annuities. For member’s who also participate in Social Security, disability benefits are reduced by Social Security disability benefits derived from employment as a member, if applicable.

Temporary Occupational Disability benefits are payable for a maximum of five years. Permanent Occupational and Total Disability benefits are payable as long as the member remains disabled.

A benefit adjustment of up to 3 percent may be granted to members and spouses by the Fire & Police Pension Association Board of Directors annually. Totally disabled members and their beneficiaries receive an automatic benefit adjustment each year of 3 percent. The benefit adjustment is effective October 1st. A benefit adjustment may begin after receiving benefits for at least 12 calendar months prior to October 1.

4. Membership

The participating employees (members) of the Plan as of December 31, 2017, are as follows:

Retirees and Beneficiaries Currently Receiving Benefits	1,185
Active Non-Vested Members	12,214
<b>Total Members</b>	<b>13,399</b>

**C. Defined Benefit System – Statewide Defined Benefit Plan****1. Plan Description**

The Plan is a cost-sharing multiple-employer defined benefit pension plan covering substantially all full-time employees of participating fire or police departments in Colorado hired on or after April 8, 1978 (New Hires), provided that they are not already covered by a statutorily exempt plan. As of August 5, 2003, the Plan may include clerical and other personnel from fire districts whose services are auxiliary to fire protection. The Plan became effective January 1, 1980 and currently has 227 participating employer fire and police departments.

Employers once had the option to elect to withdraw from the Plan, but a change in state statutes permitted no further withdrawals after January 1, 1988 unless the employer elects into and is determined to be eligible to participate in the Statewide Money Purchase Plan.

The Plan assets are included in the Fire & Police Members' Benefit Investment Fund and the Fire & Police Members' Self-Directed Investment Fund (for Deferred Retirement Option Plan (DROP) assets and Separate Retirement Account assets from eligible retired members).

**2. Contributions**

Contribution rates for this Plan are set by state statute. Employer contribution rates can only be amended by state statute. Member contribution rates can be amended by state statute or by election of the membership.

Members of this Plan and their employers contributed at the rate of 8.0 percent of base salary, respectively, for a total contribution rate of 16 percent through 2014. In 2014, the members elected to increase the member contribution rate to the Plan beginning in 2015. Member contribution rates will increase 0.5 percent annually through 2022 to a total of 12.0 percent of base salary. Employer contributions will remain at 8.0 percent resulting in a combined contribution rate of 20.0 percent in 2022. In 2017, the total combined member and employer contribution rate was 17.5 percent.

Contributions from members and employers of plans reentering the system are established by resolution and approved by the FPPA Board of Directors. The reentry group had a combined contribution rate of 20.0 percent of base salary through 2014. It is a local decision on who pays the additional 4.0 percent contribution. Per the 2014 member election, the reentry group also had their required member contribution rate increase 0.5 percent annually beginning in 2015 through 2022 for a total combined member and employer contribution rate of 24.0 percent. In 2017, the total combined member and employer contribution rate was 21.5 percent.

The contribution rate for members and employers of affiliated social security employers was 4.0 percent of base salary for a total contribution rate of 8.0 percent through 2014. Per the 2014 member election, the affiliated social security group also had their required member contribution rate increase 0.25 percent annually beginning in 2015 through 2022 to a total of 6.0 percent of base salary. Employer contributions will remain at 4.0 percent resulting in a combined contribution rate of 10.0 percent in 2022. In 2017, the total combined member and employer contribution rate was 8.75 percent.

**3. Benefits**

On May 23, 1983, the Colorado Revised Statutes were amended to allow the Trustees of the Plan to change the retirement age on an annual basis, depending upon the results of the actuarial valuation and other circumstances. The amended statutes state that retirement age should not be less than age 55 or more than age 60. The Trustees subsequently elected to amend the retirement provisions, effective July 1, 1983, such that any member with at least 25 years of service may retire at any time after age 55 and shall be eligible for a normal retirement pension.

The annual normal retirement benefit is 2.0 percent of the average of the member's highest three years' base salary for each year of credited service up to ten years, plus 2.5 percent for each year of service thereafter.

The benefit for members of affiliated social security employers will be reduced by the amount of social security income the member receives annually, calculated as if the social security benefit started as of age 62 for benefits prior to 2007. Beginning January 1, 2007, members of affiliated social security employers will participate in the Fire & Police Pension Association supplemental social security program which will provide benefits equal to 1.0 percent of the average of the member's highest three years base salary for each year of credited service up to ten years plus 1.25 percent for each year thereafter.

Benefits paid to retired members and beneficiaries may be increased annually on October 1. The amount is based on the FPPA Board of Director's discretion and can range from 0 to the higher of 3 percent or the Consumer Price Index. Benefit adjustment may begin once the retired member has been receiving retirement benefits for at least 12 calendar months prior to October 1.

In addition, upon retirement a member may receive additional benefits credited to the member's "Separate Retirement Account" each year after January 1, 1988. Annually, at the discretion of the FPPA Board of Directors, the difference between the combined member/employer contribution and the actuarially determined contribution rate may be allocated to the stabilization reserve account (SRA). If the cost of the Plan exceeds the combined member/employer contribution rate, funds from the SRA may be used to make up the shortfall. Members do not vest in amounts credited to their Separate Retirement Account until retirement or disability. Members of plans reentering the system have a higher contribution rate. As a result their SRA has two components: the standard SRA and the reentry SRA. The reentry SRA cannot be used to subsidize the costs of the non-reentry members. The reentry SRA could be used to correct any deficiencies in the cost of participation of the entry members only. Effective July 1, 2017, the standard Separate Retirement Account contribution rate for members of the Statewide Defined Benefit Plan was set at 0 percent. The reentry Separate Retirement Account contribution rate was set at 3.70 percent.

A member is eligible for an early retirement after completion of 30 years of service or attainment of age 50 with at least five years of credited service. The early retirement benefit equals the normal retirement benefit reduced on an actuarially equivalent basis.

Upon termination, an member may elect to have their member contributions, along with 5.0 percent as interest, returned as a lump sum distribution. Alternatively, a member with at least five years of accredited service may leave contributions with the Plan and remain eligible for a retirement pension at age 55 equal to 2.0 percent of the member's average highest three years' base salary for each year of credited service up to ten years, plus 2.5 percent for each year of service thereafter.

4. Membership

The participating employees (members) of the Plan as of December 31, 2017, are as follows:

Retirees and Beneficiaries Receiving Benefits	1,133
Terminated Members Entitled to Benefits But Not Yet Receiving Such Benefits	1,075
Deferred Retirement Option Plan (DROP) Members	294
Fully Vested Members	425
Partially Vested Members	4,399
Non-Vested Members	2,777
<b>Total Members</b>	<b>10,103</b>

**D. Defined Benefit System – Statewide Hybrid Plan**

1. Plan Description

The Plan was established January 1, 2004 as a cost-sharing multiple-employer pension plan covering full-time firefighters and police officers from departments that elect coverage. The Plan may also cover clerical staff, other fire district personnel whose services are auxiliary to fire protection, or chiefs who have opted out of the Statewide Defined Benefit Plan. The Plan is comprised of two components: Defined Benefit and Money Purchase. With the latter component, members have the option of choosing among various investment options offered by an outside investment manager. The Plan currently has 40 participating employer departments.

Employers may not withdraw from the Plan once affiliated. The Plan assets associated with the Defined Benefit Component are included in the Fire & Police Members' Benefit Investment Fund and the Plan assets associated with the Money Purchase Component and Deferred Retirement Option Plan (DROP) assets are included in the Fire & Police Members' Self-Directed Investment Fund.

2. Contributions

The Plan sets contribution rates at a level that enables all benefits to be fully funded at the retirement date of all members. The members of this Plan and their employers are currently each contributing at the rate determined by the individual employer, however, the rate for both employer and members must be at least 8 percent of the member’s base salary for a total of 16 percent. The amount allocated to the Defined Benefit Component is set annually by the Fire & Police Pension Association Board of Directors. Excess contributions fund the Money Purchase Component of the Plan. The Defined Benefit Component contribution rate from July 1, 2017 through June 30, 2018 is 14.80 percent. The Defined Benefit Component contribution rate from July 1, 2016 through June 30, 2017 was 13.50 percent.

Within the Money Purchase Component, members are always fully vested in their own contributions, as well as the earnings on those contributions. Vesting in the employer’s contributions within the Money Purchase Component, and earnings on those contributions occurs according to the vesting schedule set by the plan document at 20 percent per year after the first year of service and to be 100 percent vested after five years of service or the attainment of age 55. Employer and member contributions are invested in funds at the discretion of members.

A member may elect to make voluntary after-tax contributions to the Money Purchase Component of the Plan. Additional voluntary contributions from the employer are made on a pre-tax basis.

3. Benefits

A member is eligible for a normal retirement pension upon completing 25 years of credited service and attaining age 55.

The annual normal pension of the Defined Benefit Component is 1.5 percent of the average of the member’s highest three years’ base salary for each year of credited service. Benefits paid to retired members and beneficiaries of the Defined Benefit Component may be increased annually on October 1. The amount is based on the FPPA Board of Directors discretion and can range from 0 percent to 3 percent. Benefit adjustment may begin once the retired member has been receiving retirement benefits for as least 12 calendar months prior to October 1.

A member is eligible for early retirement within the Defined Benefit Component after completion of 30 years of service or attainment of age 50 with at least five years of credited service. The early retirement benefit equals the normal retirement benefit reduced on an actuarially equivalent basis.

Upon termination, a member may elect to have their member contributions, along with 5.0 percent as interest, returned as a lump sum distribution from the Defined Benefit Component. Alternatively, a member with at least five years of accredited service may leave contributions with the Defined Benefit Component of the Plan and remain eligible for a retirement pension at age 55 equal to 1.5 percent of the average of the member’s highest three years’ base salary for each year of credited service. In addition, upon termination, the vested account balance within the Money Purchase Component becomes available to the member.

4. Membership

The participating employees (members) of the Plan – Defined Benefit Component and Money Purchase Only Component as of December 31, 2017, are as follows:

Defined Benefit Component: Retirees and Beneficiaries Receiving Benefits	36
Defined Benefit Component: Terminated Members Entitled to Benefit But Not Yet Receiving Such Benefits	35
Money Purchase Component: Retirees and Beneficiaries Receiving Benefits and Terminated Members Entitled to Benefits But Not Yet Receiving Such Benefits	177
Deferred Retirement Option Plan (DROP) Members	6
Fully Vested Member	56
Partially Vested Members	251
Non-Vested Members	32
<b>Total Members</b>	<b>593</b>



**E. Defined Benefit System – Colorado Springs New Hire Pension Plan**

## 1. Plan Description

Two plans from the City of Colorado Springs joined the Fire & Police Pension Association Defined Benefit System as of October 1, 2006. They are now one single-employer defined benefit plan, but with a fire component and a police component for fire and police employees hired by the City of Colorado Springs on or after April 8, 1978 but prior to October 1, 2006. The plan is closed to new members as of October 1, 2006.

Employers may not withdraw from the Fire & Police Pension Association Defined Benefit System once elected. The Plan has had several elections since 2006 to allow members to consider transferring to the Fire & Police Pension Association Defined Benefit System - Statewide Defined Benefit Plan. The Plan assets are included in the Fire & Police Members' Benefit Investment Fund and the Fire & Police Members' Self-Directed Investment Fund (for Deferred Retirement Option Plan (DROP) assets and Separate Retirement Account assets from eligible retired members).

## 2. Contributions

The Plan sets contribution rates at a level that enables all benefits to be fully funded at the retirement date of all members within each component as determined by the actuarial study. Effective January 1, 2017, the Fire Component actuarially determined contribution is \$5,132,890. Of this amount the members of the Plan contribute 10 percent of basic salary and the employer remitted the remainder. Effective January 1, 2018, the Fire Component actuarially determined contribution is \$4,981,787. For the Police Component, the actuarially determined contribution for 2017 was \$10,368,391. Of this amount the members of the plan contributed 8 percent of basic salary and the employer remitted the remainder. Effective January 1, 2018, the actuarially determined contribution is \$9,479,498.

## 3. Benefits

Police Component

A member is eligible for a normal retirement pension at any time after age 50, if the member has at least 25 full years of credited service.

The annual normal pension equals 2.0 percent of the member's final average salary (past 39 payroll periods) for each full year of credited service up to ten years, plus 2.75 percent for each full year thereafter with a maximum benefit of 75 percent. Cost-of-living adjustments begin on October 1 immediately before the retiree turns 60, or 10 years after benefits payment commence, whichever is earlier. The amount of the cost-of-living adjustment cannot exceed 3.0 percent per year subject to limitations linked to the consumer price index.

In addition, upon retirement a member may receive additional benefits credited to the member's Separate Retirement Account. These are attributable to contributions in excess of the actuarially determined pension cost and any earnings or losses thereon. Members do not vest in amounts credited to their account until retirement and the Plan may use such stabilization reserve amounts to reduce pension cost in the event such cost exceeds contributions. Effective January 1, 2017, the Separate Retirement Account contribution rate for members of the Police Component was set at 0 percent. This rate will remain the same for calendar year 2018.

A member is eligible for an early retirement benefit after completion of 20 years of service and attainment of age 45. The early retirement benefit is reduced by 7.5 percent for each year that the member is less than age 50.

Upon termination, a member may elect to have all contributions, along with 5 percent per annum, as interest, returned as a lump sum distribution. Alternatively, a member with at least 10 years of accredited service may leave contributions with the Plan and remain eligible for a retirement pension at age 50 equal to 2.0 percent of the member's final average salary (past 39 payroll periods) for each full year of credited service up to ten years plus 2.75 percent for each full year thereafter with a maximum benefit of 75 percent.

Fire Component

A member is eligible for a normal retirement pension at any time after age 55, if the member has at least 25 years of service.

The annual normal pension is 2.0 percent of the member's final average salary (past 39 payroll periods) for each full year of credited service up to ten years plus 2.85 percent for each full year thereafter with a maximum benefit of 77 percent. Cost-of-living adjustments begin on October 1 immediately before the retired firefighter turns 65 or 10 years

after benefits payment commence, whichever is earlier. The amount of the cost-of-living adjustment cannot exceed 3.0 percent per year subject to limitations linked to the consumer price index.

In addition, upon retirement a member may receive additional benefits credited to the member’s Separate Retirement Account. These are attributable to contributions in excess of the actuarially determined pension cost and any earnings or losses thereon. Members do not vest in amounts credited to their account until retirement and the Plan may use such stabilization reserve amounts to reduce pension cost in the event such cost exceeds contributions. Effective January 1, 2017, the Separate Retirement Account contribution rate for members of the Fire Component was set at 0 percent. This rate will remain the same for calendar year 2018.

A member is eligible for an early retirement benefit at age 50 and after completion of 20 years of service. The early retirement benefit is reduced by 4.615 percent for each year that the member is less than age 55.

Upon termination, a member may elect to have all contributions, along with 5 percent per annum, as interest, returned as a lump sum distribution. Alternatively, a member with at least 10 years of accredited service may leave contributions with the Plan and remain eligible for a retirement pension at age 55 equal to 2.0 percent of the member’s final average salary (past 39 payroll periods) for each full year of credited service up to ten years plus 2.85 percent for each full year thereafter with a maximum benefit of 77 percent.

4. Membership

The participating employees (members) of the Plan as of December 31, 2017, are as follows:

Retirees and Beneficiaries Receiving Benefits	372
Terminated Members Entitled to Benefits But Not Yet Receiving Such Benefits	33
Deferred Retirement Option Plan (DROP) Members	101
Fully Vested Members	45
Partially Vested Members	341
Non-Vested Members	0
<b>Total Members</b>	<b>892</b>

**F. FPPA Staff Healthcare Subsidy Plan**

1. Plan Description

FPPA administers a single-employer defined benefit healthcare plan (FPPA Staff Healthcare Subsidy Plan). The plan provides a healthcare premium subsidy to all full time employees who leave FPPA and have completed at least ten years of service with the FPPA. As of December 31, 2017, there are 53 total active members with 16 active employees meeting the eligibility requirements. In addition, there are 4 inactive vested employees not yet receiving benefits and 5 retirees receiving a benefit. The program began in March 1993.

2. Contributions and Benefit Provisions

FPPA provides a health care premium subsidy to eligible retired staff that are enrolled in a health care program (known as PERACare). The subsidy period is limited to the number of years actually worked at FPPA and further limited to the maximum subsidy paid by the Public Employees Retirement Association of Colorado (PERA). The amount of assistance is prorated for years of service less than 20. The subsidy is \$11.50 per month for each year of PERA covered service. This amount decreases to \$5.75 per month for each year of PERA covered service when the beneficiary becomes Medicare eligible. Currently, the maximum monthly subsidy paid by PERA is \$230 for pre-Medicare premiums and \$115 for Medicare-covered premiums. The PERA subsidy can be increased by an act of the Colorado General Assembly. The PERA retiree health plan does not issue a publicly available financial report.

Contributions to the FPPA Staff Healthcare Subsidy Plan are made solely by the Employer. Employees do not contribute to the Plan.

**G. Fire & Police Members’ Statewide Money Purchase Plan**

1. Plan Description

The Plan is a multiple-employer defined contribution (money purchase) pension fund covering full-time employees of participating fire or police districts in Colorado. As of August 1, 2003, the Plan may include part-time police and fire employees. The Plan may also include clerical or other personnel from fire districts whose services are auxiliary to fire protection.

The Fire & Police Members’ Statewide Money Purchase Plan became effective on January 1, 1995. Participants can choose from various investments selected by the Self-Directed Plans Committee pursuant to the fund structure approved by the board of directors, as well as mutual funds or other investments offered through a Self-Directed Brokerage Account. There were 48 contributing employer departments as of December 31, 2017. The Plan assets are included in the Fire & Police Members’ Self-Directed Investment Fund.

2. Contributions and Vesting

Contributions to the Plan are calculated as a percentage of the member’s base salary, which is specified by state statute. Current participants contribute 8.0 percent of base salary, which is matched by the employer. Members are always fully vested in their own contributions, and the earnings on those contributions. Vesting in the employer’s contributions and earnings on those contributions occurs according to the vesting schedule set by state statute at 20 percent per year after the first year of service to be 100 percent vested after 5 years of service. Employer and member contributions are invested in funds at the discretion of members.

3. Membership

The participating employees (members) of the Plan as of December 31, 2017, are as follows:

Retirees and Beneficiaries Receiving Benefits and Terminated Members Entitled to Benefit But Not Yet Receiving Such Benefits	158
Fully Vested Members	32
Partially Vested Members	61
Non-Vested Members	25
<b>Total Members</b>	<b>276</b>

**H. Self-Directed Assets for the Affiliated Local and Defined Benefit System Plans**

1. Plan Description

These defined contribution accounts consist of the assets of plans where members control their account by choosing from various investment options selected by the Self-Directed Plans Committee pursuant to the fund structure approved by the board of directors, as well as mutual funds or other investments offered through a Self-Directed Brokerage Account. The members in this group are in the defined benefit plans described above within Note 1.

The Deferred Retirement Option Plan (DROP) assets which fund a supplemental benefit within the Local Old Hire and Defined Benefit System Plans are included in the Fire & Police Members’ Self-Directed Investment Fund. In general, the DROP program allows a member to elect to participate in the supplemental benefit after reaching eligibility for normal retirement (and in some cases, early or vested retirement). A member can continue to work while participating in the DROP, but must terminate employment within 5 years of entry into the DROP. The member’s percentage of retirement benefit is frozen at the time of entry into the DROP. The monthly payments that begin at entry into the DROP are accumulated until the member terminates service, at which time the DROP accumulated benefits can be paid as a lump sum, if desired.

Also included is the money purchase component for the Defined Benefit System – Statewide Hybrid Plan. The Plan is described above in Note 1, Section D.

The Separate Retirement Account assets from eligible Defined Benefit System retired members are included in the Fire & Police Members’ Self-Directed Investment Fund. The benefits are described above in Note 1, Sections C and E.

2. Contributions and Vesting

Within the DROP programs, the member continues contributing at the rate described in each plan, which is credited to the DROP. The member is vested 100 percent in their DROP account. Total DROP assets are \$117,642,052 as of December 31, 2017.

The Defined Benefit System – Statewide Hybrid Plan contributions and vesting are described above in Note 1, Section D.

The Separate Retirement Accounts within the Defined Benefit System are described above in Note 1, Section C and E.

3. Membership

Membership is listed within the defined benefit plans described above in Note 1.

## NOTE 2 | SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

### A. Basis of Accounting

FPPA follows the accounting principles and reporting guidelines as set forth by the Governmental Accounting Standards Board. The financial statements are prepared using the accrual basis of accounting and reflect the overall operations of FPPA. Member and employer contributions are recognized in the period in which the contributions are due, and benefits and refunds are recognized when payable in accordance with the terms of each plan.

### B. Reporting Entity

The Governmental Accounting Standards Board has specified the criteria that define a governmental entity for financial reporting purposes. FPPA has considered the possibility of inclusion of additional entities in its comprehensive annual financial report. The definition of the reporting entity is based primarily on financial accountability.

FPPA would be financially accountable for an outside entity if it appointed a voting majority of the organization's governing body and could impose its will on that organization. The same would hold true if FPPA might potentially accrue benefits or incur specific financial burdens on FPPA from an outside entity. Finally, FPPA may be financially accountable for governmental organizations that are fiscally dependent upon it.

Based upon the application of the above criteria, FPPA has no includable entities. In addition, FPPA is not included in the financial statements of any other entity.

### C. Investments and Investment Income & Expenses

Investments are carried at fair value using quoted market prices, with the following exceptions:

1. Private fund investments are recorded at estimated fair value based on valuation of the underlying investments as reported by the general partner via the most recent capital account statements. Reported management fees for private fund investments do not include performance fees, which can generally range from 10-20 percent of a fund's earnings. Performance fees are in the nature of a profit-sharing arrangement and are not considered by management to be a pension expense. FPPA will analyze public market performance and utilize discussions with the general partners to approximate an aggregate change in year-end valuations of its private fund investments. The aggregate change in valuations applied to the 2017 financial statements was a positive \$26,940,945.
2. Hedge funds are valued based upon net asset values provided by each hedge fund's third-party administrator. Reported management fees for hedge funds do not include performance fees, which can generally range from 10-20 percent of a fund's earnings. Performance fees are in the nature of a profit-sharing arrangement and are not considered by management to be a pension expense.

Within the Fire & Police Members' Self-Directed Investment Fund, fair value of the Stable Value Funds are determined by the Investment Manager of the Fund and are based on the contract value of the investment adjusted for interest earned and accrued expenses.

Investment transactions are accounted for on the trade date.

Short term investments refer to all investments with a maturity of less than one year, including short term investment funds, repurchase agreements, commercial paper, certificates of deposit, treasury bills, and government agency issues.

Dividend income is recorded on the ex-dividend date. Interest income is accounted for using the accrual method of accounting.

Expenses directly associated with investment management, operations and servicing have been included as 'FPPA Investment Personnel Services' in the Statement of Changes in Fiduciary Net Position. The Schedule of Administrative and Investment Expenses provides a listing of investment expenses by type.

**D. Cash and Short Term Investments**

Cash and short term investments consist of money market funds, cash and cash equivalents held by money managers, certificates of deposit, short term fixed income securities with maturity of 12 months or less, and demand deposits.

**E. Property and Equipment**

FPPA has a \$5,000 capitalization threshold for tangible assets. The capitalization threshold for intangible assets, specifically internal use computer software, is \$100,000. Property and equipment are stated at cost, less any write-downs for impairment in value, and are depreciated/amortized using the straight-line method over estimated lives as follows:

Computer and Office Equipment	3 - 5 years
Vehicles	5 years
Furniture	10 years
Building and Improvements	5 - 30 years
Tenant Improvements	life of lease
Internal Use Computer Software	7 years

**F. Income Taxes**

FPPA is exempt from federal income taxes under Section 115 of the Internal Revenue Code.

**G. Refunds**

For defined benefit plans, refunds represent a return of member or employer contributions from the plan. For defined benefit system members, refunds are lump sum distributions to terminated members of their member contributions plus interest, as described above in Note 1. For Affiliated Local Plans, refunds are directed by the local plan board as payments to reimburse the employer or made on behalf of an employer as payment of plan related expenses.

For defined contribution plans, refunds represent distributions to members equal to all or a portion of their member account balances comprised of member and employer contributions and investment earnings or losses.

**H. FPPA Employee Retirement Plan**

FPPA participates in the State Division Trust Fund (SDTF), a cost-sharing multiple-employer defined benefit pension fund administered by the Public Employees' Retirement Association of Colorado. The net pension liability, deferred outflows of resources and deferred inflows of resources related to pensions, pension expense, information about the fiduciary net position and additions to/deductions from the fiduciary net position of the SDTF have been determined using the economic resources measurement focus and the accrual basis of accounting. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

**I. Estimates**

The preparation of the financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Actual results could differ from these estimates. Actuarially determined future benefit payments require the use of significant estimates. FPPA believes that the techniques and assumptions used in establishing these estimates are appropriate.

**J. Allocation**

Investment related expenses are allocated to each Plan according to its proportionate share of total assets. Other administrative expenses are allocated to each Plan according to its proportionate share of total member headcount. If an expense is determined to be attributable to one particular or several different Plans, then that expense is allocated only to those attributable Plans, rather than being allocated to all Plans as described above. In the current year, Plan administration

costs are included in the Net Increase in Fiduciary Net Position Available of the Fire & Police Members' Benefit Investment Fund.

**K. New Accounting Pronouncements**

In June 2015, the GASB issued Statement No. 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions. The statement addresses accounting and financial reporting for other post-employment benefits that are provided to the employees of state and local governmental employers. Statement No. 75 establishes standards for recognizing and measuring liabilities, deferred outflows of resources, deferred inflows of resources, and expenses related to OPEB in the basic financial statements, in addition to requiring more extensive note disclosures and required supplementary information. This standard is effective for financial statements for fiscal years beginning after June 15, 2017. Management has evaluated the impact of the new standard and expects to have increased footnote disclosure when implemented for the 2018 annual report.

GASB Statement No. 85, Omnibus 2017, was issued March 2017. This statement addresses practice issues that have been identified during implementation and application of certain GASB statements. Topics include issues related to blending component units, goodwill, fair value measurement and application, and postemployment benefits (pensions and OPEB). The effective date for this standard is reporting periods beginning after June 15, 2017. FPPA is currently evaluating this statement with initial implementation planned for the 2018 annual report.

**NOTE 3 | CHANGE IN ACCOUNTING POLICY**

GASB Statement No. 74, Financial Reporting for Postemployment Benefits Other Than Pension Plans, was adopted during the year ended December 31, 2017. The statement establishes new accounting and financial reporting requirements for governments whose employees are provided with other post-employment benefits (OPEB), as well as for certain nonemployer governments that have a legal obligation to provide financial support for OPEB provided to the employees of other entities. The requirements for Statement No. 74 require changes in presentation of financial statements, notes to financial statements, and required supplementary information. Significant changes include the elimination of certain actuarial disclosures related to plan funding status, the disclosure of the annual money-weighted rate of return on investments and require additional footnote disclosures and required supplementary information.

The additional footnote disclosures and required supplementary information for OPEB plans impact the Statewide Death & Disability Plan and the FPPA Staff Healthcare Subsidy Plan. These additions include an actuarial calculation of total and net OPEB liability and comprehensive footnote disclosure regarding the OPEB liability, the sensitivity of the net OPEB liability to the discount rate and additional investment activity disclosures.

The implementation of Statement No. 74 resulted in reporting all contributions to the Statewide Death & Disability Plan as member contributions as they are made by or on behalf of members. The 2016 contributions reported as employer contributions of \$15,145,180 were reclassified to conform to the current year presentation as member contributions on the Statement of Changes in Fiduciary Net Position. The implementation did not significantly impact the accounting for receivable and investment balances.

**NOTE 4 | NET PENSION LIABILITY FOR COST-SHARING AND SINGLE EMPLOYER PLANS****A. Net Pension Liability**

<b>Defined Benefit System</b>	<b>Total Pension Liability</b>	<b>Plan Fiduciary Net Position *</b>	<b>Employers' Net Pension Liability (Asset)</b>	<b>Plan Fiduciary Net Position as a Percentage of the Total Pension Liability</b>
Statewide Defined Benefit Plan	\$2,285,984,033	\$2,413,276,447	\$(127,292,414)	105.57%
Statewide Hybrid Plan – Defined Benefit Component	53,776,339	69,872,191	(16,095,852)	129.93%
Colorado Springs New Hire Pension Plan – Fire Component	168,928,617	142,035,779	26,892,838	84.08%
Colorado Springs New Hire Pension Plan – Police Component	346,772,188	315,606,098	31,166,090	91.01%
<b>Total</b>	<b>\$2,855,461,177</b>	<b>\$2,940,790,515</b>	<b>\$(85,329,338)</b>	<b>102.99%</b>

*\*The Plan Fiduciary Net Position used to calculate the Net Pension Liability is the net invested plan assets as of December 31, 2017. It does not include the impact of contributions not received during 2017 and the net pension liability associated with the FPPA Staff participation in the Public Employees' Retirement Association of Colorado pension plan further described in Note 9, FPPA Employee Retirement Plan.*

The net pension liability (i.e., the plan's liability determined in accordance with Governmental Accounting Standards Board (GASB) Statement No. 67, Financial Reporting for Pension Plans, less the fiduciary net position) as of December 31, 2017, is shown above. Actuarial valuation of the ongoing plans involves estimates of the reported amounts and assumptions about probability of occurrence of events far into the future. Examples include assumptions about future employment mortality and future salary increases. Amounts determined regarding the net pension liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The last experience study was performed in 2015 and the changes in assumptions are included in the totals presented in table above. The Schedule of Employers' Net Pension Liability presents multi-year trend information about whether the plan fiduciary net positions are increasing or decreasing over time relative to the total pension liability. These schedules are presented in the Required Supplementary Information section. The Total Pension Liability as of December 31, 2017, is based on the results of the most recent actuarial valuation date and rolled-forward using generally accepted actuarial procedures.

**B. Summary of Actuarial Assumptions**

A summary of the actuarial assumptions as of the latest actuarial valuation is shown below.

	Defined Benefit System		
	Statewide Defined Benefit Plan	Statewide Hybrid Plan - Defined Benefit Component	Colorado Springs New Hire Pension Plan - Fire and Police Components
Valuation Date	January 1, 2017	January 1, 2017	January 1, 2017
Actuarial Method	Entry Age Normal	Entry Age Normal	Entry Age Normal
Amortization Method	Level % of Payroll, Open	Level % of Payroll, Open	Level Dollar, Closed
Amortization Period	30 Years	30 Years	21 Years, Beginning January 1, 2017
Asset Valuation Method	5-Year Smoothed Fair Value	5-Year Smoothed Fair Value	5-Year Smoothed Fair Value
Actuarial Assumptions:			
Investment Rate of Return*	7.50%	7.50%	7.50%
Projected Salary Increases*	4.0% - 14.0%	4.0% - 14.0%	4.0% - 14.0%
Cost of Living Adjustment (COLA)	0.00%	0.00%	2.4% (Fire Component) 2.6% (Police Component)
*Includes inflation at	2.50%	2.50%	2.50%

The post-retirement mortality tables for non-disabled retirees is a blend of the Annuitant and Employee RP-2014 generational mortality tables with blue collar adjustment, projected with Scale BB. The occupationally disabled post-retirement mortality assumption uses the same table as used for healthy annuitants, except there is a three year set-forward, meaning a disabled member age 70 will be valued as if they were a 73 year old healthy retiree. The totally disabled post-retirement mortality assumption uses the RP-2014 generational mortality tables for disabled annuitants, except an additional provision to apply a minimum 3 percent mortality probability to males and 2 percent mortality probability for females, is included to reflect substantial impairment for this population. The pre-retirement non-duty mortality tables are adjusted to 55% of the RP-2014 mortality tables for active employees. The on-duty mortality rate is 0.00020.

**C. Target Allocations**

Asset Class	Target Allocation	Long Term Expected Rate of Return
Global Equity	37%	8.33%
Equity Long/Short	9%	7.15%
Illiquid Alternatives	24%	9.70%
Fixed Income	15%	3.00%
Absolute Return	9%	6.46%
Managed Futures	4%	6.85%
Cash	2%	2.26%
<b>Total</b>	<b>100%</b>	

The long-term expected rate of return on pension plan investments was determined using a building-block method 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. Best estimates of arithmetic real rates of return for each major asset class included in the Plans target asset allocation as of December 31, 2017, are summarized in the above table.



The discount rate used to measure the total pension liability was 7.50 percent. The projection of cash flows used to determine the discount rate assumed that contributions from participating employers will be made based on the actuarially determined rates based on the board's funding policy, which establishes the contractually required rates under Colorado statutes. Based on those assumptions, the Plan fiduciary net position was projected to be available to make all the 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.

#### D. Changes in Discount Rates

Defined Benefit System	1.00% Decrease *	Current Discount Rate *	1.00% Increase *
Statewide Defined Benefit Plan	\$178,991,159	\$(127,292,414)	\$(381,358,172)
Statewide Hybrid Plan - Defined Benefit Component	(9,527,507)	(16,095,852)	(21,549,928)
Colorado Springs New Hire Pension Plan - Fire Component	49,726,099	26,892,838	8,147,084
Colorado Springs New Hire Pension Plan - Police Component	82,518,850	31,166,090	(9,591,953)
<b>Total</b>	<b>\$301,708,601</b>	<b>\$(85,329,338)</b>	<b>\$(404,352,969)</b>

\* Both the long-term rate of return and the resulting single discount rate used were 7.50 percent.

In accordance with GASB Statement No. 67 regarding the disclosure of the sensitivity of the net pension liability to changes in the discount rate, the above table presents the net pension liability of the participating employers calculated using the discount rate of 7.50 percent, as well as what the employers' net pension liability would be if it were calculated using a discount rate that is 1.00 percent lower (6.50 percent) or 1.00 percent higher (8.50 percent) than the current rate.

#### NOTE 5 | DEPOSITS AND PENSION & OPEB PLAN INVESTMENTS

Under Colorado statutes, FPPA, as trustee of the Fire & Police Members' Benefit Investment Fund, has complete discretionary authority to invest and reinvest funds of the Fire & Police Members' Benefit Investment Fund, subject to the prudent investor rule.

FPPA has established a statement of investment objectives and policies for managing and monitoring the Fire & Police Members' Benefit Investment Fund. The investment objective for the Fire & Police Members' Benefit Investment Fund is to balance and prudently manage the investment needs (risk and return) of all plans participating in the Fund.

The investment policy also defines the fiduciaries' responsibilities with respect to the Fire & Police Members' Benefit Investment Fund, their investment authority under the prudent investor rule, the level of acceptable risk for investments, statutory asset allocation restrictions, investment performance objectives, and guidelines within which outside investment managers may operate.

FPPA utilizes an asset liability study as its primary process to establish the overall risk tolerance for the Fund. In establishing Investment Allocation Policy Targets, the board considers the historical and expected risks and correlations of investment classes in creating a portfolio which reduces risk through investment diversification. The FPPA Board conducts a formal asset liability study and investment allocation review at least every 2 years.

The FPPA Board establishes and continually updates interim investment allocation targets. Beginning in June 2017, the following investment allocation targets were in effect: global equity, 37 percent; equity long/short, 9 percent; fixed income and cash, 17 percent; absolute return, 9 percent; managed futures, 4 percent; and illiquid alternatives, 24 percent. At the end 2016 and through June 2017, the following interim investment allocation targets were in effect: global equity, 36 percent; equity long/short, 10 percent; fixed income and cash, 17 percent; absolute return, 10 percent; managed futures, 4 percent; and illiquid alternatives, 23 percent. There were no significant investment policy changes in 2017 other than the above changes in allocation targets.

**A. Cash Deposits and Short Term Investments**

Cash deposits and short term investments represent both operating cash accounts held by banks and investment cash on deposit with the investment custodian. FPPA considers fixed income securities with a maturity of 12 months or less to be short term investments. The table below presents FPPA combined total deposits and short term investments as of December 31, 2017.

The table below presents FPPA combined total deposits and short term investments as of December 31, 2017.

Deposits with banks	\$29,945,631
Short Term Investments (maturity of 12 months or less)	257,590,115
<b>Total Deposits and Short Term Investments</b>	<b>\$287,535,746</b>

**B. Pension & OPEB Plan Cash and Investments**

The assets of the Fire & Police Members' Self-Directed Investment Fund are invested in commingled mutual fund investment vehicles. These investments at December 31, 2017 are summarized in the following table:

Cash and Short Term Investments	\$162,973
Investments	
Domestic Equity Funds	\$115,280,377
International Equity Funds	22,532,735
Balanced Funds	191,056,738
Fixed Income Funds	22,597,147
Money Market & Stable Value Funds	33,159,565
Brokeragelink Funds	65,333,050
Total Investments	\$449,959,612
<b>Total Cash and Investments</b>	<b>\$450,122,585</b>

The investments reflected on the Statement of Fiduciary Net Position for the Fire & Police Members' Benefit Investment Fund at December 31, 2017 are summarized in the following table:

Cash and Short Term Investments	\$287,372,773
Investments	
Fixed Income	\$853,972,158
Global Equity	1,650,203,047
Equity Long/Short	424,046,552
Real Assets	292,282,622
Real Estate	196,599,541
Absolute Return	463,635,512
Private Capital	608,356,389
Managed Futures	178,326,333
Securities Lending Collateral	
Total Investments	\$4,667,422,154
<b>Total Cash and Investments</b>	<b>\$4,954,794,927</b>

The annual money-weighted rate of return for the Fire & Police Members' Benefit Investment Fund was 14.95 percent for 2017. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

**C. Fair Value Measurement**

The Funds categorize their fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset and give the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (level 1 measurements) and the lowest priority to unobservable inputs (level 3 measurements).

**Level 1** – Unadjusted quoted prices for identical instruments in active markets.

**Level 2** – Quoted prices for similar instruments in active markets; quoted prices for identical or similar instruments in markets that are not active; and model-derived valuations in which all significant inputs are observable.

**Level 3** – Valuations derived from valuation techniques in which significant inputs are unobservable.

Investments that are measured at fair value using the net asset value per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy.

The categorization of investments within the hierarchy is based upon the pricing transparency of the instrument and should not be perceived as the particular investment's risk.

In instances where inputs used to measure fair value fall into different levels in the fair value hierarchy, fair value measurements in their entirety are categorized based on the lowest level input that is significant to the valuation. The Funds assessment of the significance of particular inputs to these fair value measurements requires judgment and considers factors specific to each asset or liability. The table below shows the fair value leveling of the investments for the Funds.

	Fair Value as of 12/31/2017	Fair Value Measures Using	
		Quoted Prices in Active Markets Using Level 1	Significant Other Observable Inputs Level 2
<b>Fire &amp; Police Members' Benefit Investment Fund</b>			
<b>Investments Measured by Fair Value Level</b>			
<b>ASSETS</b>			
Short-Term Securities			
Short-Term	\$20,100,410	\$15,399,389	\$4,701,021
STIF	196,058,369	196,058,369	
<b>Total Short-Term Securities</b>	<b>\$216,158,779</b>	<b>\$211,457,758</b>	<b>\$4,701,021</b>
Global Equity			
U.S. Common Stocks	\$749,810,690	\$749,810,690	
Foreign Stocks	629,722,866	629,722,866	
Preferred Stocks	3,696,956	3,696,956	
<b>Total Global Equity</b>	<b>\$1,383,230,512</b>	<b>\$1,383,230,512</b>	
Fixed Income			
Asset Backed Securities	\$16,962,989		\$16,962,989
Corporate Bonds	127,032,002		127,032,002
Government & Agency	150,318,627	\$145,682,548	4,636,079
Mortgages-Agency	36,849,198		36,849,198
Mortgages-Non-Agency	12,662,526		12,662,526
International Bonds	36,121,032		36,121,032
Revenue Bonds	2,187,869		2,187,869
TIPS	135,964	135,964	
Private Placements	87,020,362		87,020,362
Preferred Stock	6,751,838	3,655,817	3,096,021
<b>Total Fixed Income</b>	<b>\$476,042,407</b>	<b>\$149,474,329</b>	<b>\$326,568,078</b>
<b>Total Investment Assets</b>	<b>\$2,075,431,698</b>	<b>\$1,744,162,599</b>	<b>\$331,269,099</b>
<b>DERIVATIVES</b>			
Futures Contracts	\$872,202	\$872,202	
Options Contracts	55,361		\$55,361
Swaps	4,319,520		4,319,520
<b>Total Derivatives</b>	<b>\$5,247,083</b>	<b>\$872,202</b>	<b>\$4,374,881</b>
<b>INVESTMENTS MEASURED AT THE NET ASSET VALUE (NAV)</b>			
Commingled Global Equity	\$266,035,437		
Commingled Fixed Income	373,619,766		
Absolute Return	463,635,512		
Equity Long/Short	424,046,552		
Managed Futures	178,326,333		
Private Capital	608,356,389		
Real Assets	292,282,622		
Real Estate	196,599,541		
<b>Total Investments Measured at the NAV</b>	<b>\$2,802,902,152</b>		
<b>OTHER INVESTMENTS</b>			
Cash	\$71,213,994		
<b>Total Other Investments</b>	<b>\$71,213,994</b>		
<b>TOTAL INVESTMENTS MEASURED AT FAIR VALUE</b>	<b>\$4,954,794,927</b>	<b>\$1,745,034,801</b>	<b>\$335,643,980</b>

	Fair Value Measures Using			
	Fair Value as of 12/31/2017	Quoted Prices in Active Markets Using Level 1	Significant Other Observable Inputs Level 2	Significant Unobservable Inputs Level 3
<b>Fire &amp; Police Members' Self-Directed Investment Fund</b>				
<b>Investments Measured by Fair Value Level</b>				
<b>ASSETS</b>				
Global Equity				
U.S. Common Stocks	\$20,089,425	\$20,089,425		
ETF/Units	19,187,650	19,187,650		
Rights/Warrants	127	127		
<b>Total Global Equity</b>	<b>\$39,277,202</b>	<b>\$39,277,202</b>		
Fixed Income				
Corporate Bonds	\$26,957		\$26,957	
Revenue Bonds	147,703		147,703	
<b>Total Fixed Income</b>	<b>\$174,660</b>	<b>\$0</b>	<b>\$174,660</b>	
<b>Total Investment Assets</b>	<b>\$39,451,862</b>	<b>\$39,277,202</b>	<b>\$174,660</b>	
<b>DERIVATIVES</b>				
Options Contracts	\$(7,812)		\$(7,812)	
<b>Total Derivatives</b>	<b>\$(7,812)</b>		<b>\$(7,812)</b>	
<b>INVESTMENTS MEASURED AT THE NET ASSET VALUE (NAV)</b>				
Domestic Equity Funds	\$115,280,377			
International Equity Funds	22,532,735			
Balanced Funds	191,056,738			
Fixed Income Funds	22,597,147			
Money Market & Stable Value Funds	33,159,565			
Brokeragelink Funds	25,889,000			
<b>Total Investments Measured at the NAV</b>	<b>\$410,515,562</b>			
<b>OTHER INVESTMENTS</b>				
Cash	\$162,973			
<b>Total Other Investments</b>	<b>\$162,973</b>			
<b>TOTAL INVESTMENTS MEASURED AT FAIR VALUE</b>	<b>\$450,122,585</b>	<b>\$39,277,202</b>	<b>\$166,848</b>	

Fire & Police Members' Benefit Investment Fund	Fair Value as of 12/31/2017	Unfunded Commitments	Redemption Frequency (If Currently Eligible)	Redemption Notice Period (Days)
Commingled Global Equity <sup>1</sup>	\$266,035,437		Daily, Monthly	1-30
Commingled Fixed Income <sup>2</sup>	373,619,766		Daily, Monthly	3-30
Absolute Return				
Alternative Beta <sup>3</sup>	95,579,661		Bi-weekly, Monthly	15-30
Long Short <sup>4</sup>	31,620,124		Quarterly	60
Global Macro <sup>5</sup>	143,303,899		Monthly, Quarterly	30-60
Opportunistic <sup>6</sup>	19,834,320		Quarterly	45
Multi-Strategy <sup>7</sup>	142,975,436		Quarterly	45-90
Convertible Arbitrage <sup>8</sup>	30,322,072		Quarterly	65
Equity Long/Short				
Activist <sup>9</sup>	53,040,007		Quarterly	65
Event Driven <sup>10</sup>	20,315,399		Quarterly, Two Year	60-90
Long Short <sup>11</sup>	350,691,146		Quarterly, Annual	45-90
Managed Futures				
Alternative Beta <sup>12</sup>	98,965,519		Daily, Weekly	1-3
Hedge Fund <sup>13</sup>	79,360,814		Monthly	43,250
Private Capital <sup>14</sup>	608,356,389	\$359,908,284		
Real Assets <sup>14</sup>	292,282,622	179,846,860		
Real Estate <sup>14</sup>	196,599,541	30,152,882		
<b>Total Investments Measured at the NAV</b>	<b>\$2,802,902,152</b>	<b>\$569,908,026</b>		

#### Fire & Police Members' Self-Directed Investment Fund

Domestic Equity Funds <sup>15</sup>	\$115,280,377		Daily	None
International Equity Funds <sup>16</sup>	22,532,735		Daily	None
Balanced Funds <sup>17</sup>	191,056,738		Daily	None
Fixed Income Funds <sup>18</sup>	22,597,147		Daily	None
Money Market & Stable Value Funds <sup>19</sup>	33,159,565		Daily	None
Brokeragelink Funds <sup>20</sup>	25,889,000		Daily	None
<b>Total Investments Measured at the NAV</b>	<b>\$410,515,562</b>			

#### Fire & Police Members' Benefit Investment Fund

<sup>1</sup> **Commingled Global Equity** – Consisting of four funds. These funds target diversified geographic and capitalization exposure to global equity markets. Three funds are dedicated emerging markets equity strategies. One fund is a dedicated MLP strategy.

<sup>2</sup> **Commingled Fixed Income** – Consisting of two funds. These funds target stable returns and income across broad US and global bond markets. One fund is an aggregation of passive fixed income exposures. One fund is dedicated to private placements.

<sup>3</sup> **Alternative Beta** – Consisting of two funds. These funds target systematic exposure to broad hedge fund strategies and style risk premia.

<sup>4</sup> **Long Short** – Consisting of one fund. This fund will maintain both long and short exposures within the equity markets.

<sup>5</sup> **Global Macro** – Consisting of four funds. These strategies maintain systematic or discretionary exposure to the equity, fixed income, commodity and currency markets.

- <sup>6</sup> **Opportunistic** – Consisting of one fund. This fund is a dedicated merger arbitrage strategy.
- <sup>7</sup> **Multi-Strategy** – Consisting of three funds. These funds target a relative value approach in actively allocating to various hedge fund strategies.
- <sup>8</sup> **Convertible Arbitrage** – Consisting of one fund. This fund’s strategy involves the simultaneous purchase of convertible securities and the short sale of the same issuer’s common stock.
- <sup>9</sup> **Activist** – Consisting of two funds. These funds target undervalued companies where the investment manager can act as a catalyst for change.
- <sup>10</sup> **Event Driven** – Consisting of two funds. These funds target companies with an impending catalyst for revaluation.
- <sup>11</sup> **Long Short** – Consisting of seven funds. These funds will maintain both long and short exposures within the equity markets.
- <sup>12</sup> **Alternative Beta** – Consisting of two funds. These funds target systematic exposure to trend following strategies in securities markets.
- <sup>13</sup> **Hedge Fund** – Consisting of two funds. These funds target active exposure to trend following strategies in securities markets.
- <sup>14</sup> **Private Capital, Real Assets and Real Estate** – Private Capital consisting of 76 funds with exposure to buyout funds, venture capital and special situations. Real Assets is comprised of 20 funds with exposure to energy, lending and diversified assets. Real Estate is comprised of 13 funds with invests in U.S. and global real estate.

**Fire & Police Members’ Self-Directed Investment Fund**

- <sup>15</sup> **Domestic Equity Funds** – Consisting of seven funds. These funds target diversified geographic and capitalization exposure to US equity markets.
- <sup>16</sup> **International Equity Funds** – Consisting of five funds. These funds target diversified geographic and capitalization exposure to Non-US equity markets. One fund is dedicated to emerging markets.
- <sup>17</sup> **Balanced Funds** – Consisting of twelve funds. These target date funds provide diversified global exposure to equity and fixed income strategies appropriate for a participant’s retirement age.
- <sup>18</sup> **Fixed Income Funds** – Consisting of four funds. These funds target stable returns and income across broad US and global bond markets. One fund is a dedicated high yield strategy.
- <sup>19</sup> **Money Market & Stable Value Funds** – Consisting of two funds. These funds target stable cash returns.
- <sup>20</sup> **Brokeragelink Funds** – Consisting of several funds. These funds may include various strategies as chosen by the participant.

**D. Investment Risk**

Investments are exposed to various risks including custodial credit risk, concentration of credit risk, credit risk, interest rate risk, and foreign currency risk.

1. Custodial Credit Risk

FPPA has no formal policy for custodial credit risk for investments. Custodial credit risk for investments is the risk that, in the event of the failure of the counterparty to a transaction, FPPA would not be able to recover the value of investment or collateral securities that are in possession of an outside party. Investment securities are exposed to custodial credit risk if the securities are uninsured, are not registered in FPPA’s name and are held by either counterparty or the counterparty’s trust department or agent but not in FPPA’s name. Investment-related cash deposits are under the custody of The Bank of New York Mellon which has an AA- long-term senior debt credit rating by Standard & Poor’s and an Aa2 rating by Moody’s and an AA rating by Fitch. As of December 31, 2017, FPPA had exposure to cash deposits in the amount of \$287,372,773. For the Fire & Police Members’ Self-Directed Investment Fund, all assets are in custody with Fidelity Investments. The custodial agent carries no custodial credit risk as all assets are insured and/or collateralized by the securities held by Fidelity Investments in FPPA’s name.

2. Concentration of Credit Risk

FPPA does not have any investments representing five percent or more of the Fire & Police Members’ Benefit Investment Fund assets or the Fire & Police Members’ Self-Directed Investment Fund in any single issuer. These funds do have investments representing five percent or more of the respective fund assets with investment manager organizations.

The following table summarized FPPA’s investments within the Fire & Police Members’ Benefit Investment Fund representing five percent or more with any one organization as of December 31, 2017.

Asset Class Manager	Fair Value	% of Total Fund Assets
SSgA BC Aggregate Bond	\$319,652,762	6.49%

There were no investments greater than 5 percent with any one organization within the Fire & Police Members' Self-Directed Investment Fund.

### 3. Credit Risk

Credit risk is the risk that an issuer of a debt instrument will not fulfill its obligations. Although FPPA does not have a specific policy relating to credit risk, through its Master Statement of Investment Policies and Objectives for the Fund, FPPA has established and monitors specific guidelines regarding the types, exposures and quality of securities within each fixed income portfolio.

The following table summarizes FPPA's fixed income securities credit quality ratings as of December 31, 2017:

Credit Quality Rating	Fixed Income Portfolio	
	Fair Value	% of Portfolio
<b><i>Fire &amp; Police Members' Benefit Investment Fund</i></b>		
Aaa/AAA	\$298,996,220	24.97%
Aa/AA	114,899,042	9.60%
A	119,985,172	10.02%
Baa/BBB	154,600,041	12.92%
Ba/BB	48,588,697	4.06%
B	16,680,104	1.39%
Caa/CCC	1,832,591	0.15%
Ca/CC	105,386	0.01%
D	356,734	0.03%
Not Rated	15,419,070	1.29%
<b>Total Credit Risk Debt Securities</b>	<b>\$771,463,057</b>	<b>64.44%</b>
U.S. Government Securities	82,509,101	6.89%
<b>Total Fixed Income Securities</b>	<b>\$853,972,158</b>	<b>71.33%</b>
Cash	287,372,773	24.00%
<b>Subtotal</b>	<b>\$1,141,344,931</b>	<b>95.33%</b>
<b><i>*Fire &amp; Police Members' Self-Directed Investment Fund</i></b>		
Fixed Income Funds	\$22,597,146	1.89%
Money Market & Stable Value Funds	33,159,565	2.77%
Cash	162,973	0.01%
<b>Subtotal</b>	<b>\$55,919,684</b>	<b>4.67%</b>
<b>Total</b>	<b>\$1,197,264,615</b>	<b>100.00%</b>

\* Fire & Police Members' Self-Directed Investment Fund is not rated.

### 4. Interest Rate Risk

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. FPPA utilizes effective duration as the primary measure of interest rate risk within its fixed income investments. Although FPPA does not have a specific policy relating to interest rate risk, through its Master Statement of Investment Policies and Objectives for the Fund, FPPA has established and monitors specific guidelines regarding the types, exposures and quality of securities within each fixed income portfolio.



The following table summarizes the effective duration of the FPPA's fixed income portfolios at December 31, 2017:

Security Type	Fixed Income Portfolio	
	Fair Value	Effective Duration
<b><i>Fire &amp; Police Members' Benefit Investment Fund</i></b>		
Asset Backed Securities	\$16,962,989	0.922
Corporate Bonds	376,852,220	5.265
Financial Futures	(135,724)	1.182
Fixed Income Swaps	4,390,347	1.693
Government & Agency	274,118,176	3.997
International Bonds	36,121,032	3.663
Mortgages- Non-Agency	12,662,526	3.755
Mortgages-Agency	36,849,198	6.139
Preferred Stock	6,751,839	0.000
Private Placements	87,020,361	2.381
Puts/Calls/Options	55,361	109.356
Revenue Bonds	2,187,869	7.985
TIPS	135,964	3.266
Cash	287,372,773	0.003
<b>Subtotal</b>	<b>\$1,141,344,931</b>	
<b><i>Fire &amp; Police Members' Self-Directed Investment Fund</i></b>		
Fixed Income Funds	\$22,597,146	4.443
Money Market & Stable Value Funds	33,159,565	1.906
Cash	162,973	0.003
<b>Subtotal</b>	<b>\$55,919,684</b>	
<b>Total</b>	<b>\$1,197,264,615</b>	<b>3.261</b>

5. Foreign Currency Risk

Foreign currency risk is the risk that changes in foreign exchange rates will adversely affect the fair value of an investment. FPPA's exposure to foreign currency risk derives primarily from its allocations to non-U.S. dollar denominated international equity. Other sources of foreign currency risk are derived from fixed income and alternative investments. Although FPPA does not have a specific policy relating to foreign currency risk, through its Master Statement of Investment Policies and Objectives for the Fund, FPPA has established and monitors specific guidelines regarding the types, exposures and quality of securities within each investment portfolio.

The fair value of FPPA's exposure to foreign currency risk at December 31, 2017 is summarized in the following table (reported in U.S. Dollars):

Currency	Cash	Global Equity	Fixed Income	Private Capital	Real Assets	Total
Australian Dollar		\$30,828,669	\$5,816,475			\$36,645,144
Brazilian Real		4,698,867				4,698,867
British Pound		96,866,666	1,140,679	\$26,774,990		124,782,335
Canadian Dollar		52,407,791	4,577,957			56,985,748
Danish Krone		14,109,979				14,109,979
Euro Currency	\$1,190,319	184,447,105	7,812,705	38,871,020	\$37,648,427	269,969,576
Hong Kong Dollar		82,666,816				82,666,816
Indian Rupee		9,242,144	2,385,931			11,628,075
Indonesian Rupiah		2,696,933				2,696,933
Israeli Shekel		1,365,467				1,365,467
Japanese Yen	1,161,817	140,798,785				141,960,602
Korean Won		30,582,549				30,582,549
Mexican Peso		2,413,999	3,073,392			5,487,391
New Zealand Dollar			6,103,770			6,103,770
Norwegian Krone		4,757,593	1,534,913			6,292,506
Philippine Peso		1,081,557	1,697,578			2,779,135
Singapore Dollar		5,816,405	2,585,697			8,402,102
South African Rand		7,455,926				7,455,926
Swedish Krona		14,893,392				14,893,392
Swiss Franc		45,740,220				45,740,220
Taiwan Dollar		19,183,640				19,183,640
Thailand Baht		7,048,640				7,048,640
Turkish Lira		5,227,848				5,227,848
United Arab Emirates Dirham		1,054,427				1,054,427
Other (less than \$1 million in holdings)	1,272,475	3,244,384	2,996,120			7,512,979
<b>Subtotal</b>	<b>\$3,624,611</b>	<b>\$768,629,802</b>	<b>\$39,725,217</b>	<b>\$65,646,010</b>	<b>\$37,648,427</b>	<b>\$915,274,067</b>
U.S. Dollar	\$283,748,162	\$881,573,245	\$814,246,941	\$542,710,379	\$254,634,195	\$2,776,912,922
<b>Grand Total</b>	<b>\$287,372,773</b>	<b>\$1,650,203,047</b>	<b>\$853,972,158</b>	<b>\$608,356,389</b>	<b>\$292,282,622</b>	<b>\$3,692,186,989</b>

The above chart excludes the investment classes of equity long/short, real estate, absolute return, managed futures, and the assets of the Fire & Police Members' Self-Directed Investment Fund which are comprised of U.S. dollar based investments.

#### E. Securities Lending

Colorado statute allows FPPA to participate in securities lending transactions. FPPA, via a Securities Lending Authorization Agreement, authorized Deutsche Bank to lend the securities to broker-dealers and banks. Securities were held at BNY Mellon Bank. FPPA temporarily suspended its securities lending program in 2017.

FPPA receives as collateral U.S. and foreign dollar cash, U.S. government securities, foreign sovereign debt and irrevocable bank letters of credit. Borrowers are required to deliver collateral for each loan in amounts equal to 102 percent of the fair value of the loaned securities with respect to U.S. securities and 105 percent of the fair value of loaned securities with respect to foreign securities. FPPA does not impose any restrictions on the amounts of loans that Deutsche Bank made on its behalf. FPPA and borrowers maintained the right to terminate all securities lending transactions on demand. The cash or U.S. Government and Agency securities collateral received on each loan is invested, together with the cash

collateral of other qualified tax-exempt plan lenders. Maturities of the investments made with cash collateral generally do not match the maturities of securities loans. The securities lending positions at December 31, 2017 were all \$0 and at December 31, 2016 were as follows:

	December 31, 2016
Fair Value of Securities on Loan	\$75,547,864
Collateral Held	77,357,635
Fair Value of Invested Collateral	77,397,016
Securities Lending Obligations	77,410,620

The invested collateral and corresponding obligation are reflected in the Statement of Fiduciary Net Position as assets and liabilities, respectively. For the year ended December 31, 2017, the decrease in fair value of the invested collateral was \$(39,381) in comparison to the increase in fair value of the invested collateral for the year ended December 31, 2016 of \$34,537. These changes are reflected in the "Gain (Loss) on Securities Lending" line on the Statement of Changes in Fiduciary Net Position. The invested collateral securities in this program were typically held to maturity and expected to mature at par.

FPPA records its share of lending fees as an expense with a corresponding effect of recognizing security lending income earned.

At December 31, 2017, the fair value of the securities on loan and the invested collateral was \$0.

#### F. Interest Income

The Statement of Changes in Fiduciary Net Position for the Fire & Police Members' Benefit Investment Fund reflects interest investment income of \$12,435,949 for the year 2017. Interest income for the Fire & Police Members' Self-Directed Investment Fund totaled \$122,948 for 2017.

### NOTE 6 | IRC 457 DEFERRED COMPENSATION PLAN

The IRC 457 Deferred Compensation Plan, created under Internal Revenue Code Section 457, collects voluntary deferred contributions or post-tax contributions through the Roth option by participants of affiliated plans and employees of FPPA. The assets are held in trust for the exclusive benefit of participants. Plan participation is voluntary and contributions are separate from the defined benefit or money purchase contributions made to FPPA. FPPA partners with Fidelity Investments as the recordkeeper for this Plan.

All contributions are invested in the Fire & Police Members' Self-Directed Investment Fund. This plan allows employees to defer a portion of their salary until future years. Participants in the plan are allowed to transfer account balances among a variety of investment funds, or change the contribution percentages designated to each fund on a daily basis. The core investment funds as of December 31, 2017 are:

- Vanguard Institutional Target Retirement 2015 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2020 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2025 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2030 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2035 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2040 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2045 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2050 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2055 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2060 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2065 Fund Institutional Shares
- Vanguard Institutional Target Retirement Income Fund Institutional Shares
- American Beacon Large Cap Value Fund Institutional Class
- American Funds New Perspective Fund Class R6
- Artisan Mid Cap Fund Institutional Class
- Dreyfus/The Boston Company Small Cap Value Fund Class I
- Fidelity® Growth Company Fund Class K

- Fidelity® Money Market Trust Retirement Government Money Market Portfolio – Class I
- Franklin International Small Cap Growth Fund Class R6
- Gabelli Small Cap Growth Fund Class I
- Harbor International Fund Institutional Class
- John Hancock Funds Disciplined Value Mid Cap Fund Class R6
- Metropolitan West High Yield Bond Fund Class Institutional
- Oppenheimer Developing Markets Fund Class I
- Dodge & Cox Income Fund
- Templeton Global Bond Fund Class R6
- Vanguard Total Bond Market Index Fund Institutional Shares
- Vanguard Total International Stock Index Fund Admiral Shares
- Vanguard Total Stock Market Index Fund Institutional Shares
- Wells Fargo Stable Return Portfolio Class C

In addition, participants may utilize a Self-Directed Brokerage Account in which the investments are not explicitly offered by the plan and are selected directly by the participant. The deferred compensation and associated appreciation in the fair value of the assets held are not available to employees until termination, retirement, death, or an unforeseen emergency. As of December 31, 2017, there were 2,656 participants with account balances within the plan.

In 2017, participants could contribute up to \$18,000 into the plan. Catch-up contributions up to \$6,000 in 2017 were allowed for participants who had attained age 50 before the close of the plan year. As an alternative to the age 50+ catch-up provisions, participants could defer up to twice the contribution limit in a given year for the three years prior to normal retirement age if the maximum contributions have not been made previously. If the “double limit” or Enhanced Contribution Limit is used, the participant cannot use the age 50+ catch-up provision with the same year. A participant may trigger the Enhanced Contribution Limit by electing a normal retirement age. “Normal Retirement Age” means age 70 ½ or some other earlier age specified in writing by the participant. In no event shall normal retirement age be earlier than the earliest date at which one may retire under the employer’s basic pension plan without the employer’s consent and receive immediate retirement benefits, without incurring an actuarial or similar reduction in benefits. The Enhanced Contribution Limit is available to a participant only during one three-year period. If a participant uses the Enhanced Contribution Limit and then postpones normal retirement age or returns to work after retiring, the limitation shall not be available again before a subsequent retirement.

Participants are eligible to take distributions from their account under any of the following conditions: 1.) Participant attains age 70 ½ in the current calendar year 2.) Participant incurs a separation of service, defined as the termination of employment with the employer due to death, retirement, or other cause 3.) Participant suffers an approved hardship that results from an unforeseeable emergency 4.) Trustee-to-Trustee transfer to an FPPA defined benefit plan within the Defined benefit System to purchase service. Benefits for a Participant or Beneficiary shall commence no later than April 1 of the calendar year in which the Participant attains age 70 ½. Beginning in July 2015, participants are eligible to take loans from their account. The outstanding loan balance as of December 31, 2017 is \$1,511,296 and is recorded as part of Other Receivables on the Statements of Fiduciary Net Position.

In response to the 1996 Small Business Protection Act, the Governmental Accounting Standards Board issued Statement No. 32, Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans. This statement requires that amounts deferred under a qualified Section 457 plan be held in trust for the exclusive benefit of participating employees, and not be accessible by the sponsoring government or its general creditors.

In response to this statement, FPPA has modified its trust agreement with respective affiliates to place this plan’s activity within the Fire & Police Members’ Self-Directed Investment Fund for the purposes of financial statement presentation. Fund balance reserved for withdrawals at December 31, 2017 is \$139,281,833.

**NOTE 7 | OTHER POST EMPLOYMENT BENEFITS (OPEB)****A. Statewide Death & Disability Plan**

## 1. Net OPEB Liability

**Statewide Death & Disability Plan**

Total OPEB Liability	\$385,870,588
Plan Fiduciary Net Position *	403,693,032
Net OPEB Liability (Asset)	(17,822,444)
Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability	104.6%

\*The Plan Fiduciary Net Position used to calculate the Net OPEB Liability is the net invested plan assets as of December 31, 2017. It does not include the impact of contributions not received during 2017 and the net OPEB liability associated with the FPPA Staff participation in the Public Employees' Retirement Association of Colorado pension plan further described in Note 9, FPPA Employee Retirement Plan.

The net OPEB liability (i.e., the plan's liability determined in accordance with Governmental Accounting Standards Board (GASB) Statement No. 74, Financial Reporting for Postemployment Benefits Other Than Pension Plans, less the fiduciary net position) as of December 31, 2017, is shown above. Actuarial valuation of the ongoing plans involves estimates of the reported amounts and assumptions about probability of occurrence of events far into the future. Examples include assumptions about future employment mortality and future salary increases. Amounts determined regarding the net OPEB liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The last experience study was performed in 2015 and the changes in assumptions are included in the totals presented in table above. The Schedule of Employers' Net OPEB Liability presents multi-year trend information about whether the plan fiduciary net positions are increasing or decreasing over time relative to the total pension liability. These schedules are presented in the Required Supplementary Information section. The Total OPEB Liability as of December 31, 2017, is based on the results of the most recent actuarial valuation date and rolled-forward using generally accepted actuarial procedures.

## 2. Summary of Actuarial Assumptions

A summary of the actuarial assumptions used to calculate the Total OPEB Liability is shown below.

Valuation Date	January 1, 2017
Actuarial Method	Entry Age Normal
Amortization Method	N/A
Amortization Period	N/A
Asset Valuation Method	5-Year Smoothed Fair Value
Actuarial Assumptions:	
Investment Rate of Return*	7.5%
Projected Salary Increases*	4.0% - 14.0%
Cost of Living Adjustment (COLA)	0.00%
*Includes inflation at	2.50%

The post-retirement mortality tables for non-disabled retirees is a blend of the Annuitant and Employee RP-2014 generational mortality tables with blue collar adjustment, projected with Scale BB. The occupationally disabled post-retirement mortality assumption uses the same table as used for healthy annuitants, except there is a three year set-forward, meaning a disabled member age 70 will be valued as if they were a 73 year old healthy retiree. The totally disabled post-retirement mortality assumption uses the RP-2014 generational mortality tables for disabled annuitants, except an additional provision to apply a minimum 3 percent mortality probability to males and 2 percent mortality probability for females, is included to reflect substantial impairment for this population. The pre-retirement non-duty mortality tables are adjusted to 55% of the RP-2014 mortality tables for active employees. The on-duty mortality rate is 0.00020.

3. Target Allocations

Asset Class	Target Allocation	Long Term Expected Rate of Return
Global Equity	37%	8.33%
Equity Long/Short	9%	7.15%
Illiquid Alternatives	24%	9.70%
Fixed Income	15%	3.00%
Absolute Return	9%	6.46%
Managed Futures	4%	6.85%
Cash	2%	2.26%
<b>Total</b>	<b>100%</b>	

The long-term expected rate of return on OPEB plan investments was determined using a building-block method in which best-estimate ranges of expected future nominal 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. Best estimates of arithmetic real rates of return for each major asset class included in the Statewide Death & Disability Plan target asset allocation as of December 31, 2017, are summarized in the above table.

The discount rate used to measure the total OPEB liability was 7.50 percent. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current contribution rate. Based on those assumptions, the Plan fiduciary net position was projected to be available to make all the projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on OPEB plan investments was applied to all periods of projected benefit payments to determine the total OPEB liability.

4. Changes in Discount Rates

1.00% Decrease *	Current Discount Rate *	1.00% Increase *
\$23,284,398	\$(17,822,444)	\$(52,194,016)

\* Both the long-term rate of return and the resulting single discount rate used were 7.50 percent.

In accordance with GASB Statement No. 74 regarding the disclosure of the sensitivity of the net OPEB asset to changes in the discount rate, the above table presents the net OPEB asset of the participating employers calculated using the discount rate of 7.50 percent, as well as what the net OPEB liability would be if it were calculated using a discount rate that is 1.00 percent lower (6.50 percent) or 1.00 percent higher (8.50 percent) than the current rate.

Regarding the sensitivity of the net OPEB asset to changes in healthcare cost trend rates, this plan does not provide healthcare benefits and is not subject to the healthcare trend.

**B. FPPA Staff Healthcare Subsidy Plan**

The net OPEB liability (i.e., the plan’s liability determined in accordance with Governmental Accounting Standards Board (GASB) Statement No. 74, Financial Reporting for Postemployment Benefits Other Than Pension Plans, less the fiduciary net position) as of December 31, 2017, is \$47,089 using a discount rate of 7.5 percent. The Plan net OPEB liability would be \$85,916 if it were calculated using a discount rate 1.0 percent less (6.5 percent) or \$14,289 if it were calculated using a discount rate 1.0 percent higher (8.5 percent).

The total OPEB liability is \$315,955 and the plan fiduciary net position is \$268,866 as of December 31, 2017. The total OPEB liability is based on the alternative measurement methods applied as of December 31, 2017 due to the small size of the plan. FPPA uses a level dollar amortization method over a 10 year amortization period. The discount rate used is

7.5 percent corresponding to the expected investment rate of return as described above for the Statewide Death & Disability Plan. Based on that assumption, the Plan fiduciary net position was projected to be available to make all projected future benefit payments. Regarding the sensitivity of the net OPEB liability to changes in healthcare cost trend rates, this plan does not provide healthcare benefits and is not subject to the healthcare trend.

## NOTE 8 | PROPERTY AND EQUIPMENT

Property and equipment at December 31, 2017, is comprised of the following:

General Assets	Balance 12/31/2016	Additions	Deletions	Balance 12/31/2017
Nondepreciable Assets:				
Land	\$1,937,742			\$1,937,742
Depreciable Assets:				
Building & Improvements	2,487,247	\$216,692	\$(5,255)	2,698,684
Equipment	429,903	80,271	(20,119)	490,055
Intangible Assets (Internally generated computer software)	6,067,814	392,340		6,460,154
<b>Totals at Historical Cost</b>	<b>\$10,922,706</b>	<b>\$689,303</b>	<b>\$(25,374)</b>	<b>\$11,586,635</b>
Less Accumulated Depreciation/Amortization for:				
Building & Improvements	\$(1,860,563)	\$(65,024)	\$5,255	\$(1,920,332)
Equipment	(325,942)	(52,617)	20,119	(358,440)
Intangible Assets (Internally generated computer software)	(4,988,009)	(221,052)		(5,209,061)
<b>Total Accumulated Depreciation/Amortization</b>	<b>\$(7,174,514)</b>	<b>\$(338,693)</b>	<b>\$25,374</b>	<b>\$(7,487,833)</b>
<b>Total Net Property &amp; Equipment</b>	<b>\$3,748,192</b>	<b>\$350,610</b>	<b>\$0</b>	<b>\$4,098,802</b>

Land, Building, and Improvements are held as an operating asset and not held within the Fire & Police Members' Benefit Investment Fund. Depreciation/Amortization Expense for 2017 totaled \$338,693.

## NOTE 9 | FPPA EMPLOYEE RETIREMENT PLAN

### A. Plan Description

All employees of FPPA are provided with pensions through the State Division Trust Fund (SDTF)—a cost-sharing multiple employer defined benefit pension plan administered by the Public Employees' Retirement Association of Colorado (PERA). Plan benefits are specified in Title 24, Article 51 of the Colorado Revised Statutes (CRS), as amended. Colorado State law provisions may be amended from time to time by the Colorado General Assembly. PERA issues a publicly available comprehensive annual financial report that can be obtained at [www.copera.org/investments/pera-financial-reports](http://www.copera.org/investments/pera-financial-reports). PERA's report includes information regarding the investment strategies, allocations and returns of the SDTF, actuarial assumptions and historical information regarding employer contributions and changes in benefit provisions.

### B. Contributions

Plan members and employers are required to contribute at a rate set by statute. The contribution requirements of plan members and employers are established under CRS § 24-51-401. During 2017, members contributed 8.0 percent of covered salary and FPPA, as an employer, contributed 20.15 percent of covered salary. FPPA's employer contributions to the SDTF for the years ending December 31, 2017, 2016 and 2015 were \$920,376, \$920,107, and \$802,974, respectively, equal to the required contributions for each year.

**C. Benefits Provided**

PERA provides retirement, disability, and survivor benefits. Retirement benefits are determined by the amount of service credit earned or purchased, highest average salary, the benefit structure under which the member retires, the benefit option selected at retirement, and age at retirement. Retirement eligibility is specified in tables set forth at CRS § 24-51-602, 604, 1713, and 1714.

The lifetime retirement benefit for all eligible retiring employees under the PERA Benefit Structure is the greater of the highest average salary multiplied by 2.5 percent and then multiplied by years of service credit or the value of the retiring employee's member contribution account plus a 100 percent match on eligible amounts as of the retirement date. This amount is then annuitized into a monthly benefit based on life expectancy and other actuarial factors.

In all cases, the service retirement benefit is limited to 100 percent of highest average salary and also cannot exceed the maximum benefit allowed by federal Internal Revenue Code.

Disability benefits are available for eligible employees once they reach five years of earned service credit and are determined to meet the definition of disability.

**D. FPPA Accounting for the SDTF**

FPPA accounts for the SDTF under GASB Statement No. 68, Accounting and Financial Reporting for Pensions. GASB Statement No. 68 requires FPPA to record a net pension liability based on its proportionate share of the SDTF's collective net pension liability. Likewise, FPPA's proportionate share of the SDTF's deferred outflows and deferred inflows of resources related to pension and pension expense are recorded in the Statements of Fiduciary Net Position and Statements of Changes in Fiduciary Net Position for the year ending December 31, 2017.

The total pension liability was determined from the December 31, 2016 actuarial valuation. The proportionate share of the FPPA net pension liability calculated using the discount rate of 5.26 percent is \$32,549,920. The proportionate share of the net pension liability would be \$40,315,090 if it were calculated using a discount rate that is 1-percentage-point lower (4.26 percent) or \$26,170,234 if it were calculated using a discount rate that is 1-percentage-point higher (6.26 percent) than the current rate. The proportionate share of the FPPA deferred inflows is \$100,190, deferred outflows is \$11,803,974, and pension expense is \$7,710,913.

**NOTE 10 | FPPA EMPLOYEE DEFINED CONTRIBUTION PENSION PLAN****A. Plan Description**

The SDTF members of FPPA may contribute to the Voluntary Investment Program (VIP), an Internal Revenue Code Section 401(k) defined contribution plan administered by the Public Employees' Retirement Association of Colorado (PERA). Plan participation is optional, and contributions are separate from others made to PERA. Title 24, Article 51, Part 14 of the CRS, as amended, assigns the authority to establish the Plan provisions to the PERA Board of Trustees. PERA issues a publicly available comprehensive annual financial report for the Program. That report can be obtained at [www.copera.org/investments/pera-financial-reports](http://www.copera.org/investments/pera-financial-reports).

**B. Contributions**

The VIP is funded by member contributions and discretionary employer matching contributions. The maximum contribution levels are set by the Internal Revenue Service and change annually. FPPA matched member contributions up to a maximum \$1,100 in 2017. Employees are immediately vested in their own contributions, employer contributions and investment earnings. The VIP member contributions from FPPA employees for the year ended December 31, 2017 were \$138,527 and the matching employer contributions were \$13,646.



**NOTE 11 | FPPA EMPLOYEE OTHER POST-EMPLOYMENT BENEFITS****A. Plan Description**

FPPA contributes to the Health Care Trust Fund (HCTF), a cost sharing multiple-employer healthcare trust administered by the Public Employees' Retirement Association of Colorado (PERA). The HCTF benefit provides a health care premium subsidy and health care programs (known as PERACare) to PERA participating benefit recipients and their eligible beneficiaries. Title 24, Article 51, Part 12 of the CRS, as amended, establishes the HCTF and sets forth a framework that grants authority to the PERA Board to contract, self-insure and authorize disbursements necessary in order to carry out the purposes of the PERACare program, including the administration of health care subsidies. PERA issues a publicly available comprehensive annual financial report that includes financial statements and required supplementary information for the HCTF. That report can be obtained at [www.copera.org/investments/pera-financial-reports](http://www.copera.org/investments/pera-financial-reports).

**B. Contributions**

FPPA is required to contribute at a rate of 1.02 percent of PERA-includable salary for all PERA members as set by statute. No member contributions are required. The contribution requirements for FPPA are established under Title 24, Article 51, Part 4 of the CRS, as amended. The apportionment of the contributions to the HCTF is established under Title 24, Article 51, Section 208(1)(f) of the CRS, as amended. For the years ending December 31, 2017, 2016 and 2015, FPPA's contributions to the HCTF were \$51,497, \$51,766, and \$47,261, respectively, equal to their required contributions for each year.

**NOTE 12 | RISK MANAGEMENT**

FPPA is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; and natural disasters. It carries commercial coverage of these risks of loss. Claims have not exceeded coverage in any of the last three fiscal years.

**NOTE 13 | DERIVATIVE INSTRUMENTS****A. Forward Foreign Exchange Contracts**

Through its various money managers, FPPA may enter into forward foreign exchange contracts to hedge against changes in currency prices relative to the U. S. dollar. Forward foreign exchange contracts are a contractual obligation between two parties to pay or receive specific amounts of foreign currency at a future date in exchange for another currency at an agreed-upon exchange rate. Forward commitments are not standardized and carry counterparty risk. Forwards are usually transacted over the counter (OTC) with the foreign exchange department of a bank located in a major money market. Recognition of realized gain or loss depends on whether the currency exchange rate has moved favorably or unfavorably to the contract holder upon termination of the contract. As of December 31, 2017, the total portfolio had 0.0% percent net exposure to forward foreign exchange contracts. The fair value of exposure was comprised of \$784,263,831 in payables and \$782,375,549 in receivables, for a net exposure of \$(1,888,283).

**B. Equity Index Futures**

FPPA through its various managers has invested in equity index futures. These future positions are used solely to provide liquidity and market exposure.

FPPA utilizes an Exposure Manager to temporarily rebalance the portfolio via the use of derivatives contracts, primarily index futures. Derivatives contracts can be used to approximate the benchmarks of underlying managers or asset classes. An Exposure Manager may also be utilized to create equity exposure up to the amounts of cash held within the accounts of FPPA's domestic and international equity managers. As of December 31, 2017, the total portfolio had 0.0% percent net exposure to equity index futures. The fair value of exposure was comprised of \$0 in payables and \$1,075,772 in receivables, for a net exposure of \$1,075,772.

**C. Financial Futures, Options**

FPPA, through its various money managers, has entered into exchange traded financial futures. The purpose of these contracts is for hedging, as an alternative to investments in the cash market and as an additional yield curve management strategy. These futures included U.S. agency, bond and treasury futures and options. In addition, contracts include Eurodollar and interest rate swap futures. Money managers may also invest in forward contracts. These transactions relate to a forward commitment strategy in cash equivalents or short duration securities with an effective duration of one year or less. As of December 31, 2017, the total portfolio had 0.6% percent net exposure financial futures. The fair value of exposure was comprised of \$5,250,522 in payables and \$32,585,503 in receivables, for a net exposure of \$27,334,981.

#### **NOTE 14 | COMMITMENTS AND CONTINGENCIES**

FPPA is involved in various claims and legal actions arising in the ordinary course of business. In the opinion of FPPA's legal counsel, the ultimate resolution of these matters will not have a material adverse effect on the financial condition of the Fire & Police Members' Benefit Investment Fund. FPPA has invested in certain limited partnerships and private fund investments. As part of these investments, FPPA has agreed to contribute additional funds at various times. At December 31, 2017, FPPA had committed approximately \$569.9 million in additional funds to these investments.

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**■ Schedule of Annual Money-Weighted Rate of Return on Pension and OPEB Plan Investments**


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The annual money-weighted rate of return for the Fire & Police Members' Benefit Investment Fund is as follows:

As of December 31	Annual Money-Weighted Rate of Return
2017	15.0%
2016	5.5%
2015	1.9%
2014	9.9%

*Note - Information about the annual money-weighted return for the Fund for ten years is not available as GASB Statement No. 67 was implemented in 2014. Additional years will be reported as they become available.*

## Cost-Sharing and Single Employer Plans

Schedule of Changes in the Employers' Net Pension Liability | December 31, 2017

## Defined Benefit System | Statewide Defined Benefit Plan

	2017	2016	2015	2014
<b>Total Pension Liability</b>				
Service Cost	\$78,479,646	\$72,572,756	\$66,774,163	\$61,258,996
Interest	151,994,779	138,918,731	124,407,008	115,461,452
Benefit Changes	1,548,628	3,080,926	2,819,803	(9,641,302)
Difference Between Actual and Expected Experience	108,970,799	8,604,791	18,544,608	9,903,233
Assumption Changes	0	32,998,660	0	0
Benefit Payments	(65,965,013)	(59,989,380)	(53,076,425)	(47,700,529)
Refunds	(2,187,599)	(1,813,180)	(1,763,962)	(1,848,698)
<b>Net Change in Total Pension Liability</b>	<b>\$272,841,240</b>	<b>\$194,373,304</b>	<b>\$157,705,195</b>	<b>\$127,433,152</b>
Total Pension Liability - Beginning	2,013,142,793	1,818,769,489	1,661,064,294	1,533,631,141
<b>Total Pension Liability - Ending</b>	<b>\$2,285,984,033</b>	<b>\$2,013,142,793</b>	<b>\$1,818,769,489</b>	<b>\$1,661,064,293</b>
<b>Plan Fiduciary Net Position</b>				
Contributions - Employer	\$44,362,720	\$40,930,412	\$38,807,864	\$35,952,356
Contributions - Member	156,430,319	59,427,866	71,434,264	47,508,931
Net Investment Income	298,378,849	101,475,943	30,587,174	138,837,648
Benefit Payments	(65,965,013)	(59,989,380)	(53,076,425)	(47,700,529)
Refunds	(2,187,599)	(1,813,180)	(1,763,962)	(1,848,698)
Plan Direct Expense	0	0	0	0
Administrative Expense	(3,135,872)	(3,383,884)	(3,022,691)	(1,242,382)
Contributions for Service Reinstatements	0	20,412	0	0
Other	0	0	0	0
<b>Net Change in Plan Fiduciary Net Position</b>	<b>\$427,883,404</b>	<b>\$136,668,189</b>	<b>\$82,966,224</b>	<b>\$171,507,326</b>
Plan Fiduciary Net Position - Beginning *	1,985,393,043	1,848,724,854	1,765,758,630	1,623,049,809
<b>Plan Fiduciary Net Position - Ending *</b>	<b>\$2,413,276,447</b>	<b>\$1,985,393,043</b>	<b>\$1,848,724,854</b>	<b>\$1,794,557,135</b>
<b>Net Pension Liability - Ending</b>	<b>\$(127,292,414)</b>	<b>\$27,749,750</b>	<b>\$(96,729,528)</b>	<b>\$(133,492,842)</b>
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	105.6%	98.6%	105.5%	108.0%
Covered Payroll	\$577,697,658	\$535,968,391	\$495,534,535	\$449,010,427
Net Pension Liability as a Percentage of Covered Payroll	(22.0%)	5.2%	(19.5%)	(29.7%)

Note - Information for changes in the net pension liability 10 years is not available as GASB Statement No. 67 was implemented in 2014. Additional years will be reported as they become available.

\*The Plan Fiduciary Net Position used to calculate the Net Pension Liability in the above Schedules of Changes in the Employers' Net Pension Liability uses the net invested plan assets as of December 31 of each year presented. It does not include the impact of contributions not received during 2017 and the net pension liability associated with the FPPA Staff participation in the Public Employees' Retirement Association of Colorado pension plan.

## Cost-Sharing and Single Employer Plans

Schedule of Changes in the Employers' Net Pension Liability | December 31, 2017

## Defined Benefit System | Statewide Hybrid Plan - Defined Benefit Component

	2017	2016	2015	2014
<b>Total Pension Liability</b>				
Service Cost	\$1,247,137	\$1,296,839	\$1,231,110	\$1,312,804
Interest	3,155,031	2,686,507	2,197,875	1,978,643
Benefit Changes	418,041	360,485	279,549	195,705
Difference Between Actual and Expected Experience	7,887,981	2,908,771	2,908,248	1,409,819
Assumption Changes	0	676,345	0	0
Benefit Payments	(1,493,664)	(1,191,766)	(953,099)	(752,330)
Refunds	(27,870)	(17,151)	(18,365)	(43,962)
<b>Net Change in Total Pension Liability</b>	<b>\$11,186,656</b>	<b>\$6,720,030</b>	<b>\$5,645,318</b>	<b>\$4,100,679</b>
Total Pension Liability - Beginning	42,589,683	35,869,653	30,224,335	26,123,656
<b>Total Pension Liability - Ending</b>	<b>\$53,776,339</b>	<b>\$42,589,683</b>	<b>\$35,869,653</b>	<b>\$30,224,335</b>
<b>Plan Fiduciary Net Position</b>				
Contributions - Employer	\$1,304,938	\$1,298,684	\$1,302,433	\$1,237,843
Contributions - Member	8,956,842	4,118,336	4,341,844	1,765,286
Net Investment Income	8,122,829	2,656,991	673,519	3,185,166
Benefit Payments	(1,493,664)	(1,191,766)	(953,099)	(752,330)
Refunds	(27,870)	(17,151)	(18,365)	(43,962)
Plan Direct Expense	0	0	0	0
Administrative Expense	(77,914)	(87,869)	(73,679)	(26,331)
Contributions for Service Reinstatements	0	0	0	0
Other	0	0	0	0
<b>Net Change in Plan Fiduciary Net Position</b>	<b>\$16,785,161</b>	<b>\$6,777,225</b>	<b>\$5,272,653</b>	<b>\$5,365,672</b>
Plan Fiduciary Net Position - Beginning *	53,087,030	46,309,805	41,037,152	36,323,815
<b>Plan Fiduciary Net Position - Ending *</b>	<b>\$69,872,191</b>	<b>\$53,087,030</b>	<b>\$46,309,805</b>	<b>\$41,689,487</b>
<b>Net Pension Liability - Ending</b>	<b>\$(16,095,852)</b>	<b>\$(10,497,347)</b>	<b>\$(10,440,152)</b>	<b>\$(11,465,152)</b>
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	129.9%	124.6%	129.1%	137.9%
Covered Payroll	\$14,260,540	\$13,829,122	\$13,295,699	\$13,246,537
Net Pension Liability as a Percentage of Covered Payroll	(112.9%)	(75.9%)	(78.5%)	(86.6%)

Note - Information for changes in the net pension liability 10 years is not available as GASB Statement No. 67 was implemented in 2014. Additional years will be reported as they become available.

\*The Plan Fiduciary Net Position used to calculate the Net Pension Liability in the above Schedules of Changes in the Employers' Net Pension Liability uses the net invested plan assets as of December 31 of each year presented. It does not include the impact of contributions not received during 2017 and the net pension liability associated with the FPPA Staff participation in the Public Employees' Retirement Association of Colorado pension plan.

## Cost-Sharing and Single Employer Plans

Schedule of Changes in the Employers' Net Pension Liability | December 31, 2017

## Defined Benefit System | Colorado Springs New Hire Plan - Fire Component

	2017	2016	2015	2014
<b>Total Pension Liability</b>				
Service Cost	\$1,872,966	\$2,129,584	\$2,368,863	\$2,394,998
Interest	12,035,124	11,647,997	10,798,529	10,259,613
Benefit Changes	0	0	0	0
Difference Between Actual and Expected Experience	(287,257)	(535,223)	1,091,231	(989,275)
Assumption Changes	0	5,122,523	0	0
Benefit Payments	(7,983,856)	(7,389,735)	(6,228,574)	(5,317,236)
Refunds	(150,551)	(167,056)	0	0
<b>Net Change in Total Pension Liability</b>	<b>\$5,486,426</b>	<b>\$10,808,090</b>	<b>\$8,030,049</b>	<b>\$6,348,100</b>
Total Pension Liability - Beginning	163,442,191	152,634,101	144,604,052	138,255,953
<b>Total Pension Liability - Ending</b>	<b>\$168,928,617</b>	<b>\$163,442,191</b>	<b>\$152,634,101</b>	<b>\$144,604,053</b>
<b>Plan Fiduciary Net Position</b>				
Contributions - Employer	\$4,181,089	\$3,485,586	\$3,437,596	\$3,341,129
Contributions - Member	1,083,453	1,045,342	1,202,513	1,278,915
Net Investment Income	18,445,141	6,569,905	2,206,765	7,744,227
Benefit Payments	(7,983,856)	(7,389,735)	(6,228,574)	(5,317,236)
Refunds	(150,551)	(167,056)	0	0
Plan Direct Expense	(9,300)			
Administrative Expense	(58,095)	(209,340)	(194,093)	(14,933)
Contributions for Service Reinstatements	0	38,760	0	7,001
Other	0	0	0	0
<b>Net Change in Plan Fiduciary Net Position</b>	<b>\$15,507,881</b>	<b>\$3,373,462</b>	<b>\$424,207</b>	<b>\$7,039,103</b>
Plan Fiduciary Net Position - Beginning *	126,527,898	123,154,436	122,730,229	115,691,126
<b>Plan Fiduciary Net Position - Ending *</b>	<b>\$142,035,779</b>	<b>\$126,527,898</b>	<b>\$123,154,436</b>	<b>\$122,730,229</b>
<b>Net Pension Liability - Ending</b>	<b>\$26,892,838</b>	<b>\$36,914,293</b>	<b>\$29,479,665</b>	<b>\$21,873,824</b>
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	84.1%	77.4%	80.7%	84.9%
Covered Payroll	\$13,115,596	\$14,134,843	\$13,991,673	\$12,468,196
Net Pension Liability as a Percentage of Covered Payroll	205.0%	261.2%	210.7%	175.4%

Note - Information for changes in the net pension liability 10 years is not available as GASB Statement No. 67 was implemented in 2014. Additional years will be reported as they become available.

\*The Plan Fiduciary Net Position used to calculate the Net Pension Liability in the above Schedules of Changes in the Employers' Net Pension Liability uses the net invested plan assets as of December 31 of each year presented. It does not include the impact of contributions not received during 2017 and the net pension liability associated with the FPPA Staff participation in the Public Employees' Retirement Association of Colorado pension plan.

## Cost-Sharing and Single Employer Plans

Schedule of Changes in the Employers' Net Pension Liability | December 31, 2017

## Defined Benefit System | Colorado Springs New Hire Plan - Police Component

	2017	2016	2015	2014
<b>Total Pension Liability</b>				
Service Cost	\$5,320,575	\$5,823,050	\$6,027,255	\$6,209,684
Interest	24,547,646	23,783,282	22,182,597	20,973,093
Benefit Changes	0	0	0	0
Difference Between Actual and Expected Experience	(6,295,849)	(5,402,817)	(839,906)	(1,283,125)
Assumption Changes	0	8,534,936	0	0
Benefit Payments	(12,859,508)	(11,574,477)	(10,088,223)	(8,817,186)
Refunds	(8,707)	(83,530)	(99,734)	(443,708)
<b>Net Change in Total Pension Liability</b>	<b>\$10,704,157</b>	<b>\$21,080,444</b>	<b>\$17,181,989</b>	<b>\$16,638,758</b>
Total Pension Liability - Beginning	336,068,031	314,987,587	297,805,598	281,166,840
<b>Total Pension Liability - Ending</b>	<b>\$346,772,188</b>	<b>\$336,068,031</b>	<b>\$314,987,587</b>	<b>\$297,805,598</b>
<b>Plan Fiduciary Net Position</b>				
Contributions - Employer	\$8,433,311	\$7,512,099	\$7,916,242	\$7,728,841
Contributions - Member	2,319,332	2,628,533	2,493,427	2,830,620
Net Investment Income	40,741,455	14,354,619	4,665,141	20,572,051
Benefit Payments	(12,859,508)	(11,574,477)	(10,088,223)	(8,817,186)
Refunds	(8,707)	(83,530)	(99,734)	(443,708)
Plan Direct Expense	(9,300)	0	0	0
Administrative Expense	(122,454)	(451,871)	(412,381)	(9,711)
Contributions for Service Reinstatements	0	0	0	0
Other	0	0	0	0
<b>Net Change in Plan Fiduciary Net Position</b>	<b>\$38,494,129</b>	<b>\$12,385,373</b>	<b>\$4,474,472</b>	<b>\$21,860,907</b>
Plan Fiduciary Net Position - Beginning *	277,111,969	264,726,596	260,252,124	242,667,157
<b>Plan Fiduciary Net Position - Ending *</b>	<b>\$315,606,098</b>	<b>\$277,111,969</b>	<b>\$264,726,596</b>	<b>\$264,528,064</b>
<b>Net Pension Liability - Ending</b>	<b>\$31,166,090</b>	<b>\$58,956,062</b>	<b>\$50,260,991</b>	<b>\$33,277,534</b>
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	91.0%	82.5%	84.0%	88.8%
Covered Payroll	\$29,280,692	\$31,180,071	\$32,359,637	\$30,441,800
Net Pension Liability as a Percentage of Covered Payroll	106.4%	189.1%	155.3%	109.3%

Note - Information for changes in the net pension liability 10 years is not available as GASB Statement No. 67 was implemented in 2014. Additional years will be reported as they become available.

\*The Plan Fiduciary Net Position used to calculate the Net Pension Liability in the above Schedules of Changes in the Employers' Net Pension Liability uses the net invested plan assets as of December 31 of each year presented. It does not include the impact of contributions not received during 2017 and the net pension liability associated with the FPPA Staff participation in the Public Employees' Retirement Association of Colorado pension plan.

Cost-Sharing and Single Employer Plans

Schedule of Employers' Contributions | December 31, 2017

Defined Benefit System | Statewide Defined Benefit Plan

Year ended	Actuarially Determined Contribution	Contributions in Relation to the Actuarially Determined Contribution	Contribution Deficiency (Excess)	Covered Payroll	Contributions as a % of Covered Payroll
12/31/2017	\$29,396,340	\$44,362,720	\$(14,966,380)	\$577,697,658	7.7%
12/31/2016	28,512,500	40,930,412	(12,417,912)	535,968,391	7.6%
12/31/2015	23,685,052	38,807,863	(15,122,811)	495,534,535	7.8%
12/31/2014	26,132,407	35,952,356	(9,819,949)	449,010,427	8.0%
12/31/2013	27,222,837	34,688,387	(7,465,550)	426,690,241	8.1%
12/31/2012	26,813,072	33,285,517	(6,472,445)	406,258,662	8.2%
12/31/2011	16,469,596	33,314,074	(16,844,478)	384,803,645	8.7%
12/31/2010	16,472,400	28,896,903	(12,424,503)	353,484,986	8.2%
12/31/2009	16,383,292	28,142,828	(11,759,536)	363,265,902	7.7%
12/31/2008	6,690,792	25,788,749	(19,097,957)	337,918,774	7.6%

Covered Payroll is an actuarial calculated amount comprising base salary reported to FPPA, annualization of base salary for members entering the plan mid-year and estimated wage inflation.

The statutory employer contribution rate for the years presented above was 8 percent and employers met that obligation and contributed 100 percent of the statutorily required amounts. Excess contributions represent the employer contributions in excess of the actuarial determined amount.

Defined Benefit System | Statewide Hybrid Plan - Defined Benefit Component

Year ended	Actuarially Determined Contribution	Contributions in Relation to the Actuarially Determined Contribution	Contribution Deficiency (Excess)	Covered Payroll	Contributions as a % of Covered Payroll
12/31/2017	\$1,304,938	\$1,304,938	\$0	\$14,260,540	9.2%
12/31/2016	1,298,684	1,298,684	0	13,829,122	9.4%
12/31/2015	1,316,896	1,316,896	0	13,295,699	9.9%
12/31/2014	1,237,843	1,237,843	0	13,246,537	9.3%
12/31/2013	1,286,870	1,286,870	0	13,384,707	9.6%
12/31/2012	1,272,726	1,272,726	0	12,195,940	10.4%
12/31/2011	961,701	961,701	0	8,770,187	11.0%
12/31/2010	807,955	807,955	0	9,026,182	9.0%
12/31/2009	795,464	795,464	0	7,726,670	10.3%
12/31/2008	683,205	683,205	0	7,342,967	9.3%

Covered Payroll is an actuarial calculated amount comprising base salary reported to FPPA, annualization of base salary for members entering the plan mid-year and estimated wage inflation.

The statutory employer contribution rate for the years presented above was 8% and employers met that obligation and contributed 100% of the statutorily required amounts.



## Cost-Sharing and Single Employer Plans

Schedule of Employers' Contributions | December 31, 2017

## Defined Benefit System | Colorado Springs New Hire Plan - Fire Component

Year ended	Actuarially Determined Contribution	Contributions in Relation to the Actuarially Determined Contribution	Contribution Deficiency (Excess)	Covered Payroll	Contributions as a % of Covered Payroll
12/31/2017	\$4,181,089	\$4,181,089	\$0	\$13,115,596	31.9%
12/31/2016	3,485,586	3,485,586	0	14,134,843	24.7%
12/31/2015	3,437,596	3,437,596	0	13,991,673	24.6%
12/31/2014	3,341,129	3,341,129	0	12,417,745	26.9%
12/31/2013	3,373,691	3,373,691	0	12,468,196	27.1%
12/31/2012	2,491,104	2,491,104	0	12,349,627	20.2%
12/31/2011	2,754,261	2,754,261	0	12,497,987	22.0%
12/31/2010	3,071,999	3,071,999	0	19,664,027	15.6%
12/31/2009	2,043,837	2,043,837	0	21,535,495	9.5%
12/31/2008	1,873,427	1,873,427	0	22,483,956	8.3%

Covered Payroll is an actuarial calculated amount comprising base salary reported to FPPA, annualization of base salary for members entering the plan mid-year and estimated wage inflation.

## Defined Benefit System | Colorado Springs New Hire Plan - Police Component

Year ended	Actuarially Determined Contribution	Contributions in Relation to the Actuarially Determined Contribution	Contribution Deficiency (Excess)	Covered Payroll	Contributions as a % of Covered Payroll
12/31/2017	\$8,433,311	\$8,433,311	\$0	\$29,280,692	28.8%
12/31/2016	7,512,099	7,512,099	0	31,180,071	24.1%
12/31/2015	7,916,242	7,916,242	0	32,359,637	24.5%
12/31/2014	7,728,841	7,728,841	0	29,508,880	26.2%
12/31/2013	8,050,570	8,050,570	0	30,441,800	26.4%
12/31/2012	6,485,502	6,485,502	0	30,420,085	21.3%
12/31/2011	6,941,971	6,941,971	0	31,381,480	22.1%
12/31/2010	7,199,381	7,199,381	0	33,357,527	21.6%
12/31/2009	4,988,639	4,988,639	0	35,550,304	14.0%
12/31/2008	3,490,595	3,490,595	0	36,735,114	9.5%

Covered Payroll is an actuarial calculated amount comprising base salary reported to FPPA, annualization of base salary for members entering the plan mid-year and estimated wage inflation.

Cost-Sharing and Single Employer Plans

**NOTE 1 | SCHEDULE OF CHANGES IN THE EMPLOYERS' NET PENSION LIABILITY**

The total pension liability contained in this schedule was provided by the plans' actuary, Gabriel, Roeder, Smith & Company. The net pension liability is measured as the total pension liability less the amount of the fiduciary net position of the plan. The required employer contributions and percent of those contributions actually made are presented in the schedule.

**NOTE 2 | ACTUARIAL ASSUMPTIONS FOR DEFINED BENEFIT SYSTEM**

The information presented in the required supplementary schedules was used in the actuarial valuation for purposes of determining the actuarially determined contribution rate. The assumptions and methods used for this actuarial valuation were recommended by the actuary and adopted by the FPPA Board. Additional information as of the latest actuarial valuation follows.

	Defined Benefit System		
	Statewide Defined Benefit Plan	Statewide Hybrid Plan – Defined Benefit Component	Colorado Springs New Hire Pension Plan
Valuation Date	January 1, 2017	January 1, 2017	January 1, 2017
Actuarial Method	Entry Age Normal	Entry Age Normal	Entry Age Normal
Amortization Method	Level % of Payroll, Open	Level % of Payroll, Open	Level Dollar, Closed
Amortization Period	30 Years	30 Years	21 Years, Beginning January 1, 2017
Asset Valuation Method	5-Year Smoothed Fair Value	5-Year Smoothed Fair Value	5-Year Smoothed Fair Value
Actuarial Assumptions:			
Investment Rate of Return*	7.5%	7.5%	7.5%
Projected Salary Increases*	4.0% – 14.0%	4.0% – 14.0%	4.0% – 14.0%
Cost of Living Adjustment (COLA)	0%	0%	2.4% (Fire Component) 2.6% (Police Component)
*Includes inflation at	2.5%	2.5%	2.5%

## Other Post-Employment Benefits Plans

## A. Schedule of Changes in Employers' Net OPEB Liability

## Statewide Death &amp; Disability Plan

	2017
<b>Total OPEB Liability</b>	
Service Cost	\$23,202,629
Interest	27,094,033
Benefit Changes	0
Difference Between Actual and Expected Experience	0
Assumption Changes	0
Benefit Payments	(28,157,074)
<b>Net Change in Total OPEB Liability</b>	<b>\$22,139,588</b>
Total OPEB Liability - Beginning	363,731,000
<b>Total OPEB Liability - Ending</b>	<b>\$385,870,588</b>
<b>Plan Fiduciary Net Position</b>	
Contributions - Member	\$20,535,422
Net Investment Income	52,449,216
Benefit Payments	(28,157,074)
Plan Direct Expense	0
Administrative Expense	(1,881,828)
Other	0
<b>Net Change in Plan Fiduciary Net Position</b>	<b>\$42,945,736</b>
Plan Fiduciary Net Position - Beginning *	360,747,296
<b>Plan Fiduciary Net Position - Ending *</b>	<b>\$403,693,032</b>
<b>Net OPEB Liability - Ending</b>	<b>\$(17,822,444)</b>
Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability	104.6%
Covered Employee Payroll	\$917,099,955
Net OPEB Liability as a Percentage of Covered Employee Payroll	(1.9%)

Note - Information on the change in net OPEB liability for 10 years is not available as GASB Statement No. 74 was implemented in 2017. Additional years will be reported as they become available.

\*The Plan Fiduciary Net Position used to calculate the Net OPEB Liability in the above Schedules of Changes in the Employers' Net Pension Liability uses the net invested plan assets as of December 31 of each year presented. It does not include the impact of contributions not received during 2017 and the net pension liability associated with the FPPA Staff participation in the Public Employees' Retirement Association of Colorado pension plan.

Regarding the sensitivity of the net OPEB liability to changes in healthcare cost trend rates, this plan does not provide healthcare benefits and is not subject to the healthcare trend.

## B. Schedule of Employers' Contributions

All contributions are made by members or on behalf of members to the Statewide Death & Disability Plan. As such, the employers' actuarial determined contribution is zero.

**NOTE 3 | ACTUARIAL ASSUMPTIONS FOR THE OTHER POST-EMPLOYMENT BENEFITS (OPEB) PLAN**

The information presented in the required supplementary schedules for the Statewide Death & Disability Plan was used in the actuarial valuation for purposes of determining the actuarially determined contribution rate. The assumptions and methods used for this actuarial valuation were recommended by the actuary and adopted by the FPPA Board. Additional information as of the latest actuarial valuation used to calculate the Total OPEB Liability follows.

Valuation Date	January 1, 2017
Actuarial Method	Entry Age Normal
Amortization Method	N/A
Amortization Period	N/A
Asset Valuation Method	5-Year Smoothed Fair Value
Actuarial Assumptions:	
Investment Rate of Return*	7.5%
Projected Salary Increases*	4.0% - 14.0%
Cost of Living Adjustment (COLA)	0%
*Includes inflation at	2.5%

The post-retirement mortality tables for non-disabled retirees is a blend of the Annuitant and Employee RP-2014 generational mortality tables with blue collar adjustment, projected with Scale BB. The occupationally disabled post-retirement mortality assumption uses the same table as used for healthy annuitants, except there is a three year set-forward, meaning a disabled member age 70 will be valued as if they were a 73 year old healthy retiree. The totally disabled post-retirement mortality assumption uses the RP-2014 generational mortality tables for disabled annuitants, except an additional provision to apply a minimum 3 percent mortality probability to males and 2 percent mortality probability for females, is included to reflect substantial impairment for this population. The pre-retirement non-duty mortality tables are adjusted to 55% of the RP-2014 mortality tables for active employees. The on-duty mortality rate is 0.00020.

**NOTE 4 | SCHEDULE OF CHANGES IN NET OPEB LIABILITY**

The total OPEB liability contained in this schedule was provided by the plans' actuary, Gabriel, Roeder, Smith & Company. The net OPEB liability is measured as the total OPEB liability less the amount of the fiduciary net position of the plan.

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## Fiduciary Net Position by Participating Employer

Employer Plan	Fiduciary Net Position Dec 31, 2016	Employer Contributions	Member Contributions	Contributions for Service Reinstatement	Affiliations/ (Withdrawals)
Adams County (North Washington) FPD (Old Hire)	\$2,275,584	\$180,163			
Adams County (North Washington) FPD (Volunteer)	160,540				
Alamosa County FPD (Volunteer)	591,713	13,893			
Alamosa Fire (Volunteer)	1,618,369	38,938			
Allenspark FPD (Volunteer)	504,399	13,500			
Aspen FPD (Volunteer)	2,035,685	240,000			
Ault FPD (Volunteer)	637,914	88,073			
Aurora Fire (Old Hire)	71,665,666	3,184,594			
Aurora Police (Old Hire)	86,937,519	3,906,280			
Bancroft FPD (Old Hire)	1,485,274	706,794			
Basalt & Rural FPD (Volunteer)	1,748,357	59,365			
Bennett FPD #7 (Volunteer)	920,029	10,000			
Berthoud FPD (Volunteer)	520,706	13,114			
Big Sandy FPD (Volunteer)	141,650	4,000			
Big Thompson Canyon Fire (Volunteer)	386,816	25,000			
Black Forest Fire Rescue (Volunteer)	1,184,777	10,000			
Blanca Fire (Volunteer)	146,592	3,959			
Boone Fire (Volunteer)	35,917	900			
Boulder Mountain FPD (Volunteer)	898,352	35,800			
Boulder Rural FPD (Volunteer)	532,918	159,000			
Bow Mar Police (Old Hire)	42,234				\$(44,339)
Brighton VFD (Volunteer)	3,564,374	68,950			
Brush Combined Fire (Volunteer)	801,643	38,149			
Buena Vista Fire (Volunteer)	437,164	12,000			
Calhan FPD (Volunteer)	152,490	3,000			
Cañon City Area FPD (Old Hire)	2,784,086	226,589			
Cañon City Area FPD (Volunteer)	248,554	7,187			
Carbondale & Rural FPD (Volunteer)	2,183,203	63,229			
Cascade FPD (Volunteer)	309,880	15,666			
Castle Rock Fire (Volunteer)	934,499	20,440			
Cedaredge Police (Old Hire)	74,673				
Central City VFD (Volunteer)	505,889	29,546			
Central Orchard Mesa FPD (Volunteer)	85,618	15,719			
Cherry Hills FPD (Old Hire)	2,210,748	214,110			
Cheyenne County FPD #1 (Volunteer)	447,300	20,000			
Clear Creek Fire Authority (Volunteer)	1,939,133	160,000			
Clifton FPD (Volunteer)	1,701,930				
Coal Creek Canyon FPD (Volunteer)	1,012,036	53,000			
Colorado River (Burning Mountain) FPD (Volunteer)	2,464,504	50,000			
Colorado River (Rifle) FPD (Volunteer)	4,787,336				
Colorado Springs Fire (Old Hire)	70,493,833	2,286,697			
Colorado Springs Police (Old Hire)	59,630,971	1,833,691			
Cortez Police (Old Hire)	266,459				

State Contributions	Net Investment Income	Benefit Payments	Refunds	Administrative and Pension Expenses	Change in Fiduciary Net Position	Fiduciary Net Position Dec 31, 2017
	\$298,038	\$(503,326)		\$(2,380)	\$(27,505)	\$2,248,079
	22,636	(20,280)	\$(1,300)	(2,706)	(1,650)	158,890
\$24,136	85,976	(34,100)	(1,300)	(9,182)	79,423	671,136
18,549	229,649	(113,088)	(1,300)	(12,189)	160,559	1,778,928
12,150	73,073	(38,792)		(8,806)	51,125	555,524
40,000	286,222	(291,720)	(1,300)	(15,658)	257,544	2,293,229
18,209	92,045	(107,238)		(7,115)	83,974	721,888
	10,148,447	(8,400,659)	(10,758)	(25,305)	4,896,319	76,561,985
	12,367,767	(9,526,513)	(10,775)	(28,122)	6,708,637	93,646,156
	166,978	(797,391)		(3,131)	73,250	1,558,524
10,222	249,198	(173,794)	(1,300)	(9,745)	133,946	1,882,303
9,000	131,274	(57,590)		(10,873)	81,811	1,001,840
11,803	72,374	(64,360)	(1,300)	(5,149)	26,482	547,188
3,600	20,437	(5,400)		(4,585)	18,052	159,702
	54,716	(41,300)	(1,300)	(6,464)	30,652	417,468
	168,335	(80,928)		(5,713)	91,694	1,276,471
	20,399	(14,910)	(1,300)	(1,767)	6,381	152,973
1,000	4,807	(3,300)		(4,209)	(802)	35,115
22,500	127,903	(61,570)		(14,530)	110,103	1,008,455
29,700	79,639	(131,611)		(8,806)	127,922	660,840
	2,684		9	(588)	(42,234)	0
56,649	497,825	(362,862)	(5,068)	(9,182)	246,312	3,810,686
26,925	110,424	(104,676)		(12,411)	58,411	860,054
10,800	62,018	(29,663)		(6,464)	48,691	485,855
5,400	22,620	(2,340)		(4,585)	24,095	176,585
	381,008	(413,373)		(2,380)	191,844	2,975,930
9,969	34,078	(31,120)		(5,814)	14,300	262,854
49,528	305,131	(190,200)	(17,654)	(18,476)	191,558	2,374,761
5,320	43,148	(38,640)	(1,300)	(5,901)	18,293	328,173
17,635	130,343	(105,840)		(5,149)	57,429	991,928
	10,299	(8,347)		(689)	1,263	75,936
	72,742	(38,700)		(5,525)	58,063	563,952
6,795	12,820	(24,300)	(1,300)	(4,585)	5,149	90,767
	298,155	(385,824)		(2,568)	123,873	2,334,621
18,000	62,923	(40,800)	(1,300)	(9,370)	49,453	496,753
26,188	286,874	(149,310)		(11,437)	312,315	2,251,448
13,258	239,576	(139,934)		(8,055)	104,845	1,806,775
28,764	142,468	(116,168)		(15,282)	92,782	1,104,818
30,929	344,119	(273,399)	(1,300)	(8,806)	141,543	2,606,047
	684,417	(262,401)	(1,300)	(9,370)	411,346	5,198,682
	10,078,023	(8,156,537)		(34,322)	4,173,861	74,667,694
	8,520,413	(6,759,933)		(28,874)	3,565,297	63,196,268
	37,909	(14,721)		(689)	22,499	288,958

## Fiduciary Net Position by Participating Employer

Employer Plan	Fiduciary Net Position Dec 31, 2016	Employer Contributions	Member Contributions	Contributions for Service Reinstatement	Affiliations/ (Withdrawals)
Crested Butte FPD (Volunteer)	\$3,173,614				
Cripple Creek Fire (Volunteer)	535,999				
Crowley VFD (Volunteer)	41,455	\$211			
Crystal Lakes FPD (Volunteer)	282,570	10,000			
Del Norte Police (Old Hire)	1,515	6,472			
Denver Fire (Old Hire)	316,038,642	16,355,396	\$7,709		
Denver Police (Old Hire)	584,034,459	7,987,837			
Divide VFD (Volunteer)	478,106	12,000			
Donald Westcott FPD (Volunteer)	906,979				
Dove Creek FPD (Volunteer)	400,232	74,749			
Durango Fire (Old Hire)	994,944	126,278			
Durango Police (Old Hire)	1,518,834	122,870			
Durango FPD (Volunteer)	5,266,085	162,215			
Eads Fire (Volunteer)	146,550	1,000			
East Grand FPD #4 (Volunteer)	1,987,271	60,000			
Eaton FPD (Volunteer)	1,299,784	125,960			
Eckley Fire (Volunteer)	22,353	2,509			
Elbert FPD & Rescue (Volunteer)	198,943				
Elizabeth FPD (Volunteer)	1,035,475	44,811			
Elk Creek FPD (Volunteer)	2,595,088	53,340			
Englewood Fire (Old Hire)	5,743,106	283,390			
Englewood Police (Old Hire)	4,110,223	445,045			
Englewood Fire (Volunteer)	43,008	5,975			
Evans FPD (Volunteer)	675,384	88,000			
Evergreen FPD (Volunteer)	4,478,443	225,000			
Falcon FPD (Volunteer)	562,846	20,000			
Federal Heights Fire (Volunteer)	2,890,801				
Fisher's Peak FPD (Volunteer)	186,818	3,100			
Florence FPD (Volunteer)	1,766,671	135,400			
Foothills Fire & Rescue (Volunteer)	1,554,497	110,000			
Fort Lewis Mesa FPD (Volunteer)	363,837	13,279			
Fort Morgan Fire (Volunteer)	1,158,500	91,820			
Fort Morgan Rural FPD (Volunteer)	813,990				
Fort Morgan Police (Old Hire)	414,976	99,660			
Franktown FPD (Volunteer)	3,057,518	36,000			
Frederick Firestone FPD (Volunteer)	125,514	10,003			
Galeton FPD (Volunteer)	1,286,412	216,152			
Genesee FPD (Volunteer)	1,450,690	90,000			
Glacier View FPD (Volunteer)	286,462	5,900			
Glendale Fire (Volunteer)	213,803				
Glenwood Springs Fire (Volunteer)	642,829	30,000			
Golden Fire (Volunteer)	2,749,560	150,000			
Golden Gate FPD (Volunteer)	304,267	8,352			



State Contributions	Net Investment Income	Benefit Payments	Refunds	Administrative and Pension Expenses	Change in Fiduciary Net Position	Fiduciary Net Position Dec 31, 2017
\$40,500	\$454,658	\$(171,360)	\$(1,300)	\$(13,027)	\$309,471	\$3,483,085
	77,810	(13,680)		(2,331)	61,799	597,798
	5,882	(180)		(3,458)	2,455	43,910
5,850	41,471	(7,560)	(1,300)	(3,834)	44,627	327,197
	785	(3,000)		(689)	3,568	5,083
	44,879,155	(42,893,023)	(410)	(145,934)	18,202,893	334,241,535
	82,545,492	(56,248,498)	(220)	(193,871)	34,090,740	618,125,199
10,800	69,416	(19,016)		(6,740)	66,460	544,566
	128,233	(64,320)	(1,300)	(4,961)	57,652	964,631
60,328	52,577	(98,560)		(11,249)	77,845	478,077
	130,706	(257,593)		(2,003)	(2,612)	992,332
	204,149	(304,342)		(2,004)	20,673	1,539,507
38,552	738,307	(496,563)		(28,998)	413,513	5,679,598
1,000	20,848	(5,400)		(6,176)	11,272	157,822
36,000	285,268	(157,440)	(1,457)	(14,154)	208,217	2,195,488
23,475	180,503	(164,483)	(1,300)	(11,813)	152,342	1,452,126
	2,752	(3,490)		(5,714)	(3,943)	18,410
	28,677	(4,815)		(4,585)	19,277	218,220
18,220	142,580	(169,425)		(6,089)	30,097	1,065,572
24,000	371,441	(185,120)	(9,041)	(21,018)	233,602	2,828,690
	793,209	(939,959)	(1,000)	(7,830)	127,810	5,870,916
	570,932	(861,594)	(1,000)	(7,077)	146,306	4,256,529
	5,040	(21,600)	(120)	(2,143)	(12,848)	30,160
22,123	90,305	(134,865)		(6,927)	58,636	734,020
80,000	645,442	(415,260)	(1,300)	(33,884)	499,998	4,978,441
11,340	75,531	(95,550)	(1,300)	(6,088)	3,933	566,779
	425,112	(11,340)	(1,885)	(4,023)	407,864	3,298,665
2,790	27,286			(5,713)	27,463	214,281
67,777	261,370	(147,720)	(1,300)	(19,228)	296,299	2,062,970
33,120	223,581	(148,800)		(18,664)	199,237	1,753,734
4,343	51,262	(35,294)		(5,713)	27,877	391,714
58,447	157,663	(193,437)	(1,300)	(14,906)	98,287	1,256,787
36,221	111,660	(101,058)		(14,530)	32,293	846,283
	56,184	(159,194)	(650)	(1,065)	(5,065)	409,911
32,400	450,906	(60,025)		(7,303)	451,978	3,509,496
9,003	16,350	(31,200)		(3,645)	511	126,025
6,741	187,524	(67,538)	(1,300)	(6,089)	335,490	1,621,902
14,400	203,886	(133,042)	(5,941)	(14,718)	154,585	1,605,275
	41,172	(13,200)		(4,596)	29,276	315,738
	30,443	(10,980)		(3,270)	16,193	229,996
18,900	86,175	(111,870)	(1,300)	(5,901)	16,004	658,833
77,940	387,082	(392,081)		(20,167)	202,774	2,952,334
7,392	43,606	(23,475)		(3,082)	32,793	337,060

## Fiduciary Net Position by Participating Employer

Employer Plan	Fiduciary Net Position Dec 31, 2016	Employer Contributions	Member Contributions	Contributions for Service Reinstatement	Affiliations/ (Withdrawals)
Grand FPD #1 (Volunteer)	\$1,283,843	\$95,000			
Grand Junction Fire (Old Hire)	8,173,642	320,273			
Grand Junction Police (Old Hire)	3,733,382				
Grand Lake FPD (Volunteer)	1,596,069				
Grand Valley FPD (Volunteer)	3,586,442				
Greeley Police (Old Hire)	687,611	99,957			
Greeley (Union Colony) Fire (Old Hire)	8,362,898				
Green Mountain Falls-Chipita Park FPD (Volunteer)	259,076	16,003			
Gypsum FPD (Volunteer)	615,262	22,704			
Hartsel FPD (Volunteer)	660,440	58,320			
Haxtun Fire (Volunteer)	172,744	7,028			
Haxtun Police (Old Hire)	131,993	13,404			
Hillrose Rural FPD (Volunteer)	290,696	26,000			
Holyoke Fire (Volunteer)	219,724	9,934			
Holyoke FPD (Volunteer)	192,513	9,600			
Hot Sulphur Springs/Parshall FPD (Volunteer)	243,305	4,500			
Hygiene FPD (Volunteer)	1,223,924	35,463			
Indian Hills FPD (Volunteer)	305,312	15,000			
Inter-Canyon FPD (Volunteer)	1,499,297	105,679			
Jackson 105 FPD (Volunteer)	279,095	14,584			
Jefferson-Como FPD (Volunteer)	1,157,094				
Kiowa FPD (Volunteer)	799,902				
Kremmling FPD (Volunteer)	469,436	40,410			
La Junta Fire (Old Hire)	761,457	60,388			
La Junta Police (Old Hire)	649,139	55,128			
La Junta Fire (Volunteer)	566,930				
La Salle Police (Old Hire)	1,222,624	7,210	7,210		
La Salle FPD (Volunteer)	2,783,985	160,569			
Lafayette Fire (Volunteer)	1,315,731	119,164			
Lake City Area FPD (Volunteer)	98,852	2,700			
Lake Dillon FPD (Volunteer)	3,814,767	91,082			
Lake George FPD (Volunteer)	323,143	9,500			
Lakewood FPD (Old Hire)	12,301,503	142,931			
Lamar Fire (Old Hire)	896,324				
Lamar Fire (Volunteer)	865,304	14,200			
Larkspur FPD (Volunteer)	1,426,723	62,000			
Las Animas Police (Old Hire)	250,143				
Leadville Fire (Old Hire)	129,550	15,624			
Lefthand FPD (Volunteer)	1,259,882				
Lewis-Arriola FPD (Volunteer)	1,336,216	85,000			
Limon Area FPD (Volunteer)	637,230	5,000			
Livermore FPD (Volunteer)	187,111	5,000			
Log Hill Mesa FPD (Volunteer)	356,736	20,600			

State Contributions	Net Investment Income	Benefit Payments	Refunds	Administrative and Pension Expenses	Change in Fiduciary Net Position	Fiduciary Net Position Dec 31,2017
\$31,557	\$181,732	\$(192,500)		\$(9,995)	\$105,794	\$1,389,637
	1,137,348	(1,152,099)		(6,890)	298,632	8,472,274
	515,966	(425,944)		(3,131)	86,891	3,820,273
	227,387	(98,301)		(4,210)	124,876	1,720,945
	516,713	(147,958)	\$(1,300)	(7,114)	360,341	3,946,783
	93,431	(135,852)		(1,816)	55,720	743,331
	1,143,151	(1,122,974)		(5,950)	14,227	8,377,125
10,424	35,734	(33,012)		(4,960)	24,189	283,265
11,952	87,185	(62,420)		(5,901)	53,520	668,782
9,000	92,887	(87,035)		(7,867)	65,305	725,745
4,297	24,347	(12,126)		(10,309)	13,237	185,981
	18,322	(22,665)		(689)	8,372	140,365
	41,717	(13,860)	(1,300)	(6,277)	46,280	336,976
8,331	30,917	(15,884)		(10,122)	23,176	242,900
8,640	26,354	(32,260)		(15,845)	(3,511)	189,002
4,050	34,696	(15,000)		(3,834)	24,412	267,717
33,003	175,459	(65,430)		(11,061)	167,434	1,391,358
12,399	41,480	(44,250)		(7,028)	17,601	322,913
18,500	209,729	(154,950)	(4,661)	(14,155)	160,142	1,659,439
13,126	38,642	(37,429)		(6,089)	22,834	301,929
	167,049	(37,680)	(5,478)	(5,148)	118,743	1,275,837
	114,930	(32,580)		(6,927)	75,423	875,325
11,250	67,006	(54,495)		(4,565)	59,606	529,042
	103,955	(115,382)		(1,252)	47,709	809,166
	87,372	(114,666)		(1,065)	26,769	675,908
	82,197	(13,163)	(1,300)	(5,437)	62,297	629,227
	181,428			(687)	195,161	1,417,785
45,770	395,340	(349,000)	(1,300)	(12,188)	239,191	3,023,176
42,222	179,646	(215,069)		(9,182)	116,781	1,432,512
2,430	14,522	(1,200)		(3,457)	14,995	113,847
81,974	535,193	(442,200)		(10,873)	255,176	4,069,943
	45,692	(22,680)		(4,774)	27,738	350,881
	1,688,685	(1,580,628)		(7,641)	243,347	12,544,850
	129,277	(31,706)		(688)	96,883	993,207
12,780	127,194	(12,000)		(9,182)	132,992	998,296
28,338	198,920	(174,862)	(1,300)	(8,243)	104,853	1,531,576
	32,542	(53,439)		(1,065)	(21,962)	228,181
	17,046	(27,990)		(1,065)	3,615	133,165
	180,462	(58,600)	(1,300)	(9,934)	110,628	1,370,510
17,435	191,680	(129,361)		(12,564)	152,190	1,488,406
4,500	91,508	(26,250)		(7,780)	66,978	704,208
4,500	26,686	(9,240)		(6,089)	20,857	207,968
18,445	51,697	(19,617)		(9,282)	61,843	418,579

## Fiduciary Net Position by Participating Employer

Employer Plan	Fiduciary Net Position Dec 31, 2016	Employer Contributions	Member Contributions	Contributions for Service Reinstatement	Affiliations/ (Withdrawals)
Loveland Fire (Old Hire)	\$113,798				
Loveland & Rural Consolidated VFD (Volunteer)	2,644,400	\$101,670			
Lower Valley FPD (Volunteer)	1,657,974	116,492			
Lyons FPD (Volunteer)	1,130,801	30,691			
Mancos FPD (Volunteer)	990,240	27,579			
Manitou Springs Fire (Old Hire)	322,140	16,959			
Manitou Springs VFD (Volunteer)	340,752	16,000			
Manzanola Rural FPD (Volunteer)	188,598	3,477			
Milliken FPD (Volunteer)	558,506				\$(538,343)
Montrose FPD (Old Hire)	95,356	24,319			
Montrose FPD (Volunteer)	590,007	34,000			
Mountain View FPD (Old Hire)	287,186	3,295			
Mountain View FPD (Volunteer)	2,264,434	24,081			
Nederland FPD (Volunteer)	685,311	26,540			
New Raymer/Stoneham FPD (Volunteer)	857,274	229,220			
North Fork FPD (Volunteer)	292,743	30,000			
North Routt County Fire (Volunteer)	272,009				
Northeast Teller County FPD (Volunteer)	577,095	35,962			
North-West FPD (Volunteer)	299,489	20,000			
Northwest Conejos FPD (Volunteer)	487,901	14,517			
Norwood FPD (Volunteer)	464,830	26,604			
Nucla-Naturita FPD (Volunteer)	659,819				
Nunn FPD (Volunteer)	959,546	22,770			
Oak Creek FPD (Volunteer)	346,971	64,081			
Olathe FPD (Volunteer)	631,403	50,000			
Olney Springs Fire (Volunteer)	170,115				
Ordway Fire (Volunteer)	214,323	500			
Ouray VFD (Volunteer)	523,967	18,000			
Palisade VFD (Volunteer)	970,837	17,804			
Palmer Lake Fire (Volunteer)	25,166				
Parker FPD (Volunteer)	315,254	28,670			
Pawnee FPD (Volunteer)	184,100	3,500			
Peetz FPD (Volunteer)	306,407				
Peyton FPD (Volunteer)	56,381	3,000			
Pinewood Springs VFD (Volunteer)	188,192	4,723			
Plateau Valley FPD (Volunteer)	1,698,363	52,357			
Platte Canyon FPD (Volunteer)	1,036,133	24,900			
Platte Valley FPD (Volunteer)	2,176,113				
Platteville/Gilcrest FPD (Volunteer)	4,125,228	50,000			
Pleasant View Metro Fire District (Volunteer)	1,800,099				
Poudre Canyon FPD (Volunteer)	110,034	5,123			
Poudre Fire Authority (Volunteer)	108,149	4,035			
Pueblo Fire (Old Hire)	33,277,756	1,545,814			

State Contributions	Net Investment Income	Benefit Payments	Refunds	Administrative and Pension Expenses	Change in Fiduciary Net Position	Fiduciary Net Position Dec 31, 2017
	\$14,591	\$(26,777)		\$(689)	\$(12,875)	\$100,923
	360,132	(398,494)	\$(1,300)	(13,591)	48,417	2,692,817
\$29,406	252,371	(90,310)		(9,746)	298,213	1,956,187
14,630	163,984	(47,227)		(12,753)	149,325	1,280,126
	145,379	(15,240)		(4,398)	153,320	1,143,560
	45,694	(39,508)		(689)	22,456	344,596
	46,005	(56,700)		(10,872)	(5,567)	335,185
3,038	27,226	(5,760)	(1,300)	(4,398)	22,283	210,881
	34,107	(52,653)	121	(1,738)	(558,506)	0
	13,149	(34,612)		(877)	1,979	97,335
22,500	84,532	(80,040)	(1,300)	(4,209)	55,483	645,490
	38,230	(51,565)		(689)	(10,729)	276,457
	315,112	(227,120)		(16,885)	95,188	2,359,622
4,500	99,496	(34,688)		(4,961)	90,887	776,198
219,964	132,230	(14,400)		(4,961)	562,053	1,419,327
6,693	41,832	(24,150)		(8,618)	45,757	338,500
15,057	37,908	(29,460)		(4,773)	18,732	290,741
	80,402	(61,920)		(5,900)	48,544	625,639
	39,534	(58,734)		(4,210)	(3,410)	296,079
12,286	68,497	(43,218)		(16,509)	35,573	523,474
12,666	68,780	(13,282)		(7,867)	86,901	551,731
17,886	94,465	(35,768)		(7,867)	68,716	728,535
18,801	140,856	(15,405)	(2,718)	(4,210)	160,094	1,119,640
18,355	51,678	(61,780)		(5,525)	66,809	413,780
14,442	87,270	(89,000)	(1,300)	(8,806)	52,606	684,009
	24,183	(8,550)		(3,458)	12,175	182,290
450	30,540	(9,750)		(5,713)	16,027	230,350
15,843	75,628	(22,248)		(10,497)	76,726	600,693
18,379	138,461	(59,176)		(12,188)	103,280	1,074,117
13,662	4,128	(12,000)		(6,464)	(674)	24,492
	41,017	(70,308)		(4,773)	(5,394)	309,860
3,150	27,130	(780)		(3,082)	29,918	214,018
9,000	45,045			(4,585)	49,460	355,867
5,400	8,524	(1,200)		(3,458)	12,266	68,647
8,580	26,967	(8,010)	(1,300)	(4,773)	26,187	214,379
	245,286	(70,140)		(6,927)	220,576	1,918,939
	146,075	(90,387)	(1,300)	(7,303)	71,985	1,108,118
	309,459	(136,640)		(10,122)	162,697	2,338,810
79,185	574,055	(463,262)	(1,300)	(11,813)	226,865	4,352,093
1,200	261,847	(36,960)		(11,625)	214,462	2,014,561
4,359	16,052			(9,182)	16,352	126,386
3,632	15,013	(11,745)		(2,143)	8,792	116,941
	4,671,463	(4,451,570)	(1,068)	(25,116)	1,739,523	35,017,279

## Fiduciary Net Position by Participating Employer

Employer Plan	Fiduciary Net Position Dec 31, 2016	Employer Contributions	Member Contributions	Contributions for Service Reinstatement	Affiliations/ (Withdrawals)
Pueblo Fire (DROP)	\$940,806		\$63,997		
Pueblo Police (Old Hire)	47,321,283	\$1,542,672			
Pueblo Rural FPD (Old Hire)	1,719,112	51,207			
Rangely Rural FPD (Volunteer)	590,314	19,840			
Rattlesnake FPD (Volunteer)	1,030,989	30,817			
Red Feather Lakes FPD (Volunteer)	313,200	15,176			
Red White & Blue FPD (Old Hire)	216,787	48,265			
Red White & Blue FPD (Volunteer)	1,229,783				
Ridgway FPD (Volunteer)	665,771				
Rio Blanco FPD (Volunteer)	4,441,121	305,766			
Rocky Ford Police (Old Hire)	175,625				
Rocky Ford Fire (Volunteer)	91,959	3,326			
Rocky Mountain VFD (Volunteer)	337,412				
Sable Altura FPD (Volunteer)	535,957	5,000			
Salida Fire (Old Hire)	106,143	14,074			
Salida Police (Old Hire)	500,666	75,808			
Sheridan Fire (Volunteer)	317,503	44,000			
Silverton San Juan FRA (Volunteer)	288,657	20,000			
South Adams County FPD (Old Hire)	525,827	50,000			
South Adams County FPD (Volunteer)	6,187,588	78,340			
South Arkansas FPD (Volunteer)	143,262				
South Conejos FPD (Volunteer)	249,327	12,288			
South Metro Fire Rescue (Volunteer)	306,999				
Southwest Washington County FPD (Volunteer)	154,182	3,000			
Springfield Police (Old Hire)	411,335				
Springfield Fire (Volunteer)	152,816	2,199			
Steamboat Springs VFD (Volunteer)	1,267,084	29,000			
Sterling Fire (Old Hire)	661,829	64,508			
Sterling Police (Old Hire)	282,700				
Sterling Fire (Volunteer)	395,196	13,881			
Stonewall FPD (Volunteer)	944,255	50,000			
Stratton FPD (Volunteer)	150,886	3,500			
Sugar City Fire (Volunteer)	98,396				
Sugarloaf FPD (Volunteer)	388,382	34,500			
Telluride FPD (Volunteer)	1,923,768	123,000			
Thornton Fire (Old Hire)	4,095,174	551,130			
Thornton Fire (DROP)	301,031		80,001		
Timberline FPD (Volunteer)	1,648,958	15,300			
Trinidad Fire (Old Hire)	597,885	72,529			
Trinidad Police (Old Hire)	37,316	13,070			
Walsh VFD (Volunteer)	84,935	2,000			
Wellington FPD (Volunteer)	1,515,508				
West Cheyenne FPD (Volunteer)	157,348	2,000			

State Contributions	Net Investment Income	Benefit Payments	Refunds	Administrative and Pension Expenses	Change in Fiduciary Net Position	Fiduciary Net Position Dec 31, 2017
	\$136,483				\$200,480	\$1,141,286
	6,655,301	\$(5,543,482)		\$(21,357)	2,633,134	49,954,417
	235,124	(233,659)		(2,004)	50,668	1,769,780
\$5,166	85,611	(41,160)		(8,055)	61,402	651,716
12,600	144,949	(87,154)	\$(1,300)	(12,651)	87,261	1,118,250
	43,265	(36,000)		(4,497)	17,944	331,144
	29,109	(73,252)		(876)	3,246	220,033
	173,571	(90,854)		(7,491)	75,226	1,305,009
	95,737	(24,600)	(1,300)	(6,564)	63,273	729,044
29,473	662,147	(266,760)	(1,300)	(13,027)	716,299	5,157,420
	21,820	(50,198)		(876)	(29,254)	146,371
2,170	13,318	(1,375)		(6,739)	10,700	102,659
	45,564	(47,840)		(5,903)	(8,179)	329,233
	75,396	(39,600)		(9,936)	30,860	566,817
	14,283	(27,391)		(1,064)	(98)	106,045
	68,209	(129,025)		(1,628)	13,364	514,030
23,194	39,305	(101,796)	(1,300)	(4,585)	(1,182)	316,321
10,813	41,785	(12,480)		(8,994)	51,124	339,781
	73,431	(78,002)		(877)	44,552	570,379
70,506	864,216	(659,690)		(16,409)	336,963	6,524,551
	19,316	(19,845)	(1,300)	(2,143)	(3,972)	139,290
11,059	34,710	(23,853)		(8,618)	25,586	274,913
	42,320	(34,907)		(3,458)	3,955	310,954
9,000	22,102	(7,060)		(5,149)	21,893	176,075
	57,096	(44,000)		(689)	12,407	423,742
1,979	22,115	(3,140)		(4,022)	19,131	171,947
21,600	178,089	(132,015)		(6,277)	90,397	1,357,481
	91,073	(115,767)		(1,252)	38,562	700,391
	40,095	(19,409)		(689)	19,997	302,697
12,493	55,263	(42,720)		(6,176)	32,741	427,937
9,450	139,224	(44,385)		(8,055)	146,234	1,090,489
3,150	21,748	(8,238)		(4,021)	16,139	167,025
	13,869	(4,800)		(4,024)	5,045	103,441
12,022	55,499	(43,725)		(9,746)	48,550	436,932
69,156	271,831	(203,760)	(1,300)	(20,731)	238,196	2,161,964
	607,804	(788,438)		(4,259)	366,237	4,461,411
	47,675				127,676	428,707
13,770	230,522	(168,096)	(1,300)	(13,779)	76,417	1,725,375
	85,284	(104,242)		(1,628)	51,943	649,828
	4,984	(17,624)		(1,440)	(1,010)	36,306
1,000	12,485			(4,210)	11,275	96,210
	211,259	(146,100)	(1,300)	(7,491)	56,368	1,571,876
1,800	22,548	(4,800)		(5,713)	15,835	173,183

## Fiduciary Net Position by Participating Employer

Employer Plan	Fiduciary Net Position Dec 31, 2016	Employer Contributions	Member Contributions	Contributions for Service Reinstatement	Affiliations/ (Withdrawals)
West Douglas County FPD (Volunteer)	\$527,848	\$27,395			
West Metro FPD (Volunteer)	731,446	21,604			
West Routt FPD (Volunteer)	2,663,022	65,761			
Westminster VFD (Volunteer)	2,361,580				
Wet Mountain FPD (Volunteer)	1,836,236	48,970			
Wiggins Rural FPD (Volunteer)	1,107,872	120,000			
Wiley Rural FPD (Volunteer)	133,236	1,000			
Windsor Severance FPD (Volunteer)	2,694,847	66,249			
Yampa FPD (Volunteer)	421,211	20,000			
Yuma Fire (Volunteer)	552,509	10,000			
<b>Subtotal Affiliated Local Plans</b>	<b>\$1,516,013,519</b>	<b>\$49,127,883</b>	<b>\$158,917</b>	<b>\$0</b>	<b>\$(582,682)</b>
Contributions Receivable at 12/31/16	494,633	(455,595)	(1,055)		
Contributions Receivable at 12/31/17		600,260	797		
Changes in Net Pension Liability	(4,974,182)				
Pension Expense, Current Year					
<b>Total Affiliated Local Plans</b>	<b>\$1,511,533,970</b>	<b>\$49,272,548</b>	<b>\$158,659</b>	<b>\$0</b>	<b>\$(582,682)</b>
Statewide Death & Disability Plan	\$360,747,296		\$20,535,422		
Contributions Receivable at 12/31/16	370,205		(370,205)		
Contributions Receivable at 12/31/17			533,429		
Changes in Net Pension Liability	(1,183,646)				
Pension Expense, Current Year					
<b>Total Statewide Death &amp; Disability Plan</b>	<b>\$359,933,855</b>	<b>\$0</b>	<b>\$20,698,646</b>	<b>\$0</b>	<b>\$0</b>



State Contributions	Net Investment Income	Benefit Payments	Refunds	Administrative and Pension Expenses	Change in Fiduciary Net Position	Fiduciary Net Position Dec 31, 2017
\$19,521	\$72,334	\$(70,508)		\$(14,630)	\$34,112	\$561,960
19,444	103,012	(66,975)		(6,927)	70,158	801,604
32,500	381,495	(179,584)		(8,430)	291,742	2,954,764
	334,535	(167,160)		(6,089)	161,286	2,522,866
24,110	266,156	(114,984)		(8,994)	215,258	2,051,494
90,000	161,825	(63,000)	\$(1,300)	(8,055)	299,470	1,407,342
	19,280	(2,400)		(3,458)	14,422	147,658
59,624	377,238	(279,550)	(1,300)	(10,585)	211,676	2,906,523
8,175	59,083	(46,420)		(5,712)	35,126	456,337
9,000	79,967	(18,575)	(1,300)	(10,121)	68,971	621,480
<b>\$2,839,453</b>	<b>\$214,570,378</b>	<b>\$(168,478,600)</b>	<b>\$(140,874)</b>	<b>\$(2,033,565)</b>	<b>\$95,460,910</b>	<b>\$1,611,474,429</b>
(37,983)					(494,633)	0
155,945					757,002	757,002
				391,745	391,745	(4,582,437)
				(2,194,466)	(2,194,466)	(2,194,466)
<b>\$2,957,415</b>	<b>\$214,570,378</b>	<b>\$(168,478,600)</b>	<b>\$(140,874)</b>	<b>\$(3,836,286)</b>	<b>\$93,920,558</b>	<b>\$1,605,454,528</b>
	\$52,449,216	\$(28,157,074)		\$(1,881,828)	\$42,945,736	\$403,693,032
					(370,205)	0
					533,429	533,429
				211,564	211,564	(972,082)
				(725,611)	(725,611)	(725,611)
<b>\$0</b>	<b>\$52,449,216</b>	<b>\$(28,157,074)</b>	<b>\$0</b>	<b>\$(2,395,875)</b>	<b>\$42,594,913</b>	<b>\$402,528,768</b>

## Fiduciary Net Position by Participating Employer

Employer Plan	Fiduciary Net Position Dec 31, 2016	Employer Contributions	Member Contributions	Contributions for Service Reinstatement	Affiliations/ (Withdrawals)
Statewide Defined Benefit Plan	\$1,985,393,043	\$44,362,720	\$156,430,319		
Statewide Defined Benefit Plan (SRA Periodic Payments)	155,871				
<b>Subtotal Statewide Defined Benefit Plan</b>	<b>\$1,985,548,914</b>	<b>\$44,362,720</b>	<b>\$156,430,319</b>	<b>\$0</b>	<b>\$0</b>
Contributions Receivable at 12/31/16	1,501,066	(706,553)	(794,513)		
Contributions Receivable at 12/31/17		988,496	1,176,089		
Changes in Net Pension Liability	(6,514,772)				
Pension Expense, Current Year					
<b>Total Statewide Defined Benefit Plan</b>	<b>\$1,980,535,208</b>	<b>\$44,644,663</b>	<b>\$156,811,895</b>	<b>\$0</b>	<b>\$0</b>
Statewide Hybrid Plan - Defined Benefit Component	\$53,087,030	\$1,304,938	\$8,956,842		
Contributions Receivable at 12/31/16	25,795	(18,863)	(6,932)		
Contributions Receivable at 12/31/17		34,612	17,488		
Changes in Net Pension Liability	(174,184)				
Pension Expense, Current Year					
<b>Total Statewide Hybrid Plan - Defined Benefit Component</b>	<b>\$52,938,641</b>	<b>\$1,320,687</b>	<b>\$8,967,398</b>	<b>\$0</b>	<b>\$0</b>
Colorado Springs New Hire Plan - Fire Component	\$126,527,898	\$4,181,089	\$1,083,453		
Colorado Springs New Hire Plan - Fire Component (SRA Periodic Payments)	89,420				
Contributions Receivable at 12/31/16	252,323	(214,810)	(37,513)		
Contributions Receivable at 12/31/17		261,135	36,396		
Changes in Net Pension Liability	(415,443)				
Pension Expense, Current Year					
<b>Total Colorado Springs New Hire Plan - Fire Component</b>	<b>\$126,454,198</b>	<b>\$4,227,414</b>	<b>\$1,082,336</b>	<b>\$0</b>	<b>\$0</b>
Colorado Springs New Hire Plan - Police Component	\$277,111,969	\$8,433,311	\$2,319,332		
Colorado Springs New Hire Plan - Police Component (SRA Periodic Payments)	494,190				
Contributions Receivable at 12/31/16	467,382	(387,951)	(79,431)		
Contributions Receivable at 12/31/17		418,701	71,397		
Changes in Net Pension Liability	(910,852)				
Pension Expense, Current Year					
<b>Total Colorado Springs New Hire Plan - Police Component</b>	<b>\$277,162,689</b>	<b>\$8,464,061</b>	<b>\$2,311,298</b>	<b>\$0</b>	<b>\$0</b>
FPPA Staff Healthcare Subsidy	\$238,033	\$8,261			
Changes in Net Pension Liability	(780)				
Pension Expense, Current Year					
<b>FPPA Staff Healthcare Subsidy</b>	<b>\$237,253</b>	<b>\$8,261</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total - Members' Benefit Investment Fund</b>	<b>\$4,308,795,814</b>	<b>\$107,937,634</b>	<b>\$190,030,232</b>	<b>\$0</b>	<b>\$(582,682)</b>

State Contributions	Net Investment Income	Benefit Payments	Refunds	Administrative and Pension Expenses	Change in Fiduciary Net Position	Fiduciary Net Position Dec 31, 2017
	\$298,378,848	\$(65,965,013)	\$(2,187,599)	\$(3,135,872)	\$427,883,403	\$2,413,276,446
	11,651	(12,000)		(60)	(409)	155,462
<b>\$0</b>	<b>\$298,390,499</b>	<b>\$(65,977,013)</b>	<b>\$(2,187,599)</b>	<b>\$(3,135,932)</b>	<b>\$427,882,994</b>	<b>\$2,413,431,908</b>
					(1,501,066)	0
					2,164,585	2,164,585
				387,829	387,829	(6,126,943)
				(4,022,517)	(4,022,517)	(4,022,517)
<b>\$0</b>	<b>\$298,390,499</b>	<b>\$(65,977,013)</b>	<b>\$(2,187,599)</b>	<b>\$(6,770,620)</b>	<b>\$424,911,825</b>	<b>\$2,405,447,033</b>
	\$8,122,829	\$(1,493,664)	\$(27,870)	\$(77,914)	\$16,785,161	\$69,872,191
					(25,795)	0
					52,100	52,100
				10,138	10,138	(164,046)
				(129,795)	(129,795)	(129,795)
<b>\$0</b>	<b>\$8,122,829</b>	<b>\$(1,493,664)</b>	<b>\$(27,870)</b>	<b>\$(197,571)</b>	<b>\$16,691,809</b>	<b>\$69,630,450</b>
	\$18,445,141	\$(7,983,856)	\$(159,851)	\$(58,095)	\$15,507,881	\$142,035,779
	6,717	(6,000)		(20)	697	90,117
					(252,323)	0
					297,531	297,531
				11,309	11,309	(404,134)
				(193,563)	(193,563)	(193,563)
<b>\$0</b>	<b>\$18,451,858</b>	<b>\$(7,989,856)</b>	<b>\$(159,851)</b>	<b>\$(240,369)</b>	<b>\$15,371,532</b>	<b>\$141,825,730</b>
	\$40,741,455	\$(12,859,508)	\$(18,007)	\$(122,454)	\$38,494,129	\$315,606,098
	37,683	(18,141)		(140)	19,402	513,592
					(467,382)	0
					490,098	490,098
				25,082	25,082	(885,770)
				(443,641)	(443,641)	(443,641)
<b>\$0</b>	<b>\$40,779,138</b>	<b>\$(12,877,649)</b>	<b>\$(18,007)</b>	<b>\$(541,153)</b>	<b>\$38,117,688</b>	<b>\$315,280,377</b>
	\$34,391	\$(7,309)		\$(4,510)	\$30,833	\$268,866
				969	969	189
				(1,320)	(1,320)	(1,320)
<b>\$0</b>	<b>\$34,391</b>	<b>\$(7,309)</b>	<b>\$0</b>	<b>\$(4,861)</b>	<b>\$30,482</b>	<b>\$267,735</b>
<b>\$2,957,415</b>	<b>\$632,798,309</b>	<b>\$(284,981,165)</b>	<b>\$(2,534,201)</b>	<b>\$(13,986,735)</b>	<b>\$631,638,807</b>	<b>\$4,940,434,621</b>

## Fiduciary Net Position by Participating Employer

Employer Plan	Fiduciary Net Position Dec 31, 2016	Employer Contributions	Member Contributions	Contributions for Service Reinstatement	Affiliations/ (Withdrawals)
Members' Statewide Money Purchase Plan	\$10,125,774	\$436,251	\$423,049		
Contributions Receivable at 12/31/16	19,219	(9,598)	(9,621)		
Contributions Receivable at 12/31/17		11,801	12,008		
<b>Total Members' Statewide Money Purchase Plan</b>	<b>\$10,144,993</b>	<b>\$438,454</b>	<b>\$425,436</b>	<b>\$0</b>	<b>\$0</b>
<b>Self-Directed Assets for Affiliated Local &amp; DB System</b>					
Statewide Defined Benefit Plan (SRA)	\$22,411,984		\$4,645,415		
Statewide Defined Benefit Plan (DROP)	61,543,732		19,813,279		
Statewide Hybrid Plan - Money Purchase Component	132,936,420	\$1,619,487	2,301,975		\$102,265,127
Statewide Hybrid Plan (DROP)	706,120		281,992		
Colorado Springs New Hire Plan - Fire Component (DROP)	5,742,113		2,655,354		
Colorado Springs New Hire Plan - Fire Component (SRA)	9,147				
Colorado Springs New Hire Plan - Police Component (DROP)	14,455,020		3,820,402		
Aurora Fire (DROP)	2,128,058		101,427		
Aurora Police (DROP)	1,713,840				
Colorado Springs Fire (DROP)	575,644				
Colorado Springs Police (DROP)	984,130				
Denver Fire (DROP)	6,184,704				
Denver Police (DROP)	3,634,137		80,970		
Englewood Police (DROP)	108,344				
Pueblo Fire (DROP)	818,487				
<b>Subtotal Self Directed Assets for Affiliated Local &amp; DB System</b>	<b>\$253,951,880</b>	<b>\$1,619,487</b>	<b>\$33,700,814</b>	<b>\$0</b>	<b>\$102,265,127</b>
Contributions Receivable at 12/31/16	159,388	(51,259)	(108,129)		
Contributions Receivable at 12/31/17		56,208	126,540		
<b>Total Self-Directed Assets for Affiliated Local &amp; DB System</b>	<b>\$254,111,268</b>	<b>\$1,624,436</b>	<b>\$33,719,225</b>	<b>\$0</b>	<b>\$102,265,127</b>
IRC 457 Deferred Compensation Plan	\$112,304,748	\$1,373,190	\$9,832,774		
Contributions Receivable at 12/31/16	235,667	(26,055)	(209,612)		
Contributions Receivable at 12/31/17		38,593	317,306		
<b>Total IRC 457 Deferred Compensation Plan</b>	<b>\$112,540,415</b>	<b>\$1,385,728</b>	<b>\$9,940,468</b>	<b>\$0</b>	<b>\$0</b>
<b>Total - Members' Self Directed Investment Fund</b>	<b>\$376,796,676</b>	<b>\$3,448,618</b>	<b>\$44,085,129</b>	<b>\$0</b>	<b>\$102,265,127</b>
<b>Grand Total - FPPA</b>	<b>\$4,685,592,490</b>	<b>\$111,386,252</b>	<b>\$234,115,361</b>	<b>\$0</b>	<b>\$101,682,445</b>

State Contributions	Net Investment Income	Benefit Payments	Refunds	Administrative and Pension Expenses	Change in Fiduciary Net Position	Fiduciary Net Position Dec 31, 2017
	\$1,789,042		\$(304,189)	\$(34,013)	\$2,310,140	\$12,435,914
					(19,219)	0
					23,809	23,809
<b>\$0</b>	<b>\$1,789,042</b>	<b>\$0</b>	<b>\$(304,189)</b>	<b>\$(34,013)</b>	<b>\$2,314,730</b>	<b>\$12,459,723</b>
	\$2,501,954		\$(5,377,964)	\$(57,636)	\$1,711,769	\$24,123,753
	7,945,157		(14,388,714)	(174,961)	13,194,761	74,738,493
	22,440,492		(102,227,467)	(728,936)	25,670,678	158,607,098
	87,110		(24,806)	(5,017)	339,279	1,045,399
	901,630		(496,101)	(16,430)	3,044,453	8,786,566
	1,000		(6,000)	(20)	(5,020)	4,127
	2,075,168		(1,609,201)	(28,861)	4,257,508	18,712,528
	171,032		(382,354)	(3,138)	(113,033)	2,015,025
	175,694		(91,969)	(5,190)	78,535	1,792,375
	73,565		(57,981)	(937)	14,647	590,291
	50,813		(3,000)	(1,537)	46,276	1,030,406
	479,751		(1,319,803)	(8,395)	(848,447)	5,336,257
	237,903		(831,125)	(5,038)	(517,290)	3,116,847
	2,758		(111,062)	(40)	(108,344)	0
	47,479		(387,217)	(884)	(340,622)	477,865
<b>\$0</b>	<b>\$37,191,506</b>	<b>\$0</b>	<b>\$(127,314,764)</b>	<b>\$(1,037,020)</b>	<b>\$46,425,150</b>	<b>\$300,377,030</b>
					(159,388)	0
					182,748	182,748
<b>\$0</b>	<b>\$37,191,506</b>	<b>\$0</b>	<b>\$(127,314,764)</b>	<b>\$(1,037,020)</b>	<b>\$46,448,510</b>	<b>\$300,559,778</b>
	\$21,119,356		\$(5,463,548)	\$(240,586)	\$26,621,186	\$138,925,934
					(235,667)	0
					355,899	355,899
<b>\$0</b>	<b>\$21,119,356</b>	<b>\$0</b>	<b>\$(5,463,548)</b>	<b>\$(240,586)</b>	<b>\$26,741,418</b>	<b>\$139,281,833</b>
<b>\$0</b>	<b>\$60,099,904</b>	<b>\$0</b>	<b>\$(133,082,501)</b>	<b>\$(1,311,619)</b>	<b>\$75,504,658</b>	<b>\$452,301,334</b>
<b>\$2,957,415</b>	<b>\$692,898,213</b>	<b>\$(284,981,165)</b>	<b>\$(135,616,702)</b>	<b>\$(15,298,354)</b>	<b>\$707,143,465</b>	<b>\$5,392,735,955</b>

## Payments to Consultants

	<u>December 31, 2017</u>
<b>Actuarial Consultants</b>	
Gabriel Roeder Smith & Co.	\$345,899
<b>Auditors</b>	
CliftonLarsonAllen LLP	75,800
Paragon Audit & Consulting, Inc.	10,855
BKD, LLP	10,335
<b>Investment Consultants</b>	
Albourne America LLC	400,000
Pension Consulting Alliance	295,000
AndCo Consulting, LLC	80,000
Subrosa Investigations, LLC	20,675
IW Financial	10,500
EIRIS Conflict Risk Network	1,000
<b>Legal Counsel</b>	
Jackson Walker LLP	203,831
Hoffman, Parker, Wilson & Carberry, P.C.	20,781
Thomas L. Kanan, Esq.	5,380
SJT Law, LLC	4,060
Ice Miller LLP	2,728
<b>Legislative Consultants</b>	
Lombard & Clayton	40,000
<b>Management Consultants</b>	
CoreySpeaks, LLC	9,680
Choose People	6,400
Calhoun Consulting Partners, LLC	1,800
Nicoletti-Flater Associates	438
<b>Medical Consultant</b>	
Clarence Henke, M.D., PC	49,156
<b>Recordkeeping Services</b>	
Fidelity Investments	241,893
<b>Total Payments To Consultants</b>	<b>\$1,836,211</b>

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## Schedule of Administrative and Investment Expenses

Fire &amp; Police Members' Benefit Investment Fund

Expense Group	2017	2016	2015	2014
<b>Professional Contracts</b>				
Actuarial Contract	\$343,251	\$367,009	\$412,412	\$292,328
Audit Fees	75,091	105,612	106,109	126,094
Computer Maintenance & Lease	524,983	508,417	454,390	523,686
Insurance & Bonding	180,919	165,166	160,289	149,391
Legal & Legislative Counsel	(34,263)	113,521	129,382	99,609
Management Consulting	102,256	68,887	17,064	24,781
Medical Exam Fees	253,255	243,204	202,733	230,698
Hearing Officers - D&D	9,440	17,444	7,801	22,028
Outside Services/Contract Help	62,431	106,074	57,324	55,928
Records Management	6,068	1,595	1,951	6,245
<b>Total Professional Contracts</b>	<b>\$1,523,431</b>	<b>\$1,696,929</b>	<b>\$1,549,455</b>	<b>\$1,530,788</b>
<b>Personnel Services</b>				
Salaries	\$3,495,905	\$3,286,289	\$3,036,727	\$3,033,856
Employee Benefits	1,304,530	1,048,276	927,428	1,000,083
Employment Programs	88,344	38,119	28,005	47,951
<b>Total Personnel Services</b>	<b>\$4,888,779</b>	<b>\$4,372,684</b>	<b>\$3,992,160</b>	<b>\$4,081,890</b>
<b>Staff Education</b>				
Tuition Assistance Program	\$33,409	\$37,867	\$19,200	\$45,369
Conferences & Seminars	33,110	27,233	26,589	25,932
<b>Total Staff Education</b>	<b>\$66,519</b>	<b>\$65,100</b>	<b>\$45,789</b>	<b>\$71,301</b>



2013	2012	2011	2010	2009	2008
\$288,200	\$288,000	\$324,000	\$272,000	\$453,000	\$301,000
61,285	59,555	57,875	56,220	39,000	37,500
532,616	494,693	367,028	225,997	344,595	98,328
138,761	155,438	121,532	158,784	111,335	124,258
244,073	123,582	141,701	73,035	64,159	100,376
6,050	0	21,624	23,375	29,400	277
184,795	187,797	144,008	157,822	144,441	122,377
21,284	22,773	23,948	13,625	13,965	9,954
77,096	39,585	58,411	53,392	54,705	58,599
6,220	6,913	6,366	5,972	5,726	9,899
<b>\$1,560,380</b>	<b>\$1,378,336</b>	<b>\$1,266,493</b>	<b>\$1,040,222</b>	<b>\$1,260,326</b>	<b>\$862,568</b>

\$2,853,094	\$3,740,834	\$3,161,744	\$2,952,056	\$2,839,136	\$2,588,431
851,929	1,128,226	888,233	829,521	747,331	640,571
18,032	18,087	16,980	6,728	22,134	147,601
<b>\$3,723,055</b>	<b>\$4,887,147</b>	<b>\$4,066,957</b>	<b>\$3,788,305</b>	<b>\$3,608,601</b>	<b>\$3,376,603</b>

\$48,424	\$16,927	\$18,214	\$13,429	\$8,800	\$20,348
25,786	25,299	22,028	21,321	19,788	34,893
<b>\$74,210</b>	<b>\$42,226</b>	<b>\$40,242</b>	<b>\$34,750</b>	<b>\$28,588</b>	<b>\$55,241</b>

## Schedule of Administrative and Investment Expenses

Fire &amp; Police Members' Benefit Investment Fund

Expense Group	2017	2016	2015	2014
<b>Other Operating Expenses</b>				
Company Vehicles	\$3,447	\$3,523	\$4,105	\$4,244
Board Expenses	57,820	51,682	66,905	56,292
Data Processing Supplies	70,933	48,961	81,986	76,736
Equipment Rental & Maintenance	27,195	41,712	40,946	35,690
Meetings & Travel	25,996	18,620	19,503	29,712
Operating Expense - Two DTC	136,803	117,211	134,161	128,204
Postage	21,452	28,664	30,702	22,166
Printing & Mailing	68,606	61,586	63,476	66,814
Retirement Services	17,816	18,362	15,047	13,935
Subscriptions & Dues	18,773	17,904	18,045	16,465
Supplies	43,252	21,946	27,127	47,471
Telephone	8,650	8,683	9,793	9,949
<b>Total Other Operating Expense</b>	<b>\$500,743</b>	<b>\$438,854</b>	<b>\$511,796</b>	<b>\$507,678</b>
<b>Total Operating Expense</b>	<b>\$6,979,472</b>	<b>\$6,573,567</b>	<b>\$6,099,200</b>	<b>\$6,191,657</b>
Change in Net Pension Liability	\$(1,038,636)	\$(920,107)	\$(802,974)	\$0
Depreciation/Amortization Expense	338,693	884,904	865,880	869,843
Delinquency Income	(3,707)	(1,687)	(30,843)	(4,738)
<b>Total Administrative Expense</b>	<b>\$6,275,822</b>	<b>\$6,536,677</b>	<b>\$6,131,263</b>	<b>\$7,056,762</b>
Capital Expenditures	\$689,303	\$596,117	\$339,823	\$470,437
<b>Total Administrative Expense and Capital</b>	<b>\$6,965,125</b>	<b>\$7,132,794</b>	<b>\$6,471,086</b>	<b>\$7,527,199</b>
<b>Asset Based Fees</b>				
Consulting	\$682,900	\$756,225	\$743,225	\$746,225
Management Fees	38,887,245	31,361,216	30,202,534	26,132,254
Legal Fees	236,959	325,366	252,619	451,784
Closing Costs	90,675	55,614	106,869	102,850
FPPA Investment Personnel Costs	2,844,633	2,518,564	2,375,749	1,667,279
Bank/Security Lending Fees	566,910	800,632	775,499	663,347
Other Misc. Expenses				
Certifications & Training	682			
Computer Software	499,187	245,760	129,853	112,157
Conferences & Seminars	10,375			
Meetings & Travel / Due Diligence	111,402	91,953	130,260	98,009
Subscriptions & Dues	14,983	11,165	5,375	5,200
Printing & Mailing Expense	0	4,527	4,457	4,763
<b>Total Asset Based Fees</b>	<b>\$43,945,951</b>	<b>\$36,171,022</b>	<b>\$34,726,440</b>	<b>\$29,983,868</b>

2013	2012	2011	2010	2009	2008
\$3,815	\$3,275	\$4,449	\$5,790	\$3,446	\$4,137
31,017	44,133	27,760	30,504	31,884	47,799
43,268	160,361	81,452	60,189	45,135	115,649
32,413	34,176	26,441	29,078	31,111	37,767
14,323	11,813	15,607	25,267	20,628	23,217
106,774	81,678	74,930	98,926	80,759	68,920
21,775	39,972	62,299	58,828	57,794	65,460
80,644	64,249	84,172	73,045	68,414	104,161
10,546	6,886	7,247	7,441	9,926	8,032
14,817	16,736	18,497	23,699	21,131	20,320
31,103	16,213	62,152	38,437	40,478	39,697
13,486	12,405	15,150	23,701	28,123	30,655
<b>\$403,981</b>	<b>\$491,897</b>	<b>\$480,156</b>	<b>\$474,905</b>	<b>\$438,829</b>	<b>\$565,814</b>
<b>\$5,761,626</b>	<b>\$6,799,606</b>	<b>\$5,853,848</b>	<b>\$5,338,682</b>	<b>\$5,336,344</b>	<b>\$4,860,226</b>
\$0	\$0	\$0	\$0	\$0	\$0
821,671	808,550	784,935	777,727	166,754	124,158
(22,690)	0	0	0	0	0
<b>\$6,560,607</b>	<b>\$7,608,156</b>	<b>\$6,638,783</b>	<b>\$6,116,409</b>	<b>\$5,503,098</b>	<b>\$4,984,384</b>
\$126,977	\$375,571	\$391,016	\$202,049	\$6,700	\$60,051
<b>\$6,687,584</b>	<b>\$7,983,727</b>	<b>\$7,029,799</b>	<b>\$6,318,458</b>	<b>\$5,509,798</b>	<b>\$5,044,435</b>
\$779,225	\$881,875	\$412,788	\$217,000	\$242,125	\$372,500
24,938,863	19,963,855	16,457,643	15,142,901	13,399,161	18,610,131
647,946	203,171	79,304	64,736	80,396	0
65,836	54,117	26,273	10,000	27,398	0
1,416,658	0	0	0	0	0
799,320	673,888	633,304	510,865	628,407	1,104,469
94,474	92,402	48,104	0	0	0
65,573	80,567	54,232	0	0	0
5,497	4,580	4,255	0	0	0
4,337	5,662	3,025	0	0	0
<b>\$28,817,729</b>	<b>\$21,960,117</b>	<b>\$17,718,928</b>	<b>\$15,945,502</b>	<b>\$14,377,487</b>	<b>\$20,087,100</b>

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This section of the comprehensive annual financial report has been prepared by the Investment Division of the Fire & Police Pension Association of Colorado.

J. Scott Simon, CFA  
Chief Investment Officer

The mission of the Fire and Police Pension Association 'to prudently investment member retirement funds' is facilitated by the management of various fund investment portfolios, which totaled \$5.393 billion in fair value as of December 31, 2017.

Specifically, the Association is responsible for administering two separate funds:

- The Fire & Police Members' Benefit Investment Fund (\$4.940 billion) defined benefit plans. General Information and data found on the following pages, and
- The Fire & Police Members' Self-Directed Investment Fund (\$452 million) defined contribution plans.





Dear Members:

The Fire & Police Members' Benefit Investment Fund returned +14.95% (net of fees) in 2017, outperforming its implementation benchmark of +13.64%. The Fund generated \$687 million in investment earnings ending the year at \$4.93 billion. The total fund has achieved a 9.48% annualized return since its inception.

### Market Overview

Capital markets experienced strong performance in 2017. An uptick in global economic activity helped lift expectations for corporate earnings growth across developed and emerging markets. FPPA's broad global public equity benchmark was up 24.32% for the year. Volatility within the equity markets remained at historic lows. The yield curve flattened with short term yields rising and long-term government yields remaining low. Combined with corporate bond spreads tightening, the Barclays U.S. Aggregate Bond Index had a solid year of performance at 3.54%. Citing strengthening economic conditions, the Federal Reserve hiked interest rates three times in 2017. The US Dollar ended the year down nearly 10% against a basket of major developed currencies.

### FPPA Asset Classes

- **Public Equity:** FPPA implements a global equity portfolio with meaningful exposure to Non-US equities. The portfolio benefited as Non-US markets significantly outperformed US markets in 2017. Emerging markets equities were the strongest performers with that index being up just over 37% for the year. FPPA's emerging markets did even better with a 45% annual return. With only a few exceptions, FPPA's other active managers contributed by outperforming their benchmarks for the year. The equity portfolio did experience a slight drag in performance from the currency overlay program given the depreciation of the US Dollar over the year.
- **Equity Long/Short:** FPPA's dedicated equity long/short portfolio had a solid year of performance. Surpassing its 5-year track record, since inception portfolio performance has exceeded its benchmark by 2.0% on an annualized basis. The program continues to perform well by providing solid equity performance at a significantly lower risk profile relative to the broader equity markets.
- **Fixed Income:** FPPA's fixed income portfolio performed relatively well attributable to our unconstrained strategies which have a heavier credit exposure and are designed to better manage through rising interest rate environments. FPPA added one new fixed income manager relationship this year with the hiring of Loomis Sayles for a core fixed income strategy.
- **Managed Futures:** Since 2014, FPPA has implemented a dedicated allocation to managed futures strategies. These strategies are designed to benefit from long-term market trends and provide attractive risk-adjusted and uncorrelated returns relative to traditional asset classes. While these strategies struggled for most of the year, the portfolio had a strong fourth quarter bringing it into positive performance territory for the year. Strong equity and commodities markets were the primary contributors.
- **Absolute Return:** Hedge funds strategies in general had a solid year of performance. The higher performing strategies included higher beta hedged equity strategies and emerging markets equity. FPPA's exposure to lower beta equity strategies, combined with some specific manager under performance, resulted in the portfolio slightly lagging its benchmark. A capital structure arbitrage fund and an additional multi-strategy fund were added to the portfolio during the year.
- **Illiquid Alternatives:** In 2017, FPPA committed \$258 million with eleven managers in various private capital, real estate and real assets strategies. FPPA continued its prudent multi-year process of reaching its long-term allocation target of 30% into these strategies. The aggregate illiquid alternatives portfolio had a solid year of performance, but slightly lagged its overall benchmark due to its real assets portfolio and a few underperforming funds.

The Investment Department continues to grow and is now a staff of 11 seasoned professionals. The staff is supported by a strong governance structure of the FPPA Board, Investment Committee and Executive Director which continues to provide the resources and flexibility necessary to execute the investment strategy. We look forward to another year of progress with implementing an investment program which will achieve the goals of the plan.

Best regards,

J. Scott Simon, CFA  
Chief Investment Officer

## General Information

The Members of the Association's Board of Directors serve as the fiduciaries for the Funds and are responsible for the investment of the Funds, or the selection of investment options available to defined contribution, deferred compensation and self-directed DROP plan members. As fiduciaries, the FPPA Board Members are required to discharge their duties solely in the interest of fund participants and beneficiaries. The FPPA Board has established investment policies and allocates assets, or selects investment options, based upon member characteristics, plan provisions, and the financial requirements of the Funds, in addition to considering the risk/reward trade-offs of various investments.

The Association has established long range statements of investment objectives and policies for managing and monitoring the Funds. The investment policies establish investment objectives and define the responsibilities of the fiduciaries with respect to the Funds, their investment authority under Colorado law, the level of acceptable risk for investments, investment allocation targets, investment performance objectives, and guidelines within which outside investment managers must operate.

The assets in the Fire & Police Members' Benefit Investment Fund are managed primarily by professional investment management firms. Similarly, investment options offered to defined contribution and deferred compensation plan members are typically pooled investment vehicles managed by professional money managers.

The Association's investment staff coordinates and monitors the investments and fund options, and assists the board of directors in the formulation and implementation of investment policies and long-term investment strategies. The investment staff is also responsible for the contents of this section of the annual report. To the extent applicable, investment managers are required to report results in conformance with standards developed by the CFA Institute (CFAI). FPPA utilizes its custodian bank to independently calculate investment performance.

## Summary of Investment Objectives

The FPPA Board, in developing long-term investment objectives, investment class allocations and investment guidelines, recognizes that the Fund includes the assets of several different benefit plans, all having a different funded status. The overall objective of the Fund is to balance and prudently manage the investment needs of all plans participating in the Fund, including the need to eliminate current unfunded liabilities and/or to protect surpluses, if possible.

At its July 2015 meeting, the board of directors reviewed and approved recommended changes to the actuarial assumptions. The actuarial assumptions reduced the expected inflation from 3.0% to 2.5% and increased the expected real return on assets. Beginning in 2016, over the long-term, the performance objective of the Fund is to achieve a compound real rate of return of on invested assets of 5.0%. The FPPA Board expects the objectives to be fulfilled within the levels of risk that a prudent investor would take under similar conditions.

## Investment Allocation

FPPA utilizes an asset liability study as its primary process to establish the overall risk tolerance for the Fund. In establishing Investment Allocation Policy Targets, the board of directors considers the historical and expected risks and correlations of investment classes in creating a portfolio which reduces risk through investment diversification. The FPPA Board conducts a formal asset liability study and investment allocation review at least every 2 years.

The FPPA Board establishes and continually updates investment allocation targets. At the end of 2017, the following investment allocation targets were in effect: global equity 37.0%; equity long/short 9.0%; fixed income & cash 17.0%; absolute return 9.0%; managed futures 4.0%; and illiquid alternatives 24.0%.

For the Fire & Police Members' Benefit Investment Fund, as of December 31, 2017, the Association employed the external investment managers listed further in this section.

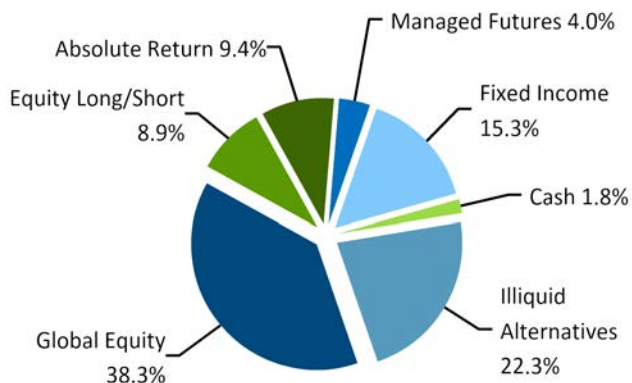
## Basis of Presentation

The assets of the Fire & Police Members' Benefit Investment Fund are presented at fair value based on the asset balances of the investment portfolio. The fair value of assets per the financial statements are reallocated to reflect investment exposures on a trade date basis, to account for cash held within accounts of investment managers, and to reflect derivatives exposures created with cash collateral. The fair value of assets in the investment portfolio does not include assets of the FPPA operational cash or assets held in the securities lending investment pool. Performance calculations were prepared using time-weighted rates of return and are net of fees unless otherwise indicated. Returns for periods longer than one year are annualized.

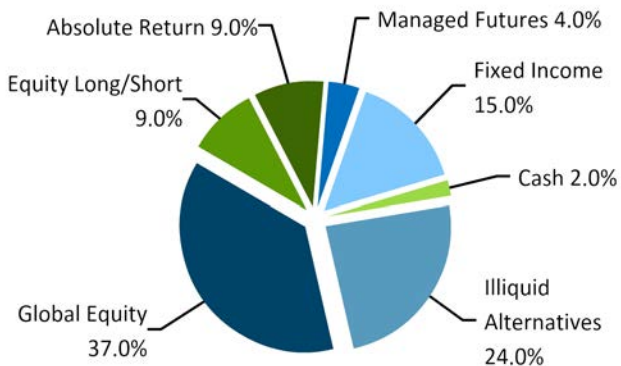


■ Asset Allocation

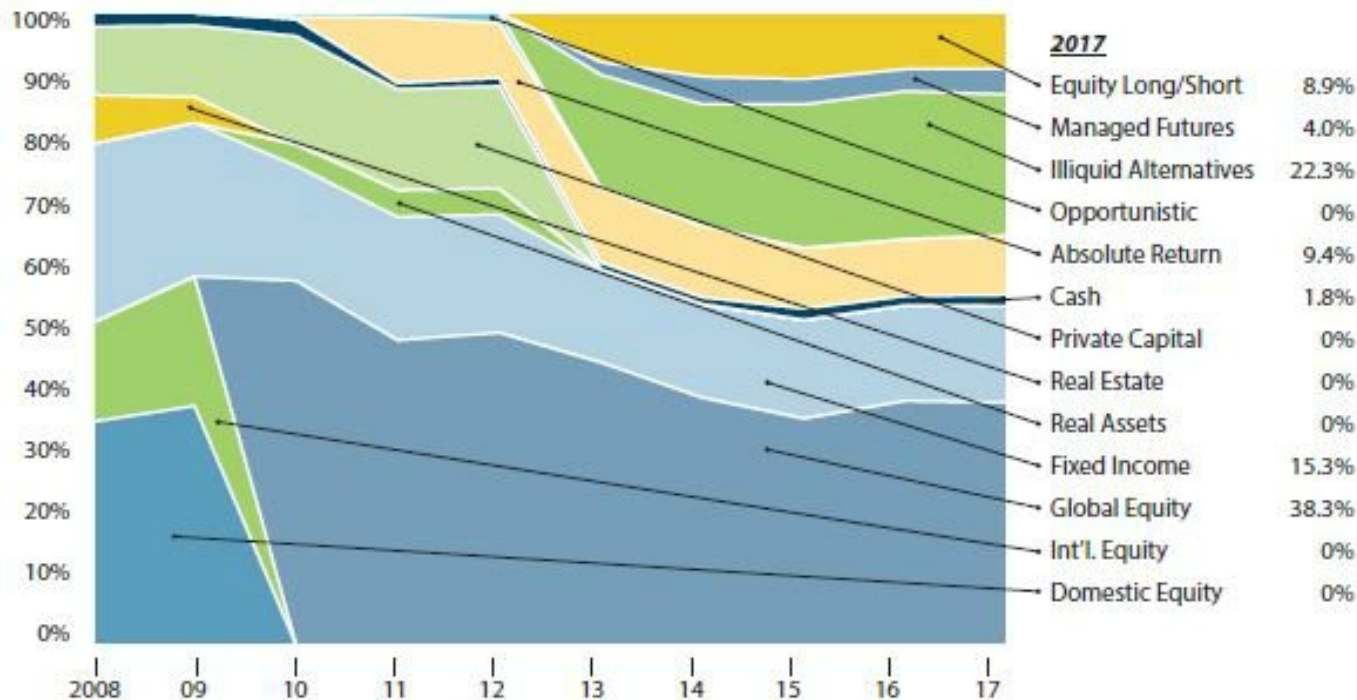
2017 Asset Allocation



2017 Target Asset Allocation



■ FPPA Asset Allocation 2008-2017

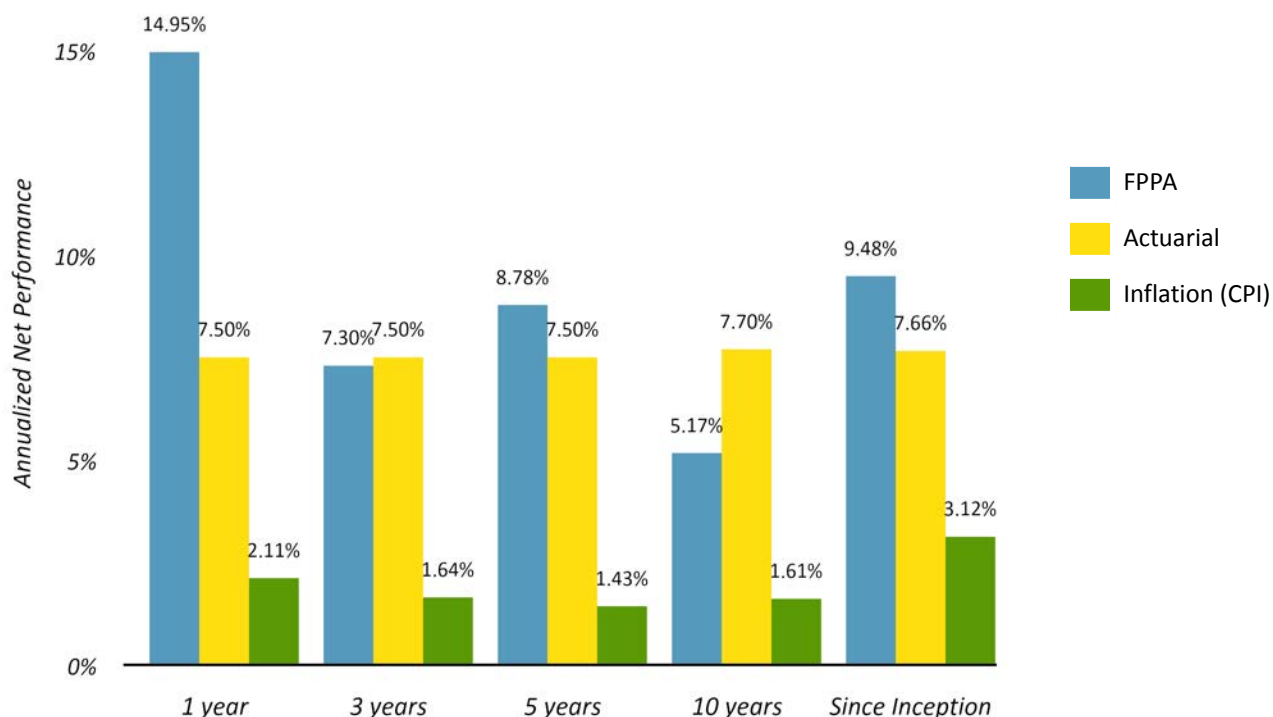


■ Investment Summary as of December 31, 2017

	Fair Value per Financial Statement	Reallocation	Fair Value Per Investment Portfolio	Percent of Fair Value
Global Equity	\$1,650,203,047	\$236,970,361	\$1,887,173,408	38.3%
Equity Long/Short	424,046,552	12,371,704	436,418,256	8.9%
Fixed Income	853,972,158	(102,009,337)	751,962,821	15.3%
Managed Futures	178,326,333	20,000,000	198,326,333	4.0%
Absolute Return	463,635,512	1,582,270	465,217,782	9.4%
Real Assets	292,282,622	0	292,282,622	5.9%
Real Estate	196,599,541	0	196,599,541	4.0%
Private Capital	608,356,389	875,184	609,231,573	12.4%
Investment Cash & Short Term	287,372,773	(199,430,190)	87,942,583	1.8%
	<b>\$4,954,794,927</b>	<b>\$(29,640,008)</b>	<b>\$4,925,154,919</b>	<b>100.00%</b>

\*The total fair value of the Members' Benefit Investment Fund does not include physical assets of the Association, assets in the Association's operational cash account, receivable and payables of the Association, and overlay program exposures have been reallocated back to the investment portfolios that hold them.

■ Net Performance vs. Inflation and Actuarial Requirements (Inception – 2017)



## ■ Asset Allocation by Category and Investment Manager

Asset Class Manager	Investment Style	Management Fees	1 Year Net Return %	Total Assets	% of Total Fund Assets
<b>Global Equity</b>					
Allianz Best Styles	Active World Equity	\$509,395	23.10 %	\$194,787,071	3.95%
Artio Global Investors <sup>1</sup>	Active EAFE	0	9.91 %	5,280	0.00%
Baillie Gifford Overseas	Active Emerging Markets	430,164	53.25 %	87,118,035	1.77%
BNP Paribas FX Overlay <sup>5</sup>	Foreign Currency Overlay	330,727	N/M	13,533,112	0.27%
Driehaus	Global Small Cap	752,829	42.66 %	116,422,730	2.36%
Global Transition Account	MSCI World Index	0	11.53 %	65,140	0.01%
Kayne Anderson Midstream	MLP	354,224	(3.30)%	34,468,671	0.70%
LSV Asset Management <sup>1</sup>	Active EAFE	0	13.85 %	14,536	0.00%
Numeric EM Core	Active Emerging Markets	559,029	43.31 %	110,419,176	2.24%
Russell US Equity Overlay	US Small Cap	115,905	14.77 %	141,385,433	2.87%
SSGA EDHEC	Active World Equity	107,669	22.94 %	161,680,276	3.28%
SSGA EM Enhanced	Active Emerging Markets	96,243	38.12 %	50,029,555	1.02%
SSgA MSCI US	MSCI US	141,362	21.86 %	436,399,803	8.86%
SSgA MSCI World <sup>1</sup>	MSCI World Index	0	N/A	1,226	0.00%
SSgA MSCI World ex. US	MSCI World ex. US	99,201	24.66 %	300,866,663	6.11%
Walter Scott	Active World Equity	1,115,270	27.59 %	201,927,968	4.10%
Winton Global <sup>2</sup>	Active World Equity	101,534	8.32 %	118,818	0.01%
Russell	Fund Overlay	210,424	17.65 %	37,929,915	0.77%
<b>Total Global Equity</b>		<b>\$4,923,976</b>		<b>\$1,887,173,408</b>	<b>38.32%</b>
<b>Equity Long/Short</b>					
AKO	Equity Long/Short	\$824,217	19.31 %	\$49,254,453	1.00%
Anchor Bolt	Equity Long/Short	709,346	8.70 %	48,828,417	0.99%
Hitchwood Capital	Equity Long/Short	590,144	18.92 %	49,619,676	1.01%
Luxor	Equity Long/Short	43,186	34.12 %	6,674,988	0.13%
Palestra Capital <sup>3</sup>	Equity Long/Short	276,832	N/A	49,968,510	1.01%
Pershing Square	Equity Long/Short	192,921	(2.27)%	9,267,253	0.19%
Rivulet Capital	Equity Long/Short	650,511	14.10 %	51,684,139	1.05%
Sachem Head	Equity Long/Short	594,928	12.72 %	43,772,754	0.89%
Senator Global Opportunity	Equity Long/Short	770,285	13.27 %	26,012,115	0.53%
South Point	Equity Long/Short	803,152	14.61 %	54,216,907	1.10%
Tessera QP Small Cap	Equity Long/Short	673,329	9.27 %	47,119,044	0.96%
<b>Total Equity Long/Short</b>		<b>\$6,128,851</b>		<b>\$436,418,256</b>	<b>8.86%</b>

**Investment Section ■ Fire & Police Members' Benefit Investment Fund**
**■ Asset Allocation by Category and Investment Manager**

Asset Class Manager	Investment Style	Management Fees	1 Year Net Return %	Total Assets	% of Total Fund Assets
<b>Fixed Income</b>					
Fixed Income Impaired		\$0	N/A	\$529,107	0.01%
Fixed Income Transition <sup>2</sup>		2,838	N/A	0	0.00%
GSAM Strategic Income <sup>2</sup>	Unconstrained Bonds	396,449	11.64 %	579,608	0.01%
Loomis Sayles Core <sup>3</sup>	Core	79,203	N/A	136,181,892	2.77%
Manulife	Unconstrained Bonds	295,139	4.11 %	102,555,804	2.08%
PriVest	Investment Grade Bonds	132,386	5.52 %	45,158,368	0.92%
Prudential ABS Return	Unconstrained Bonds	536,765	6.60 %	134,703,569	2.73%
SSgA BC Agg Index Fund	Core	(29,132)	3.59 %	319,652,762	6.49%
Russell	Fund Overlay	69,911	17.65 %	12,601,711	0.26%
<b>Total Fixed Income</b>		<b>\$1,483,559</b>		<b>\$751,962,821</b>	<b>15.27%</b>
<b>Managed Futures</b>					
AHL Pure Momentum	Hedge Fund	\$517,363	2.72 %	\$48,954,884	0.99%
Blue Trend <sup>2</sup>	Hedge Fund	245,794	N/A	0	0.00%
Graham Tactical Trend	Hedge Fund	232,470	5.64 %	50,010,635	1.02%
KeyQuant Key Trends <sup>3</sup>	Hedge Fund	108,297	N/A	49,822,463	1.01%
Winton Diversified Futures	Hedge Fund	413,371	7.02 %	49,538,351	1.01%
<b>Total Managed Futures</b>		<b>\$1,517,295</b>		<b>\$198,326,333</b>	<b>4.03%</b>
<b>Absolute Return</b>					
Alphadyne Global	Hedge Fund	\$547,071	14.72 %	\$29,456,579	0.60%
AQR Delta II	Hedge Fund	549,896	4.48 %	56,573,872	1.15%
AQR SPF	Hedge Fund	357,658	13.89 %	39,005,789	0.79%
Arrowgrass	Hedge Fund	49,838	(1.46)%	19,834,320	0.40%
Autonomy Global Macro	Hedge Fund	676,813	6.11 %	32,287,332	0.65%
Citadel Kensington <sup>3</sup>	Hedge Fund	0	N/A	43,132,649	0.88%
CommonWealth Opportunity II <sup>2</sup>	Hedge Fund	58,001	N/A	0	0.00%
HBK	Hedge Fund	811,781	5.18 %	55,298,230	1.12%
Hudson Bay <sup>3</sup>	Hedge Fund	75,000	N/A	30,322,072	0.62%
Hutchin Hill	Hedge Fund	862,122	(7.61)%	46,126,827	0.94%
MKP Opportunity	Hedge Fund	560,467	(1.17)%	30,365,265	0.62%
Pharo Macro	Hedge Fund	1,035,948	16.68 %	51,194,723	1.04%
Soroban	Hedge Fund	454,376	11.11 %	31,620,124	0.64%
<b>Total Absolute Return</b>		<b>\$6,038,971</b>		<b>\$465,217,782</b>	<b>9.45%</b>

## ■ Asset Allocation by Category and Investment Manager

Asset Class Manager	Investment Style	Management Fees	1 Year Net Return %	Total Assets	% of Total Fund Assets
<b>Real Assets</b>					
Alpha Petro Holdco <sup>3</sup>	Oil & Gas	\$0	N/A	\$5,000,000	0.10%
Arclight Capital V	Energy Infrastructure	168,427	17.42 %	11,913,120	0.24%
Arroyo Energy II <sup>3</sup>	Energy Infrastructure	265,337	N/A	10,569,868	0.21%
Broadriver II <sup>4</sup>	Life Settlements	192,500	N/M	22,291,831	0.45%
Capital Royalty II	Diversified Private Credit	92,084	1.13 %	7,720,207	0.16%
EIG Real Assets XV	Energy Infrastructure	175,071	12.91 %	12,131,722	0.25%
EIG Real Assets XVI	Energy Infrastructure	220,128	28.96 %	11,010,668	0.22%
Energy Capital Partners II	Energy Infrastructure	58,933	40.43 %	6,486,156	0.13%
Energy Capital Partners III <sup>4</sup>	Energy Infrastructure	161,312	N/M	9,118,764	0.18%
Enervest Fund XII <sup>6</sup>	Oil & Gas	0	N/A	0	0.00%
Enervest Fund XIII-A	Oil & Gas	(19,601)	N/A	0	0.00%
Freestone Series I <sup>4</sup>	Diversified Real Assets	1,031,999	N/M	55,513,743	1.13%
Freestone Series II <sup>4</sup>	Diversified Real Assets	0	N/M	7,322,638	0.15%
Iberia Credit II <sup>4</sup>	Diversified Private Credit	660,021	N/M	14,871,897	0.30%
Petroleum Equity Rho <sup>4</sup>	Oil & Gas	1,261,985	N/M	18,982,895	0.39%
Raven I	Asset Backed Lending	107,723	(6.97)%	5,760,328	0.12%
Raven III <sup>4</sup>	Asset Backed Lending	348,133	N/M	9,960,047	0.20%
Riverrock Euro II <sup>4</sup>	Diversified Private Credit	75,066	N/M	3,793,635	0.08%
Rosemawr III <sup>4</sup>	Diversified Private Credit	42,057	N/M	4,366,280	0.09%
Scout I-B	Oil & Gas	498,167	(15.96)%	8,517,521	0.17%
Scout II-B <sup>4</sup>	Oil & Gas	714,631	N/M	32,498,195	0.66%
Scout III-B <sup>4</sup>	Oil & Gas	484,256	N/M	26,900,812	0.55%
<i>Valuation Adjustment<sup>7</sup></i>				7,552,295	0.15%
<b>Total Real Assets</b>		<b>\$6,538,229</b>		<b>\$292,282,622</b>	<b>5.93%</b>
<b>Real Estate</b>					
Blackrock Diamond <sup>6</sup>	Value Added	\$0	N/A	\$10,237	0.00%
Blackstone RE VI	Opportunistic	43,318	44.95 %	3,192,028	0.07%
Blackstone RE VII	Opportunistic	109,390	13.05 %	12,152,051	0.25%
Blackstone RE VIII <sup>4</sup>	Opportunistic	787,500	N/M	15,766,141	0.32%
H/2 Real Estate	Distressed Debt	137,825	12.12 %	5,939,990	0.12%
JP Morgan	Core	710,846	6.13 %	73,345,589	1.49%
Morgan Stanley	Core	349,670	8.82 %	34,642,155	0.70%
Pauls REO 2012	Real Estate Debt	29,905	(17.14)%	1,634,196	0.03%
Pauls REO 2014 <sup>4</sup>	Real Estate Debt	77,615	N/M	588,757	0.01%
PRISA	Core	362,154	6.47 %	37,399,952	0.76%
RREEF	Core	0	(2.51)%	26,592	0.00%
Velocis II <sup>4</sup>	Value Added	(51,190)	N/M	10,541,716	0.21%
<i>Valuation Adjustment<sup>7</sup></i>				1,360,137	0.03%
<b>Total Real Estate</b>		<b>\$2,557,033</b>		<b>\$196,599,541</b>	<b>3.99%</b>

## ■ Asset Allocation by Category and Investment Manager

Asset Class Manager	Investment Style	Management Fees	1 Year Net Return %	Total Assets	% of Total Fund Assets
<b>Private Capital</b>					
Alchemy Special III <sup>4</sup>		\$63,285	N/M	\$4,438,074	0.09%
American Securities Partners VI		103,304	44.81%	8,386,770	0.17%
Ascribe Opportunity Fund II		192,523	(0.52%)	6,185,740	0.12%
Ascribe Opportunity Fund III <sup>4</sup>		216,220	N/M	4,307,919	0.09%
Bowmark Capital Partners IV		176,336	9.07%	7,586,090	0.15%
Capital Partners Income II		176,694	39.91%	12,278,016	0.25%
Catterton Partners V		11,826	(34.41%)	65,812	0.00%
Catterton Partners VI		72,420	(4.97%)	4,821,952	0.10%
Catterton Partners VII		221,020	21.10%	19,324,072	0.39%
Center Lane III		159,656	(0.81%)	4,274,409	0.09%
Center Lane IV <sup>4</sup>		0	N/M	10,504,451	0.21%
Coller International Partners IV		0	(2.68%)	18,633	0.00%
Commonfund Capital Venture Partners IX		74,883	15.44%	19,404,145	0.39%
Commonfund Capital Venture Partners X		62,293	10.49%	12,100,131	0.25%
CVC European Equity Partners III		0	0.48%	588,173	0.01%
CVC European Equity Partners IV		(10,918)	149.13%	30,813	0.00%
CVC European Equity Partners V		20,748	77.01%	4,127,010	0.08%
Doughty Hanson III		0	97.40%	59,220	0.00%
Dyal Capital II <sup>4</sup>		299,794	N/M	3,474,681	0.07%
Endeavour Capital IV		0	(1.41%)	123,458	0.00%
Endeavour Capital VI		113,285	1.30%	8,857,083	0.18%
Endeavour Capital VII <sup>4</sup>		242,935	N/M	7,820,425	0.16%
Energy & Minerals Group II		162,451	21.18%	17,205,330	0.35%
Energy & Minerals Group III <sup>4</sup>		248,885	N/M	15,685,811	0.32%
Enhanced Equity II		50,000	(45.18%)	483,747	0.01%
GBOF IV		113,964	45.65%	9,184,408	0.19%
Grey Mountain III		198,005	30.98%	8,405,159	0.17%
HIG Bayside Opportunities Fund II		174,863	12.78%	7,386,522	0.15%
HIG Middle Market II <sup>4</sup>		200,000	N/M	4,567,761	0.09%
High Road Capital Partners I		47,675	(29.75%)	6,273,391	0.13%
High Road Capital Partners II		225,973	16.39%	5,852,467	0.12%
Insight Venture Partners VII		112,044	27.00%	11,420,263	0.23%
JH Whitney VII		286,810	16.10%	11,324,015	0.23%
JMI Equity VI		99,454	(11.94%)	506,355	0.01%
JMI Equity VII		203,699	28.20%	11,166,558	0.23%
Kayne Anderson Energy III		0	(22.67%)	90,609	0.00%
Kayne Anderson Energy IV		0	4.24%	837,084	0.02%
Kayne Anderson Energy VI		128,278	4.32%	4,124,897	0.08%
Kelso Investment Assoc VIII		67,676	5.59%	8,062,375	0.16%
KPS Special Situations III		33,990	0.80%	4,467,453	0.09%
Littlejohn Opportunities Fund II <sup>4</sup>		28,259	N/M	4,953,628	0.10%
Mayfair I <sup>4</sup>		46,227	N/M	8,545,092	0.17%
Mercato Growth III <sup>4</sup>		423,541	N/M	6,519,062	0.13%
Mountain View FD II <sup>5</sup>		527	N/A	0	0.00%
MVM III		76,901	23.10%	6,205,868	0.13%
MVM IV <sup>4</sup>		329,000	N/M	12,343,430	0.25%
Nautic Partners VI		11,799	27.01%	2,455,385	0.05%
Nautic Partners VII <sup>4</sup>		23,815	N/M	5,875,322	0.12%

## ■ Asset Allocation by Category and Investment Manager

Asset Class Manager	Investment Style	Management Fees	1 Year Net Return %	Total Assets	% of Total Fund Assets
Nautic Partners VIII <sup>4</sup>		\$268,333	N/M	\$2,334,363	0.05%
New Enterprise Associates XIII		84,019	7.03%	12,071,016	0.25%
NGP Natural Resources X		89,396	3.32%	4,758,693	0.10%
Nordic Capital VII		119,406	32.37%	8,856,144	0.18%
Nordic Capital VIII		123,404	60.77%	7,019,161	0.14%
OHA Strategic Credit Fund II		(45,455)	7.16%	234,680	0.00%
OSP Value I <sup>4</sup>		225,000	N/M	23,477,524	0.48%
OSP Value II <sup>4</sup>		0	N/M	2,000,000	0.04%
Oxford Bioscience Partners IV <sup>5</sup>		1,797	N/A	0	0.00%
Palladium Equity IV <sup>4</sup>		184,273	N/M	9,210,746	0.19%
Raine Partners II <sup>3</sup>		400,000	N/M	11,275,051	0.23%
Roark Capital Partners II		0	14.45%	18,536,585	0.38%
Roark Capital Partners III		74,161	12.70%	10,898,675	0.22%
Roark Capital Partners IV <sup>2</sup>		249,020	N/M	11,545,075	0.23%
Rosemont Partners III		300,000	48.10%	12,657,667	0.26%
SIF IV		120,004	7.45%	16,621,192	0.34%
SIF VII <sup>4</sup>		92,496	N/M	5,886,705	0.12%
Siguler Guff <sup>4</sup>		289,053	N/M	7,207,318	0.15%
SVB Venture Overage <sup>4</sup>		35,429	N/M	9,189,225	0.19%
TA XI		148,136	32.72%	5,229,104	0.11%
TCV VII		47,561	41.51%	8,665,665	0.18%
TCV VIII <sup>4</sup>		300,000	N/M	15,247,349	0.31%
Thomas, Mc Nerney & Partners I		0	76.13%	1,109,463	0.02%
Thomas, Mc Nerney & Partners II		40,300	(7.55%)	2,834,865	0.06%
TPG Growth II		72,696	(2.12%)	11,475,437	0.23%
Transom II <sup>4</sup>		132,544	N/M	15,370,898	0.31%
Ufenau IV <sup>4</sup>		275,161	N/M	7,027,791	0.14%
Ufenau V <sup>4</sup>		322,812	N/M	3,500,742	0.07%
Veritas Capital IV		0	25.06%	11,868,560	0.24%
Veritas Capital V <sup>4</sup>		186,307	N/M	22,374,298	0.45%
Valuation Adjustment <sup>7</sup>				18,028,512	0.37%
<b>Total Private Capital</b>		<b>\$9,625,993</b>		<b>\$609,231,573</b>	<b>12.37%</b>
Cash account & Short Term BNY/Mellon Bank			1.17%	\$87,942,583	1.78%
Annual Accrual Adjustment		73,338			
<b>TOTAL FEES &amp; ASSETS</b>		<b>\$38,887,245</b>	<b>14.95%</b>	<b>\$4,925,154,919</b>	<b>100.00%</b>

\*The total fair value of the Members' Benefit Investment Fund does not include physical assets of the Association, assets in the Association's operational cash account, receivable and payables of the Association, and assets held in the securities lending investment pool.

<sup>1</sup> Manager terminated in 2010

<sup>2</sup> Manager terminated in 2017

<sup>3</sup> Manager hired in 2017, no one year return.

<sup>4</sup> N/M = Not Meaningful. FPPA does not report returns for illiquid partnerships investments with less than 36 months of history.

<sup>5</sup> N/M = Not Meaningful.

<sup>6</sup> Manager in liquidation.

<sup>7</sup> See Note 2.C. Summary of Significant Accounting Policies, within the Financial Statements

## ■ Top 20 Equity Holdings

Company	Fair Value
APPLE INC	\$20,770,444
MICROSOFT CORP	19,973,419
JOHNSON & JOHNSON	13,749,147
ALPHABET INC-CL C	11,407,853
AMAZON.COM INC	10,548,619
CISCO SYSTEMS INC	9,981,899
JPMORGAN CHASE & CO	9,896,548
MASTERCARD INC	9,575,034
FACEBOOK INC	9,466,020
AIA GROUP LTD	8,450,345
ADOBE SYSTEMS INC	8,341,249
NESTLE SA	8,241,380
BANK OF AMERICA CORP	7,700,941
WALT DISNEY CO/THE	7,557,415
ROCHE HOLDING AG	7,522,993
EXXON MOBIL CORP	7,504,683
NOVARTIS AG	7,281,725
NOVO NORDISK A/S	6,871,104
ALPHABET INC-CL A	6,855,527
AMPHENOL CORP	6,614,501

*The top 20 holdings exclude commingled funds. A complete list of holdings is available upon request.*



## ■ Top 20 Fixed Income Holdings

Company	Description		Fair Value
U S TREASURY NOTE	VAR RT	01/31/2019	\$14,523,200
U S TREASURY NOTE	VAR RT	04/30/2018	9,507,030
U S TREASURY NOTE	0.75%	04/15/2018	8,944,589
U S TREASURY NOTE	1.00%	03/15/2019	8,315,664
U S TREASURY NOTE	VAR RT	10/31/2018	8,212,546
U S TREASURY NOTE	VAR RT	01/31/2018	8,001,920
U S TREASURY NOTE	0.88%	01/15/2018	6,599,208
FNMA SF MTG	3.50%	01/01/2048	5,190,070
U S TREASURY NOTE	1.50%	10/31/2019	4,204,912
FNMA SF MTG	4.00%	01/01/2048	3,848,323
U S TREASURY NOTE	1.88%	04/30/2022	3,410,749
GNMA II JUMBOS	3.00%	01/20/2048	3,047,361
FHLMC GOLD SFM	3.50%	01/01/2048	2,808,654
U S TREASURY NOTE	1.88%	09/30/2022	2,694,384
U S TREASURY NOTE	2.00%	10/31/2022	2,450,469
U S TREASURY NOTE	1.38%	07/31/2019	2,367,017
U S TREASURY BOND	2.88%	11/15/2046	2,359,386
FNMA SF MTG	3.00%	01/01/2048	2,250,000
U S TREASURY BOND	4.75%	02/15/2037	2,231,485
U S TREASURY NOTE	2.00%	11/30/2022	2,093,772

The top 20 holdings exclude commingled funds, SWAPS & SWAP collateral. A complete list of holdings is available upon request.

## ■ Performance Summary as of December 31, 2017

Series Name Benchmark Indices	4Q Return Percentage	1 Year Return Percentage	Annualized 3 Year Return Percentage	Annualized 5 Year Return Percentage
FPPA Total Fund - Gross of Fees	4.75%	15.96%	8.17%	9.61%
FPPA Total Fund - Net of Fees	4.45%	14.95%	7.30%	8.78%
<i>Custom Total Fund Benchmark<sup>1</sup></i>	4.37%	16.81%	7.80%	9.00%
<i>Public Fund Median (BNY/Mellon)</i>	3.73%	15.78%	7.77%	9.01%
Global Public Equity Accounts - Gross of Fees	5.57%	25.43%	10.52%	12.11%
Global Public Equity Accounts - Net of Fees	5.48%	25.00%	10.22%	11.84%
<i>MSCI ACWI IMI w/USA Gross</i>	5.83%	24.58%	10.10%	11.58%
Equity Long/Short - Gross of Fees	3.09%	15.52%	5.93%	8.75%
Equity Long/Short - Net of Fees	2.33%	13.79%	4.32%	7.12%
<i>HFRI Equity Hedge</i>	3.36%	13.29%	5.77%	6.60%
Fixed Income Accounts - Gross of Fees	0.63%	4.05%	2.68%	2.06%
Fixed Income Accounts - Net of Fees	0.57%	3.82%	2.44%	1.82%
<i>Barclays Capital U.S. Aggregate Index</i>	0.39%	3.54%	2.24%	2.10%
Managed Futures - Gross of Fees	8.33%	4.16%	(0.21%)	N/A
Managed Futures - Net of Fees	7.88%	3.23%	(1.15%)	N/A
<i>Barclays Hedge BTOP 50 Index</i>	3.67%	(0.82%)	(2.08%)	N/A
Absolute Return - Gross of Fees	1.46%	7.58%	5.45%	6.31%
Absolute Return - Net of Fees	0.80%	6.12%	3.91%	4.72%
<i>90 Day T-Bill + 400bps</i>	1.24%	4.84%	4.38%	4.24%
Total Illiquid Alternative - Gross of Fees <sup>2</sup>	8.13%	15.79%	12.22%	14.86%
Total Illiquid Alternative - Net of Fees <sup>2</sup>	7.65%	13.73%	10.51%	13.29%
Private Capital Accounts - Gross of Fees	8.60%	22.20%	16.39%	18.00%
Private Capital Accounts - Net of Fees	8.12%	20.18%	14.71%	16.47%
Real Asset Accounts - Gross of Fees	10.05%	5.32%	0.40%	6.41%
Real Asset Accounts - Net of Fees	9.47%	2.57%	(1.77%)	4.33%
Real Estate Accounts - Gross of Fees	4.15%	10.43%	10.91%	13.29%
Real Estate Accounts - Net of Fees	3.83%	9.19%	9.61%	12.10%
<i>MSCI ACWI IMI w/US Gross + 200bps Lagged</i>	5.79%	21.10%	10.07%	12.78%
<b>Comparative Benchmarks</b>				
<i>ILPA All Funds</i>	3.94%	15.49%	10.20%	12.43%
<i>NCREIF NFI-ODCE Index</i>	1.85%	6.66%	9.42%	10.52%
<i>Actuarial Rate</i>	1.83%	7.50%	7.50%	7.50%

Returns were calculated using time-weighted rates of return adjusted for significant cash flows (5% of the portfolio or greater) or the Modified-Dietz method.

<sup>1</sup> Composite of the index benchmark returns of each asset class multiplied by their target asset allocations.

<sup>2</sup> The majority of Illiquid Alternative accounts are reported on a quarter lag.

## ■ Summary of Brokerage Commissions

Broker Name	Total Commission	Shares Traded	Per Share
STATE STREET BK & TR CO, LONDON	\$39,515	7,857,075	0.005
MORGAN STANLEY & CO INC, NY	59,453	7,482,451	0.008
DEUTSCHE BK INTL EQ, LONDN	2,987	3,360,824	0.001
CREDIT SUISSE, NEW YORK	16,364	3,357,695	0.005
CREDIT SUISSE, LONDON	9,918	3,074,468	0.003
GOLDMAN SACHS INTL, LONDON	4,705	2,545,803	0.002
UBS WARBURG ASIA LTD, HONG KONG	6,101	2,107,614	0.003
ROYAL BANK OF CANADA EUROPE LTD, LONDON	7,342	1,985,654	0.004
BARCLAYS CAPITAL, LONDON	10,457	1,893,109	0.006
UBS WARBURG, LONDON	6,346	1,705,586	0.004
DEUTSCHE BK SECS INC, NY	3,953	1,675,496	0.002
DAIWA SECS LTD, HONG KONG	4,190	1,612,433	0.003
STATE STREET GLOBAL MARKETS LLC, BOSTON	14,323	1,597,269	0.009
INSTINET EUROPE LIMITED, LONDON	10,712	1,406,483	0.008
JEFFERIES & CO INC, NEW YORK	11,401	1,342,593	0.008
INVESTMENT TECHNOLOGY GROUP LTD,DUBLIN	8,054	1,338,607	0.006
GOLDMAN SACHS & CO, NY	8,451	1,304,007	0.006
MERRILL LYNCH INTL LONDON EQUITIES	5,207	1,026,170	0.005
CITIGROUP GLOBAL MARKETS LTD, LONDON	6,034	995,467	0.006
SOCIETE GENERALE LONDON BRANCH, LONDON	6,473	944,428	0.007
UBS SECURITIES LLC, STAMFORD	5,797	869,677	0.007
CREDIT LYONNAIS SECS, HONG KONG	769	738,751	0.001
RBC DOMINION SECS INC, TORONTO	10,969	727,934	0.015
NOMURA SECS INTL INC, NEW YORK	240	720,883	0.000
JP MORGAN SECS LTD, TAIWAN	1,365	702,216	0.002
NUMIS SECURITIES INC., NEW YORK	5,061	647,744	0.008
J P MORGAN SECS LTD, LONDON	6,543	633,056	0.010
BERENBERG GOSSLER & CIE, HAMBURG	12,443	630,031	0.020
BRDESCO S.A. CTVM, SAO PAULO	1,904	598,700	0.003
SVENSKA HANDELSBANKEN, STOCKHOLM	9,200	549,768	0.017
CITIGROUP GBL MKTS/SALOMON, NEW YORK	3,538	532,264	0.007
BNP PARIBAS SECURITIES SVCS, HONG KONG	422	500,263	0.001
SCOTIA CAPITAL MKTS, TORONTO	5,662	481,604	0.012
CITIGROUP GBL MKTS AUSTRALIA PTY, SYDNEY	517	437,214	0.001
KNIGHT CAPITAL EUROPE LTD, LONDON	1,899	417,540	0.005
J.P. MORGAN SECURITIES, HONG KONG	476	395,139	0.001
INSTINET PACIFIC LTD, HONG KONG	321	381,067	0.001
DAIWA SECS AMER INC, NEW YORK	10,853	358,243	0.030
STATE ST BK & TR CO/SAFEKEEPING, N QUINC	1,059	358,119	0.003
MACQUARIE CAPITAL LTD, LONDON	670	339,780	0.002
MACQUARIE BANK LTD, HONG KONG	1,287	334,969	0.004
CITIGROUP GBL MKTS CCTVM SA, BRAZIL	2,328	287,562	0.008

## ■ Summary of Brokerage Commissions

Broker Name	Total Commission	Shares Traded	Per Share
UNION BANK SWITZERLAND SECS, LONDON	\$2,038	271,718	0.008
CITIGROUP GBL MKTS INC, NEW YORK	1,693	264,331	0.006
PEEL HUNT LLP, LONDON	2,243	263,067	0.009
BANCO SANTANDER, NEW YORK	1,476	244,420	0.006
INSTINET AUSTRALIA CLEARING SERV, SYDNEY	797	243,011	0.003
PAREL, PARIS	10,918	240,311	0.045
MACQUARIE SECURITIES LTD, AUCKLAND	446	223,218	0.002
BANCO BTG PACTUAL SA, RIO DE JANEIRO	2,638	218,529	0.012
All Other Brokers	172,159	6,035,977	0.029
<b>Total</b>	<b>\$519,717</b>	<b>68,260,338</b>	<b>0.008</b>

## General Information

### Summary of the Fund's Objectives

Members of the Self-Directed Investment Fund direct their contributions to one or more of the investment options selected by the Self-Directed Plans Committee pursuant to the fund structure approved by the board of directors or investment options available through a Self-Directed Brokerage Account administered by FPPA's record keeper. It is the Self-Directed Plans Committee's intent to select well-managed funds, across diversified asset classes, as investment options for members participating in the plans. In doing so, the FPPA Board acts pursuant to the requirements of Colorado law governing its selection of investment options for such members, and pursuant to the Fund's master statement of investment policies and objectives, while at the same time seeking to delegate its fiduciary liability to the extent prudent.

In order to provide members with the opportunity to select risk/reward strategies to meet their savings and investment goals, the Self-Directed Plans Committee provides fund options with distinctly different risk/reward trade-offs. To this end, the board's policy is to have a study of investment options performed approximately every two years. The purpose of this study is to provide updated information regarding the risk/reward profiles of current fund options, as well as alternative fund options across various asset classes. This information will be utilized by the Self-Directed Plans Committee in determining appropriate fund options.

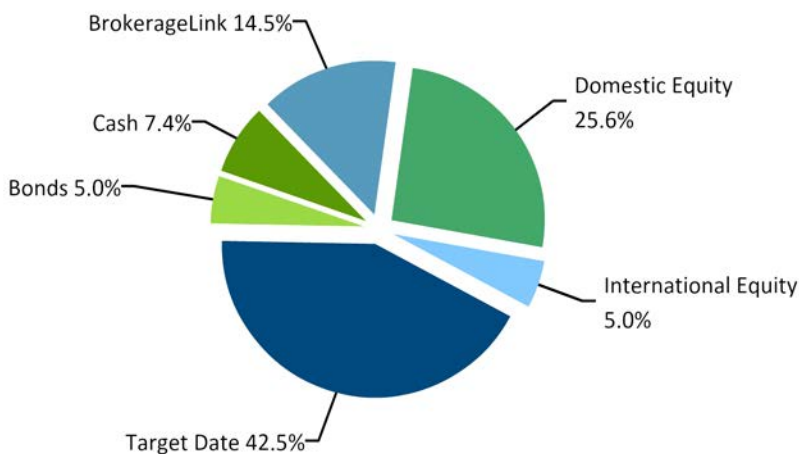
Members make their own decisions when directing the investment of their contributions and accumulated account balances among the investment options offered. Members assume the risk of investment results derived from both the options offered and the strategies they select. It is the member's responsibility to allocate and reallocate assets among investment options as personal circumstances change. The options offered allow the members to address the risks and needs members face.

### Fund Options for Members

As with any investment strategy, diversification is a component of effective risk management. FPPA's Board of Directors has selected a variety of funds across various asset classes from which members can select investment options. Within the funds, one or more pooled investment vehicles are offered in the following asset classes: Stable Value, Money Market, Domestic Bond, Domestic Equity, International Equity and Target Date Retirement Funds. FPPA utilizes Fidelity Investments® to provide recordkeeping and investment management services for FPPA's self-directed plans.

## ■ December 31, 2017 Asset Allocation

### 2017 Asset Allocation



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April 2, 2018

Board of Directors  
 Fire & Police Pension Association  
 5290 DTC Parkway, Suite 100  
 Greenwood Village, CO 80111

**Re: Actuarial Certification of Defined Benefit Plans**

Dear Members of the Board:

This letter concerns the actuarial valuations (both funding and accounting) of the FPPA Defined Benefit System - Statewide Defined Benefit Plan, the Defined Benefit System - Statewide Hybrid Plan Defined Benefit Component, the Statewide Death & Disability Plan, the Colorado Springs New Hire Plans, and affiliated local old hire and volunteer fire plans.

For each plan, a contribution rate was determined which provides for funding as shown in the following table:

Plan	Funding Objective
Defined Benefit System - Statewide Defined Benefit Plan	Current cost plus level percent of payroll amortization of unfunded liability over 30 years
Defined Benefit System - Statewide Hybrid Plan Defined Benefit Component	Current cost plus level percent of payroll amortization of unfunded liability over 30 years
Statewide Death & Disability Plan	Current cost funded as level percent of payroll of contributing members
Defined Benefit System – Colorado Springs New Hire Pension Plans	Current cost plus level dollar amortization of unfunded liability over 22 years
Affiliated Local Old Hire Plans	Current cost plus level dollar amortization of unfunded liability over 17 years
Affiliated Volunteer Fire Plans	Current cost plus level dollar amortization of unfunded liability over 19 years

Most affiliated plans are valued every two years, while the Defined Benefit System and Statewide Death & Disability Plans, and certain state assisted local old hire plans are valued every year. The funding objective for each plan is currently being realized, with the exception of certain affiliated local old hire plans.

The Statewide Death & Disability Plan (“D&D”) contribution rate was increased to 2.6% effective January 1, 2007, the maximum rate currently permitted by statute. The D&D contribution rate may only be



Board of Directors, Fire and Police Pension Association  
April 2, 2018  
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changed every two years by statute. Based on the January 1, 2016 actuarial valuation, the Board elected to increase the contribution rate to 2.7% for the two-year period beginning January 1, 2017.

The Defined Benefit System and Statewide Death & Disability Plans, and affiliated local old hire plans were last valued as of January 1, 2017. The affiliated old hire plans were last valued as of January 1, 2017.

The total pension liability for GASB 67 purposes was rolled-forward from the valuation date to the plan's fiscal year ending December 31, 2017 using generally accepted actuarial principles. During 2017, ad hoc benefit adjustments were granted to retirees of the Statewide Defined Benefit Plan and Statewide Hybrid Plan Defined Benefit Component. The Schedule of Changes in the Employer's Net Pension Liability reflects these changes. There were no other significant events or material changes in benefit provisions that required an adjustment to the roll-forward liabilities.

The total OPEB liability for GASB 74 purposes was rolled-forward from the valuation date to the Statewide Death and Disability Plan's fiscal year ending December 31, 2017 using generally accepted actuarial principles.

A single discount rate was used to measure the total pension liability and the total OPEB liability for the fiscal years ending December 31, 2016 and December 31, 2017. This single discount rate was based on the expected rate of return on pension plan investments of 7.50% and municipal bond rates of 3.78% and 3.31% (based on the Fidelity "20-Year Municipal GO AA Index" as of the end of December) for fiscal years ending 2016 and 2017, respectively. The resulting discount rates were 7.50%. Based on the stated assumptions and the projection of cash flows as of each fiscal year ending, the pension plan's fiduciary net position and future contributions were sufficient to finance all the future benefit payments of the current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of the projected benefit payments to determine the total pension liability for each system.

The valuations were performed based on data provided by FPPA's administrative staff, with an examination of the data for reasonableness. The actuarial methods and assumptions used are in full compliance with all the parameters established by GASB Statements Nos. 67, 68, 74 and 75 and meet the parameters set for the disclosures presented in the financial section by GASB Statement Nos. 67 and 74. The assumptions and methods used for funding purposes meet the parameters set by applicable Actuarial Standards of Practice. GRS provided the following schedules for the December 31, 2017 Comprehensive Annual Financial Report (CAFR):

#### Financial Section

- Net Pension Liability
- Required Discount Rate Sensitivity Information for the Defined Benefit System providing the Net Pension Liability at a discount rate that is one percentage point lower and one percentage point higher than the discount rate
- Required Supplementary Information – Schedule of Changes in the Employer's Net Pension Liability



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April 2, 2018  
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- Required Supplementary Information – Schedule of Employers' Contributions

The following were provided for the Statewide Death and Disability Plan:

- Net OPEB Liability
- Required Discount Rate Sensitivity Information of the Net OPEB Liability at a discount rate that is one percentage point lower and one percentage point higher than the discount rate
- Required Supplementary Information – Schedule of Changes in the Net OPEB Liability

Actuarial Section

- Schedule of Active Member Valuation Data
- Gain/(Loss) on Actuarial Value of Assets
- Schedule of Retirees and Beneficiaries Added To and Removed From Benefit Payroll
- Schedule of Funding Progress
- Solvency Test
- Summary of Actuarial Information for Affiliated Local Plans

Statistical Section

- Schedule of Average Benefit Payments for New Benefit Recipients

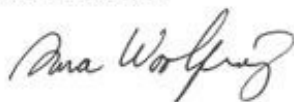
We have reviewed these schedules for their accuracy. To the best of our knowledge, the supporting schedules fully and fairly disclose the actuarial conditions of the plans.

The undersigned are independent actuaries. Both are Members of the Society of Actuaries and meet the Qualifications Standards of the American Academy of Actuaries, and they are experienced in performing valuations for large public retirement systems.

Sincerely,  
Gabriel, Roeder, Smith & Company



Joseph P. Newton, F.S.A., E.A.  
Senior Consultant



Dana Woolfrey, F.S.A., E.A.  
Consultant



## General Information

The Fire & Police Members' Benefit Investment Fund of the Fire & Police Pension Association includes the assets of the Defined Benefit System, Affiliated Local "Old Hire" police and fire plans, Affiliated Local Volunteer Firefighter pension plans, and the Statewide Death & Disability Plan. The Defined Benefit System comprises the Statewide Defined Benefit Plan, the Statewide Hybrid Plan, and the Colorado Springs New Hire Pension Plan. An independent actuarial firm is hired by the Association to perform annual valuations on the three statewide plans and the Colorado Springs New Hire Pension Plan, and to perform biennial valuations on the local "Old Hire" and volunteer plans. In 2017 and 2016 the independent actuarial valuations were performed by Gabriel, Roeder, Smith & Company.

All of the Affiliated Local "Old Hire" police and fire pension plans have a valuation performed as of January 1 of the even numbered years (2016, 2018, etc.). All of the Affiliated Local Volunteer Firefighter pension plans have valuations performed as of January 1 of the odd numbered years (2017, 2019, etc.).

Each of the locally administered plans has a different benefit and member structure. All of the affiliated plans use the actuarial assumptions which have been established by the Fire & Police Pension Association's Board of Directors.

The following data covers detailed information on the Defined Benefit System, Statewide Death & Disability Plan and the Affiliated Local plans.

## Summary of Actuarial Assumptions

The Defined Benefit System is a multi-tiered system that is comprised of the Statewide Defined Benefit Plan, the Statewide Hybrid Plan, and the Colorado Springs New Hire Pension Plan. The Defined Benefit System - Statewide Defined Benefit Plan and the Defined Benefit System - Statewide Hybrid Plan are cost-sharing multiple-employer public employee retirement systems (PERS).

The Defined Benefit System – Statewide Defined Benefit Plan was created by state statute to cover all members hired on and after April 8, 1978 for retirement benefits. This plan was created as the successor to local "Old Hire" plans, most of which had significant unfunded liabilities. The local "Old Hire" plans are closed to new entrants. As of December 31, 2017, 227 employer fire and police departments throughout the state were participating in the Defined Benefit System – Statewide Defined Benefit Plan.

The Defined Benefit System – Statewide Hybrid Plan was created by state statute on January 1, 2004 as an option for local Money Purchase plans and participants in the Fire & Police Members' Statewide Money Purchase plan. It allows participants in these plans to migrate to a defined benefit plan administered by the Fire & Police Pension Association. The plan is comprised of two components, the Defined Benefit Component and the Money Purchase Component. As of December 31, 2017, 40 employer fire and police departments throughout the state were participating.

Two plans joined the Defined Benefit System as of October 1, 2006. They are defined benefit plans for fire and police employees hired on and after April 8, 1978 but prior to October 1, 2006 for the City of Colorado Springs. Upon joining the Defined Benefit System, these two plans merged into one plan document but with a police and fire component. The plan is closed to new members as of October 1, 2006.

The Statewide Death & Disability Plan is a defined benefit cost-sharing multiple-employer death and disability plan, previously funded almost exclusively by contributions from the state. This plan was created by state statute, and is designed to provide both on- and off-duty coverage for death and disability for all members in the state who have not yet completed the age and service requirements for a normal retirement. As of December 31, 2017, 269 employer fire and police departments were participating.

The Affiliated Local Plans include defined benefit retirement plans for fire and police employees in the State of Colorado hired before April 8, 1978 (Old Hires), provided that such plans have affiliated with the Fire & Police Pension Association, and the affiliated volunteer firefighter pension plans in the State of Colorado. There are 221 Affiliated Local Plans as of December 31, 2017.

The valuations for the Defined Benefit System - Statewide Defined Benefit Plan and the Colorado Springs New Hire Pension Plan are used to determine the normal cost of the plan, and to determine any "excess" contribution amounts which may be allocated to the members' separate retirement accounts (SRAs) for the following year.

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**General Information and Summary of Actuarial Assumptions**

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The valuation for the Defined Benefit System - Statewide Hybrid Plan – Defined Benefit Component is also used to determine the normal cost of the plan and to determine any “excess” contribution amounts which may be allocated to the Money Purchase Component of the Plan.

The Fire & Police Pension Association supplied the data for the retired, active and inactive members to the actuary. The data was examined for general reasonableness and consistency with prior years’ information by the independent actuarial firm but was not audited.

The actuarial valuation computations were made by or under the supervision of a Member of the American Academy of Actuaries (MAAA) and an Enrolled Actuary (EA).

The actuarial assumptions have been selected by the Fire & Police Pension Association’s Board of Directors based upon the actuary’s analysis and recommendations from the 2015 Experience Study. The assumptions and methods are detailed within the Actuarial Section of this report. The FPPA Board has sole authority to determine the actuarial assumptions used for the plans. The assumptions that are based upon the actuary’s recommendations are internally consistent and are reasonably based on the actual past experience of the plans. These assumptions are also in full compliance with all of the parameters established by Government Accounting Standards Board (GASB) Statements No. 67, No. 68, and No. 74. The following economic and non-economic assumptions were adopted by the Fire & Police Pension Association’s Board of Directors and were first used during the January 1, 2016 actuarial valuations.

### Actuarial Experience Study

At least every five years the Fire & Police Pension Association’s Board of Directors, in accordance with best practices, reviews its economic and demographic actuarial assumptions.

At its July 2015 meeting, the board of directors reviewed and approved recommended changes to the actuarial assumptions. The assumption changes were effective for actuarial valuations beginning January 1, 2016. The actuarial assumptions impacted actuarial factors for benefit purposes such as purchases of service credit and other benefits where actuarial factors are used. The date the new actuarial assumptions were effective for benefit purposes was October 1, 2016.

The main actuarial factor changes effective January 1, 2016 were:

- Reduce the inflation assumption from 3.0% to 2.5%. It was determined that the 3.0% assumption is higher than the long term historical average, the recent historical average, and most sources of future expectations. The decision to lower the assumption to 2.5% places the assumption closer to recent inflation levels and closer to the levels expected in the bond market. The real return on investments was increased to 5.0% for an overall nominal investment return of 7.50%. The productivity component of the salary increases was increased from 1.0% to 1.5%. The aggregate effect of these changes (inflation, real return, and the productivity component of the salary increase) on the actuarial results was minimal.
- Add an explicit charge for administrative expenses in the actuarial contribution calculation. Although the nominal investment return was not changed from 7.50%, adding an explicit administrative expense effectively reduces the return that must be earned by the plans in order to meet the actuarial assumption since the investment return is no longer net of administrative expenses. This does not alter the accrued liability, but it does increase the actuarially calculated contribution.
- Revise the base mortality tables and the explicit assumption for increasing longevity in the future to reflect current mortality studies. This had the effect of increasing longevity expectations, and in turn, increasing expected costs and liabilities.
- Increase the expected incidence of Total Disability for members of FPPA’s defined benefit plans. Disability incidence is an important assumption for FPPA plans because a disability occurrence shifts all liability from the Defined Benefit System plans (Statewide Defined Benefit Plan, Statewide Hybrid - Defined Benefit Component Plan, Colorado Springs New Hire Plan) to the Statewide Death & Disability Plan. Increasing the expected incidence of Total Disability creates a large increase in projected benefits from the Statewide Death & Disability Plan and reduces projected benefits from the Defined Benefit System retirement plans.

The actuarial assumptions implemented January 1, 2016 are a more conservative position for the Fire & Police Pension Association as it proceeds forward. As always, the assumptions will be reviewed against actual experience each year and gains or losses recognized in accordance with Governmental Accounting Standards Board standards and our actuarial methods and policies.

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**General Information and Summary of Actuarial Assumptions**

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**Economic Assumptions**

Effective January 1, 2016 the investment rate of return for purposes of the actuarial valuation is 7.5% per annum, compounded annually and net of operating expenses. Future inflation is assumed to be 2.5% annually and is included in the active members' salary projections. Thus the real investment rate of return, net of inflation, is 5.0% per annum. Even though lowering the inflation assumption actually increases the assumed real rate of return assumption, there have been adjustments to the asset allocation as inflation expectations have continued to decrease in order to increase the real return of the portfolio.

Effective January 1, 2016, active members' salary increases are composed of three pieces, inflation increases, productivity component of 1.5%, and step-rate/promotional component which varies by the service of the member. The inflation assumption is 2.5% annually. For the Statewide Plans, retirees and beneficiaries are not assumed to receive annual cost-of-living increases as described under current state statute.

Under the affiliated plans, paid plan retirees and beneficiaries from limited rank escalation departments are projected to receive annual cost-of-living increases of 3.5% per annum, compounded annually for benefits accrued prior to January 1, 1980, and 3% per annum compounded annually for benefits accrued after January 1, 1980 (maximum permitted by law). Paid plan retirees and beneficiaries from full rank escalation departments are projected to receive annual cost-of-living increases of 3.5% per annum.

Assets are valued at an actuarial value of assets. The actuarial value of assets is based on the fair value of assets with a five-year phase-in of actual investment return in excess of or less than expected investment income. The returns are computed net of administrative and investment expenses.

No new members are projected to be added to the plans.

**Non-economic Assumptions**

Effective January 1, 2016, the post-retirement mortality tables for non-disabled retirees is a blend of the Annuitant and Employee RP-2014 generational mortality tables with blue collar adjustment projected with Scale BB. The occupationally disabled post-retirement mortality assumption uses the same table as used for healthy annuitants, except there is a three year set-forward, meaning a disabled member age 70 will be valued as if they were a 73 year old healthy retiree. The totally disabled post-retirement mortality assumption uses the RP-2014 generational mortality tables for disabled annuitants, except an additional provision to apply a minimum 3% mortality probability to males and 2% mortality probability for females is included to reflect substantial impairment for this population. The pre-retirement off-duty mortality tables are adjusted to 55% of the RP-2014 mortality tables for active employees. The on-duty mortality rate is 0.00020.

The actuarial method used for the valuation of benefits for funding and financial reporting purposes is specified by state statute to be either the Entry Age Normal or Aggregate Cost Method, with experience gains or losses adjusting the unfunded actuarial accrued liability. The surplus in the Defined Benefit System - Statewide Defined Benefit Plan and the Defined Benefit System - Statewide Hybrid Plan are amortized over 30 years from the valuation date. Since the two components of the Colorado Springs New Hire Pension Plan are closed plans, the amortization period for these plans are over 30 years from January 1, 2008. State statute also specifies that the Defined Benefit System - Statewide Defined Benefit Plan must be fully funded on an actuarially sound basis without necessitating an increase in the 8% employer and 8% member contribution or such higher member contribution rate established in an election of the membership. Within the Defined Benefit System - Statewide Defined Benefit Plan employer contribution rates can only be amended by state statute. Member contribution rates can be amended by state statute or by an election of the membership.

**General Information and Summary of Actuarial Assumptions**

**■ Pre-Retirement Assumptions – Annual Rate Per 1,000 Members**

Sample Ages	Disability			Years of Service	Separation		Attained Age in 2016	Death	
	Occupational	Total	Volunteer		Members	Volunteer		Male	Female
25	0.29	0.02	0.16	0	98.5	165.79	25	0.54	0.31
30	1.35	0.17	0.26	5	43.6	123.85	30	0.52	0.33
35	1.82	0.34	0.45	10	17.9	82.97	35	0.57	0.38
40	2.67	0.52	0.97	15	9.9	54.92	40	0.64	0.44
45	3.29	0.72	3.50	20	8.1	0.00	45	0.89	0.60
50	4.89	0.94	6.50	23	5.2	0.00	50	1.39	0.88
55	6.88	1.17	8.10				55	2.17	1.22

For Statewide Death and Disability Plan:

Service Retirement:

- 1) Statewide Defined Benefit System members - Age 55 with 5 years of service, or current age, if greater.
- 2) Money purchase plan members - Earlier of age 65 or age 55 with 25 years of service; or current age, if greater.
- 3) Denver Police local plan members - Age after 25 years of service or current age, if greater.
- 4) Denver Fire local plan members - Age 50 and 25 years of service or current age, if greater.
- 5) All other plan members - Age 52 or current age, if greater.

**■ Pre-Retirement Assumptions – Salary Increase Rates**

Years of Service	Annual Step-Rate/ Promotional Rate	Total Annual Rate of Increase Including 2.5% Inflation Component and 1.5% Productivity Component
1	10.00%	14.00%
2	8.50%	12.50%
3	8.00%	12.00%
4	7.50%	11.50%
5	2.50%	6.50%
6	1.50%	5.50%
7	1.50%	5.50%
8	1.00%	5.00%
9	0.75%	4.75%
10	0.50%	4.50%
11	0.50%	4.50%
12	0.50%	4.50%
13	0.25%	4.25%
14	0.25%	4.25%
15	0.00%	4.00%

## General Information and Summary of Actuarial Assumptions

## ■ Post-Retirement Assumptions

Sample Ages	COLA Increases	Full Rank	Annual Rate per 1,000 Members									
			Limited Rank		Healthy Retiree or Survivor		Occupationally Disabled Retirees		Totally Disabled Retirees		Active Member Death	
			(Pre 1980)	(Post 1980)	(Male)*	(Female)*	(Male)*	(Female)*	(Male)*	(Female)*	(Male)*	(Female)*
20	N/A										0.49	0.30
30	N/A										0.52	0.33
40	N/A										0.64	0.44
45	N/A										0.89	0.60
50	N/A	3.5%	3.5%	3.0%	2.17	1.23	2.94	1.59	30.00	20.00	1.39	0.88
55	N/A	3.5%	3.5%	3.0%	3.68	1.97	5.56	3.33	30.00	20.00	2.17	1.22
60	N/A	3.5%	3.5%	3.0%	7.24	4.62	10.18	6.89	30.00	20.00		
65	N/A	3.5%	3.5%	3.0%	12.31	8.52	15.95	11.24	30.93	20.36		
70	N/A	3.5%	3.5%	3.0%	19.10	13.63	25.23	18.36	39.14	27.53		

\*Age attained in 2016.

## Defined Benefit System | Statewide Defined Benefit Plan

## ■ Schedule of Active Member Valuation Data

Valuation Date	Number	Average Age	Average Service	Covered Payroll	Annual Average Pay	% Increase in Average Pay
1/1/2017	6,900	40.7	10.5	\$513,837,288	\$74,469	3.86%
1/1/2016	6,602	40.7	10.5	473,359,565	71,699	1.46%
1/1/2015	6,245	40.8	10.7	441,313,862	70,667	1.19%
1/1/2014	6,110	40.7	10.6	426,690,241	69,835	(0.18%)
1/1/2013	5,807	41.0	10.8	406,258,662	69,960	3.94%
1/1/2012	5,717	40.8	10.5	384,803,645	67,309	1.19%
1/1/2011	5,314	40.7	10.5	353,484,986	66,520	1.83%
1/1/2010	5,331	40.1	9.9	384,253,545	65,326	5.12%
1/1/2009	5,197	39.6	9.5	322,971,268	62,146	3.91%
1/1/2008	4,988	39.3	9.2	298,313,990	59,806	2.00%

## ■ Gain (Loss) on Actuarial Value of Assets

	Valuation as of January 1, 2017	Valuation as of January 1, 2016
Actuarial assets, prior valuation	\$1,890,604,068	\$1,714,971,185
Total Contributions since prior valuation	100,378,690	110,242,127
Benefits and refunds since prior valuation	(65,186,443)	(54,839,864)
Assumed net investment income at actuarial rate%*		
Beginning assets	141,795,305	128,622,839
Contributions	3,764,201	4,134,080
Benefits and refunds paid	(2,444,492)	(2,056,495)
Total	\$143,115,014	\$130,700,424
Expected actuarial assets	\$2,068,911,329	\$1,901,073,872
Actual actuarial assets, this valuation	\$2,050,113,711	\$1,890,604,068
Asset gain/(loss)	\$(18,797,618)	\$(10,469,804)
	Loss	Loss

\*7.5% as of 1/1/2012



## Defined Benefit System | Statewide Defined Benefit Plan

## ■ Schedule of Retirees and Beneficiaries Added To and Removed From Benefit Payroll\*

Year Ended	Added to Payroll**		Removed from Payroll		Payroll		% Increase in Annual Benefit	Average Annual Benefit
	Number	Annual Benefit	Number	Annual Benefit	Number	Annual Benefit		
12/31/2016	131	\$6,612,256	5	\$138,121	1,301	\$54,808,412	13.39%	\$42,128
12/31/2015	131	6,463,995	5	120,311	1,175	48,334,277	15.11%	41,136
12/31/2014	146	6,358,310	5	121,694	1,049	41,990,593	17.44%	40,029
12/31/2013	155	7,528,613	2	81,763	908	35,753,977	26.31%	39,377
12/31/2012	115	5,199,290	1	43,620	755	28,307,127	22.27%	37,493
12/31/2011	130	5,959,060	2	68,483	641	23,151,457	34.05%	36,118
12/31/2010	94	3,862,662	5	131,169	513	17,270,880	27.56%	33,666
12/31/2009	75	2,981,664	4	43,765	424	13,539,387	27.71%	31,933
12/31/2008	65	2,375,478	3	75,874	353	10,601,488	27.70%	30,033
12/31/2007	66	2,201,387	1	29,009	291	8,301,884	35.44%	28,529

\*Includes beneficiaries of deceased members with a deferred benefit

\*\*Includes Benefit Adjustments

## ■ Schedule of Funding Progress

Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability	Unfunded (Surplus) Actuarial Accrued Liability	Funded Ratio	Covered Payroll	Unfunded (Surplus) Actuarial Accrued Liability as a Percentage of Covered Payroll
1/1/2017	\$2,050,113,711	\$2,021,526,883	\$(28,586,828)	101.4%	\$513,837,288	(5.56)%
1/1/2016	1,890,604,068	1,846,961,999	(43,642,069)	102.4%	473,359,565	(9.22)%
1/1/2015	1,714,971,185	1,652,901,084	(62,070,101)	103.8%	441,313,862	(14.06)%
1/1/2014	1,546,834,469	1,533,631,141	(13,203,328)	100.9%	426,690,241	(3.09)%
1/1/2013	1,374,576,631	1,404,607,765	30,031,134	97.9%	406,258,662	7.39 %
1/1/2012	1,225,537,747	1,271,490,169	45,952,422	96.4%	384,803,645	11.94 %
1/1/2011	1,080,284,447	1,049,622,033	(30,662,414)	102.9%	353,484,986	(8.67)%
1/1/2010	963,500,681	963,300,852	(199,829)	100.0%	363,265,902	(0.06)%
1/1/2009	856,090,014	847,821,122	(8,268,892)	101.0%	337,918,774	(2.45)%
1/1/2008	950,114,346	795,499,983	(154,614,363)	119.4%	312,857,166	(49.42)%

**Limitations of Funded Status Measurements**

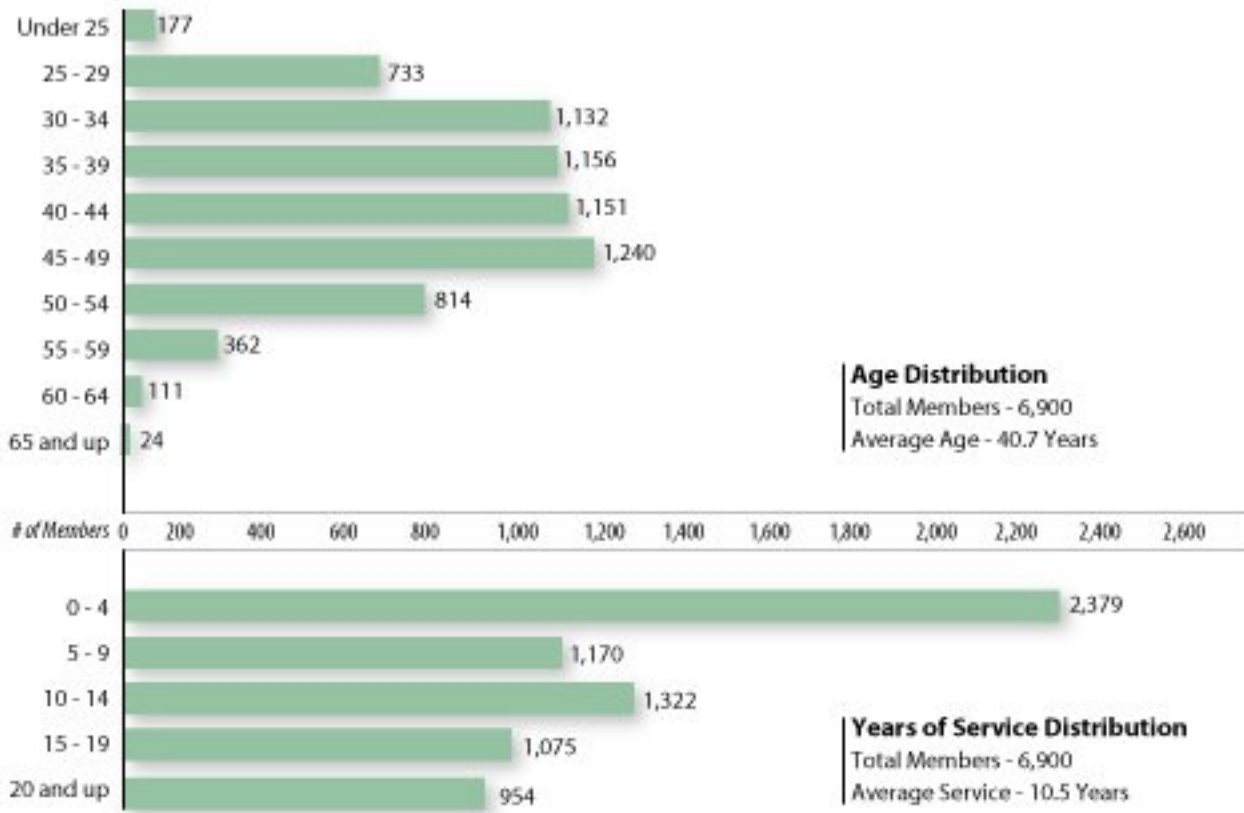
Unless otherwise indicated, a funded status measurement presented in this chart is based upon the actuarial accrued liability and the actuarial value of assets.

With regard to any funded status measurements presented in this chart:

- (1) The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations.
- (2) The measurement alone is inappropriate for assessing the need for or the amount of future employer contributions.
- (3) The measurement would produce a different result if the market value of assets were used instead of the actuarial value of assets, unless the market value of assets is used in the measurement.

Defined Benefit System | Statewide Defined Benefit Plan

■ Age and Years of Service Distribution



## Defined Benefit System | Statewide Defined Benefit Plan

**Solvency Test**

The Fire & Police Pension Association's funding objective for the Defined Benefit System - Statewide Defined Benefit Plan is to be able to pay the retirement benefits promised to the members including the granting of an annual benefit adjustment to all retirees and beneficiaries. The objective is to entirely fund these promised benefits by the total member and employer combined contribution rate. In 2017, the total member and employer combined contribution rate was 17.5% of base salary.

A short-term solvency test is used to check the funding progress towards its funding objective. In a short-term solvency test, the plan's present assets are compared with: (1) liability for active member contributions on deposit, (2) liability for future benefits to present retired lives, (3) liability for service already rendered by active members.

Expressing the net assets available for benefits as a percentage of the different liability measures provides one indication of the funding status on a going-concern basis. Generally, the greater the percentages, the stronger the public employee retirement system.

The schedule on this page illustrates the progress in funding the various liability measures. As can be seen by the funded percentages, the liabilities were not covered by current assets as of the January 1, 2012 and 2013 valuation dates. As of the January 1, 2014 valuation, the liabilities are 100% covered by current assets. This plan does not have any unfunded liability and current contributions exceed the cost of annual benefit accruals.

**■ Solvency Test**

Valuation Date	Valuation Assets (000's)	Aggregate Accrued Liabilities For			Portion of Accrued Liabilities Covered by Reported Assets		
		(1)	(2)	(3)	(1)	(2)	(3)
		Active Member Contributions (000's)	Retirees, Beneficiaries and Vested Terminations (000's)	Members (Employer Financed Portion) (000's)			
1/1/2017	\$2,050,114	\$441,466	\$691,929	\$888,132	100%	100%	100%
1/1/2016	1,890,604	422,699	608,987	815,276	100%	100%	100%
1/1/2015	1,714,971	384,837	521,492	746,572	100%	100%	100%
1/1/2014	1,546,834	369,248	443,857	720,526	100%	100%	100%
1/1/2013	1,374,577	353,206	355,705	695,697	100%	100%	95.7%
1/1/2012	1,225,538	331,763	296,225	643,502	100%	100%	92.9%
1/1/2011	1,080,284	276,908	210,799	561,915	100%	100%	100%
1/1/2010	963,501	259,369	165,390	538,542	100%	100%	100%
1/1/2009	856,090	232,742	135,004	480,075	100%	100%	100%
1/1/2008	950,114	211,285	110,301	473,914	100%	100%	100%

**■ Summary of Plan Provisions****Plan Description**

The Fire & Police Pension Association Defined Benefit System – Statewide Defined Benefit Plan (“Plan”) is a cost-sharing multiple-employer defined benefit pension plan. The Plan covers substantially all full-time employees of participating fire or police departments in Colorado hired on or after April 8, 1978, provided that they are not already covered by a statutorily exempt plan. As of August 5, 2003, the Plan may include clerical and other personnel from fire districts whose services are auxiliary to fire protection. The Plan was established in 1980 pursuant to Colorado Revised Statutes.

## Defined Benefit System | Statewide Defined Benefit Plan

Employers once had the option to elect to withdraw from the Plan, but a change in state statutes permitted no further withdrawals after January 1, 1988 unless the employer elects into and is determined to be eligible to participate in the Statewide Money Purchase Plan.

The Plan assets are included in the Fire & Police Members' Benefit Investment Fund and the Fire & Police Members' Self-Directed Investment Fund (for Deferred Retirement Option Plan "DROP" assets and Separate Retirement Account "SRA" assets from eligible retired members.)

### Plan Year

A twelve-month period ending December 31.

### Members Included

Members included are active employees who are full-time salaried employees of a participating municipality, fire protection district, fire authority, or county improvement district normally serving at least 1,600 hours in a calendar year and whose duties are directly involved with the provision of police or fire protection. As of August 5, 2003, the Plan may include clerical and other personnel employed by a fire protection district, fire authority, or a county improvement district.

Also included are employees of any employer that covers members under the federal Social Security Act or any county that chooses to affiliate with the Fire & Police Pension Association and includes all personnel employed by a sheriff expected to work 1,600 hours or more in a calendar year who are directly involved with the provision of law enforcement or fire protection, as certified by the county.

### Compensation Considered (Base Salary)

Base salary means the total base rate of pay including Member Contributions to the Statewide Defined Benefit Plan or Statewide Money Purchase Plan which are "picked up" by the employer:

- 1) And shall also include longevity pay, sick leave pay taken in the normal course of employment, vacation leave pay taken in the normal course of employment, shift differential, and mandatory overtime that is part of the Member's fixed, periodic compensation.
- 2) Accumulated vacation leave pay will also be included if a Member completes their service requirement for purposes of Normal retirement while exhausting accumulated vacation leave.
- 3) In the event an employer has established or does establish a Deferred Compensation Plan, the amount of the Member's salary that is deferred shall be included in the Member's base salary.
- 4) Any amounts voluntarily contributed to an Internal Revenue Code Section 125 "Cafeteria Plan" shall be included in the Member's base salary.
- 5) Base salary shall not include overtime pay (except as noted in section 1) above), step-up pay or other pay for temporarily acting in a higher rank (a Member is deemed temporarily acting in a higher rank if the appointment to the rank is anticipated to last less than six months.), uniform allowances, accumulated sick leave pay, accumulated vacation leave pay (except as noted in the preceding sentence), and other forms of extra pay (including Member Contributions which are paid by the employer and not deducted from the Member's salary).

### Contribution Rates

Contribution rates for this Plan are set by state statute. Employer contribution rates can only be amended by state statute. Member contribution rates can be amended by state statute or by election of the membership.

Members of this Plan and their employers contributed at the rate of 8 percent of base salary for a total contribution rate of 16 percent through 2014. In 2014, the members elected to increase the member contribution rate to the Plan beginning in 2015. Member contribution rates will increase 0.5 percent annually through 2022 to a total of 12 percent of base salary. Employer contributions will remain at 8 percent resulting in a combined contribution rate of 20 percent in 2022.

## Defined Benefit System | Statewide Defined Benefit Plan

Contributions from members and employers of plans reentering the system are established by resolution and approved by the Fire & Police Pension Association's Board of Directors. The reentry group had a combined contribution rate of 20 percent of base salary through 2014. It is a local decision on who pays the additional 4 percent contribution. Per the 2014 member election, the reentry group also had their required member contribution rate increase 0.5 percent annually beginning in 2015 through 2022 for a total combined member and employer contribution rate of 24 percent.

The contribution rate for members and employers of affiliated social security employers was 4 percent of base salary for a total contribution rate of 8 percent effective January 1, 2007 through 2014. Per the 2014 member election, the affiliated social security group also had their required member contribution rate increase 0.25 percent annually beginning in 2015 through 2022 to a total of 6 percent of base salary. Employer contributions will remain at 4 percent resulting in a combined contribution rate of 10 percent in 2022.

### ■ Contribution Rate Implementation Schedule

Effective Date	Member Contribution Rate	Employer Contribution Rate	Total Combined Contribution Rate
1/1/2014	8.0%	8.0%	16.0%
1/1/2015	8.5%	8.0%	16.5%
1/1/2016	9.0%	8.0%	17.0%
1/1/2017	9.5%	8.0%	17.5%
1/1/2018	10.0%	8.0%	18.0%
1/1/2019	10.5%	8.0%	18.5%
1/1/2020	11.0%	8.0%	19.0%
1/1/2021	11.5%	8.0%	19.5%
1/1/2022	12.0%	8.0%	20.0%
Beyond	12.0%	8.0%	20.0%

*Note: The Statewide Defined Benefit Plan - Reentry group has a combined contribution rate of 20% through 2014. It is a local decision on who pays the additional 4% contribution. Effective 1/1/2015, the member contribution rate will increase by 0.5% per year over 8 years for a total combined member and employer contribution rate of 24%.*

### ■ Supplemental Social Security – Contribution Rate Implementation Schedule

Effective Date	Member Contribution Rate	Employer Contribution Rate	Total Combined Contribution Rate
1/1/2014	4.00%	4.00%	8.00%
1/1/2015	4.25%	4.00%	8.25%
1/1/2016	4.50%	4.00%	8.50%
1/1/2017	4.75%	4.00%	8.75%
1/1/2018	5.00%	4.00%	9.00%
1/1/2019	5.25%	4.00%	9.25%
1/1/2020	5.50%	4.00%	9.50%
1/1/2021	5.75%	4.00%	9.75%
1/1/2022	6.00%	4.00%	10.00%
Beyond	6.00%	4.00%	10.00%

## Defined Benefit System | Statewide Defined Benefit Plan

### Highest Average Salaries (HAS)

HAS is the average of the member's highest three annual base salaries.

### Normal Retirement Date

A member's Normal Retirement shall be the date on which the member has completed at least 25 years of credited service and has attained the age of 55.

### Normal Retirement Benefit

The annual Normal Retirement Benefit shall be 2 percent of the average of the member's highest three years base salary for each year of credited service up to ten years plus 2.5 percent for each year thereafter.

The benefit for members of affiliated social security employers will be reduced by the amount of social security income the member receives annually, calculated as if the social security benefit started as of age 62 for benefits prior to 2007. Beginning January 1, 2007, members of affiliated social security employers will participate in the Fire & Police Pension Association supplemental social security program which will provide benefits equal to 1 percent of the average of the member's highest three years base salary for each year of credited service up to ten years plus 1.25 percent for each year thereafter.

Benefits are paid as a monthly life annuity. Other forms of payment are available.

### Early Retirement Benefit

A member shall be eligible for an Early Retirement Benefit after completion of thirty years of service or attainment of age 50 with at least five years of credited service. The Early Retirement Benefit shall be the Normal Retirement Benefit reduced on an actuarially equivalent basis.

Benefits are paid as a monthly life annuity. Optional forms of payment are available.

### Terminated Vested Benefit

A member who terminates with at least five years of service is vested. A vested member who does not withdraw their contributions from the Plan is eligible for a vested benefit, payable at age 55. The annual vested benefit is equal to 2 percent of the average of the member's highest three years base salary for each year of credited service up to ten years plus 2.5 percent for each year thereafter. Both the highest average salary and service are determined at the time the member leaves active employment or enters the Deferred Retirement Option Plan (DROP). Benefits may commence at age 55.

The benefit for members of affiliated social security employers earned prior to January 1, 2007 will be reduced by the amount of social security income the member receives annually.

Benefits are paid as a monthly life annuity. Other forms of payment are available.

### Deferred Retirement Benefit

Members who qualify for a Normal or Vested Retirement may defer the receipt of their defined benefit pension to as late as age 65 and receive the actuarial equivalent of the benefit.

Benefits are paid as a monthly life annuity. Optional forms of payment are available.

### Severance Benefit

All members leaving covered employment with less than five years of service credit are eligible. Optionally, vested members (those with five or more years of service credit) may withdraw their accumulated contributions in lieu of the future vested benefits otherwise due.

The member receives a lump-sum payment equal to the sum of their member contributions. 5 percent as interest is credited on these contributions.

### Death Benefit of Active Members

Death must have occurred while an active or an inactive, non-retired member.

## Defined Benefit System | Statewide Defined Benefit Plan

Upon the death of a non-vested active, unmarried member with no spouse, no dependent children, and no beneficiary, a refund of the member's contributions is paid to the member's estate. If the member was vested, single and had no dependent children and was not eligible for a Normal or Early retirement, a joint and survivor annuity may be paid to the beneficiary if greater than the refund. The benefit for members of affiliated social security employers earned prior to January 1, 2007 will be reduced by the amount of social security income the member receives annually.

Survivors (spouse or dependent children) of active members who die prior to retirement eligibility are covered by the benefits provided by the Statewide Death & Disability Plan. For purposes of the Statewide Death & Disability Plan benefits, a spouse includes a partner in a civil union.

Survivors of an active or inactive member who is eligible for a Normal or Early retirement and who dies after leaving active service but before electing a payment option or receiving the first pension payment is eligible to receive a benefit according to payment Option 1, (Joint and 100% Survivor benefits).

### Forms of Payment

The Plan provides six choices for receipt of the retirement benefit:

- Normal Option    The retiree receives a full, monthly pension benefit for their life. No monthly benefits are paid to a beneficiary following the retiree's death. However, if at the time of the member's death, they have not recouped in pension payments the amount of the member contributions (including all funds paid in to purchase service credit), the remaining funds plus 5% as interest would be paid to the member's beneficiary or estate as a lump sum.
- Option 1        (Joint and 100% Survivor) - Under Option 1, an actuarially equivalent normal, deferred, early or vested retirement pension will be paid from the effective date of the retiree's retirement or later in the case of a deferred retirement. The actuarially equivalent monthly pension will continue for the life of the retiree. Upon the death of the retiree, the same monthly pension will be paid to the retiree's designated beneficiary for life.
- Option 2        (Joint and 50% Survivor) - Under Option 2, an actuarially equivalent normal, deferred, early or vested retirement pension will be paid from the effective date of the retiree's retirement or later in the case of a deferred retirement. The actuarially equivalent monthly pension will continue for the life of the retiree. Upon the death of the retiree, 50 percent of the same monthly pension will be paid to the retiree's designated beneficiary for life.
- Option 3        (Joint and 50% Last Survivor) - Under Option 3, an actuarially equivalent normal, deferred, early or vested retirement monthly pension will be shared by the retiree and their named beneficiary. Upon the death of either the retiree or the designated beneficiary, 50 percent of the same monthly pension will be paid to the survivor for life.
- Option 4        (Joint and 100% Survivor with "Pop Up") - Under Option 4, an actuarially equivalent normal, deferred, early or vested retirement pension will be paid from the effective date of the retiree's retirement or later in the case of a deferred retirement. The actuarially equivalent, monthly pension will continue for the life of the retiree. Upon the death of the retiree, the same monthly pension will be paid to the retiree's designated beneficiary for life. However, if the designated beneficiary dies before the retiree, the monthly pension benefit "pops-up" or reverts to the Normal Option effective with the first day of the month following the date of the death of the beneficiary.
- Option 5        (Joint and 50% Survivor with "Pop Up") - Under Option 5, an actuarially equivalent normal, deferred, early or vested retirement pension will be paid from the effective date of the retiree's retirement or later in the case of a deferred retirement. The actuarially equivalent monthly pension will continue for the life of the retiree. Upon the death of the retiree, 50 percent of the same monthly pension benefit will be paid to the retiree's beneficiary for life. However, if the beneficiary dies before the retiree, the monthly pension benefit "pops-up" or reverts to the Normal Option effective with the first day of the month following the date of the death of the beneficiary.

## Defined Benefit System | Statewide Defined Benefit Plan

Survivor benefits are paid according to the payment option elected by the member at the time of retirement or entry into DROP.

Actuarial equivalence is based on tables adopted by the Fire and Police Pension Association Board of Directors.

### Benefit Adjustments for Benefits in Pay Status

Benefits to members and beneficiaries may be increased annually on October 1. The amount is based on the Fire & Police Pension Association Board of Directors discretion and can range from 0 percent to the higher of 3 percent or the Consumer Price Index. Benefit adjustment may begin once the retired member has been receiving retirement benefits for at least 12 calendar months prior to October 1.

### Stabilization Reserve Account (SRA)

Annually, at the discretion of the board of directors, the difference between the combined member/employer contribution and the actuarially determined contribution rate may be allocated to the stabilization reserve account (SRA). Amounts set aside in the SRA are allocated to individual accounts for each member. A member may receive the amounts in this individual account only upon election of Normal, Early, Disability or Vested retirement. If the cost of the Plan exceeds the combined member/employer contribution rate, funds from the SRA may be used to make up the shortfall. If a member leaves with less than five years of service credit, the SRA account is forfeited. Likewise, if a vested member elects to take a refund of member contributions instead of a retirement, the SRA is forfeited. The SRA may be payable in the event of the active member's death if the member was vested at the time of death, or if the member's survivors receive benefits from the Statewide Death & Disability Plan, the applicable SRA offset applies.

Members of plans reentering the system have a higher contribution rate. As a result their SRA has two components: the standard SRA and the reentry SRA. The component of the member's SRA attributable to the higher contribution rate is considered the reentry SRA. The reentry SRA cannot be used to subsidize the costs of the non-reentry members. The reentry SRA could be used to correct any deficiencies in the cost of participation for the reentry members only.

A member may elect to convert the SRA or reentry SRA to a lifetime monthly benefit with survivor benefits.

### Deferred Retirement Option Plan (DROP)

A member may elect to participate in the DROP after reaching eligibility for normal retirement, early retirement, or vested retirement and age 55. A member can continue to work while participating in the DROP, but must terminate employment within 5 years of entry into the DROP. The member's percentage of retirement benefit is determined at the time of entry into the DROP. The monthly payments that begin at entry into the DROP are accumulated in a DROP account until the member terminates service, at which time the DROP accumulated benefits can be paid as periodic installments, a lump sum, or if desired a member may elect to convert the DROP to a lifetime monthly benefit with survivor benefits. While participating in DROP, the member continues to make pension contributions, which are credited to the DROP. Effective January 1, 2003, the member shall self-direct the investments of their DROP funds.

### Changes in Plan Provisions

The plan provisions have not changed since the prior valuation.

### Changes in Actuarial Assumptions

There were no changes in actuarial assumptions since the January 1, 2016 valuation.



## Defined Benefit System | Statewide Hybrid Plan - Defined Benefit Component

## ■ Schedule of Active Member Valuation Data

Valuation Date	Number	Average Age	Average Service	Covered Payroll	Annual Average Pay	% Increase in Average Pay
1/1/2017	150	46.3	13.4	\$12,506,946	\$83,380	3.98%
1/1/2016	160	46.1	12.2	12,830,741	80,192	3.05%
1/1/2015	156	46.1	11.5	12,140,184	77,822	2.26%
1/1/2014	170	45.6	10.8	12,937,791	76,105	1.02%
1/1/2013	172	45.3	10.3	12,958,335	75,339	10.58%
1/1/2012	171	44.5	8.9	11,650,031	68,129	(2.59%)
1/1/2011	121	43.4	9.7	8,462,937	69,942	2.20%
1/1/2010	126	42.7	8.9	8,622,865	68,435	6.30%
1/1/2009	114	41.2	8.8	7,338,959	64,377	5.93%
1/1/2008	115	40.9	8.5	6,988,987	60,774	(10.08%)

## ■ Gain (Loss) on Actuarial Value of Assets

	Valuation as of January 1, 2017	Valuation as of January 1, 2016
Actuarial assets, prior valuation	\$47,344,971	\$39,772,760
Total Contributions since prior valuation	5,417,020	5,644,278
Benefits and refunds since prior valuation	(1,296,786)	(971,463)
Assumed net investment income at actuarial rate%*		
Beginning assets	3,550,873	2,982,957
Contributions	203,138	211,660
Benefits and refunds paid	(48,630)	(36,430)
Total	\$3,705,381	\$3,158,187
Expected actuarial assets	\$55,170,586	\$47,603,762
Actual actuarial assets, this valuation	\$54,702,116	\$47,344,971
Asset gain/(loss) since prior valuation	\$(468,470)	\$(258,791)
	Loss	Loss

\*7.5% as of 1/1/2012

## Defined Benefit System | Statewide Hybrid Plan - Defined Benefit Component

## ■ Schedule of Retirees and Beneficiaries Added To and Removed From Benefit Payroll

Year Ended	Added to Payroll*		Removed from Payroll		Payroll		% Increase in Annual Benefit	Average Annual Benefit
	Number	Annual Benefit	Number	Annual Benefit	Number	Annual Benefit		
12/31/2016	6	\$329,916	0	\$0	40	\$1,419,211	30.29%	\$35,480
12/31/2015	9	225,384	0	0	34	1,089,295	26.09%	32,038
12/31/2014	6	266,259	0	0	25	863,911	44.55%	34,556
12/31/2013	3	111,306	0	0	19	597,652	22.89%	31,455
12/31/2012	2	54,220	0	0	16	486,346	12.55%	30,397
12/31/2011	4	174,855	0	0	14	432,126	67.96%	30,866
12/31/2010	4	90,509	0	0	10	257,272	54.27%	25,727
12/31/2009	0	4,858	0	0	6	166,763	3.00%	27,794
12/31/2008	2	59,330	0	0	6	161,905	66.76%	26,984
12/31/2007	1	13,802	0	0	4	97,089	16.57%	24,272

## ■ Schedule of Funding Progress

Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability	Unfunded (Surplus) Actuarial Accrued Liability	Funded Ratio	Covered Payroll	Unfunded (Surplus) Actuarial Accrued Liability as a Percentage of Covered Payroll
1/1/2017	\$54,702,116	\$42,201,793	\$(12,500,323)	129.6%	\$12,631,900	(98.96)%
1/1/2016	47,344,971	35,776,922	(11,568,049)	132.3%	13,118,579	(88.18)%
1/1/2015	39,772,760	29,177,530	(10,595,230)	136.3%	12,462,773	(85.02)%
1/1/2014	34,476,002	26,123,656	(8,352,346)	132.0%	13,246,537	(63.05)%
1/1/2013	29,758,000	23,313,204	(6,444,796)	127.6%	13,384,707	(48.15)%
1/1/2012	23,666,933	18,832,849	(4,834,084)	125.7%	12,195,940	(39.64)%
1/1/2011	18,107,030	13,658,025	(4,449,005)	132.6%	8,770,187	(50.73)%
1/1/2010	15,373,546	12,107,329	(3,266,217)	127.0%	9,026,182	(36.19)%
1/1/2009	13,642,709	10,648,712	(2,993,997)	128.1%	7,726,670	(38.75)%
1/1/2008	14,075,984	9,774,906	(4,301,078)	144.0%	7,342,967	(58.57)%

**Limitations of Funded Status Measurements**

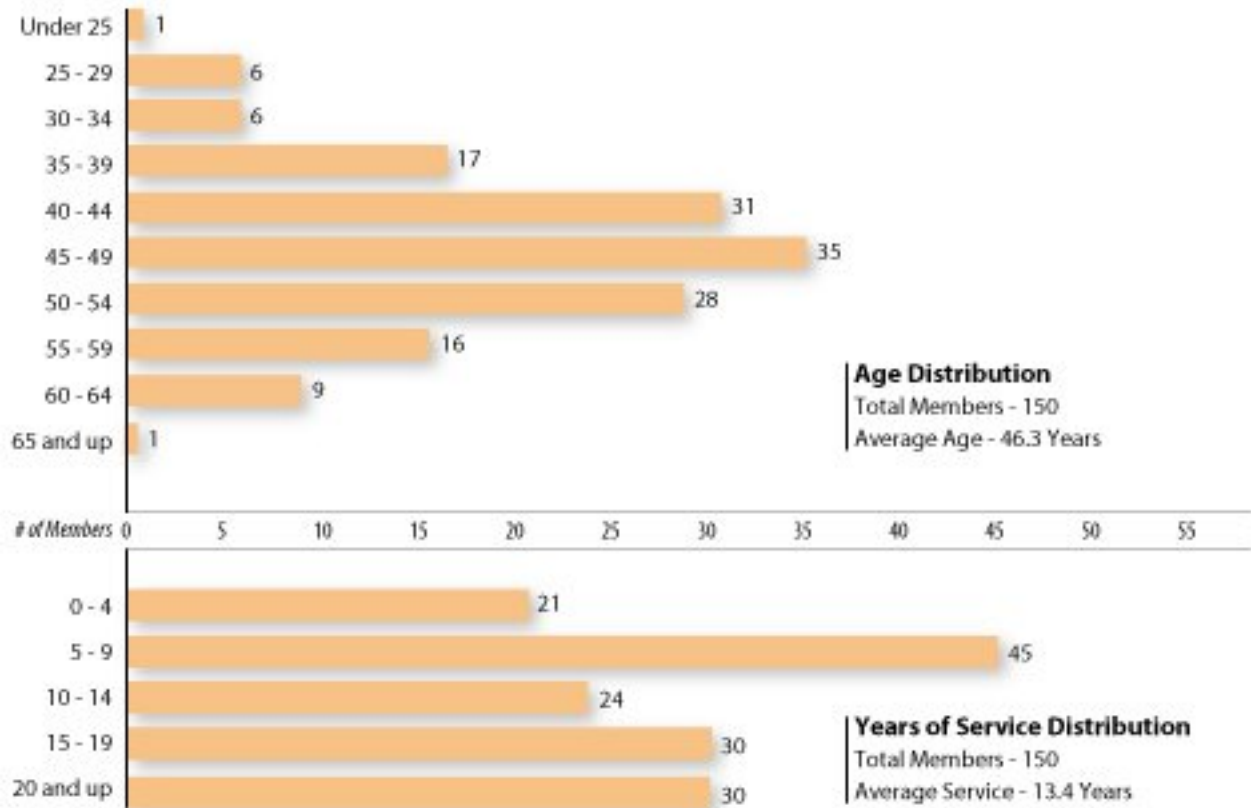
Unless otherwise indicated, a funded status measurement presented in this chart is based upon the actuarial accrued liability and the actuarial value of assets.

With regard to any funded status measurements presented in this chart:

- (1) The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations.
- (2) The measurement alone is inappropriate for assessing the need for or the amount of future employer contributions.
- (3) The measurement would produce a different result if the market value of assets were used instead of the actuarial value of assets, unless the market value of assets is used in the measurement.

Defined Benefit System | Statewide Hybrid Plan - Defined Benefit Component

■ Age and Years of Service Distribution



## Defined Benefit System | Statewide Hybrid Plan - Defined Benefit Component

**Solvency Test**

The Fire & Police Pension Association's funding objective for the Defined Benefit System - Statewide Hybrid Plan is to be able to pay the retirement benefits promised to the members including the granting of an annual benefit adjustment to all retirees and beneficiaries. Contribution rates are actuarially determined each year as the sum of the normal cost and the amortization of the unfunded accrued liability over a period of 30 years from the current valuation date. The board of directors then certifies the rates allocated to the Defined Benefit component of the Statewide Hybrid Plan such that the rates will remain relatively stable over time and that will meet this financing objective. The contribution rate from July 1, 2016 through June 30, 2017 was 13.5%. The contribution rate from July 1, 2017 through June 30, 2018 is 14.8%.

A short-term solvency test is used to check the funding progress towards its funding objective. In a short-term solvency test, the plan's present assets are compared with: (1) liability for active member contributions on deposit, (2) liability for future benefits to present retired lives, (3) liability for service already rendered by active members.

Expressing the net assets available for benefits as a percentage of the different liability measures provides one indication of the funding status on a going-concern basis. Generally, the greater the percentages, the stronger the public employee retirement system.

The following schedule illustrates the progress in funding the various liability measures. As can be seen by the funded percentages, the liabilities are 100% covered by current assets. This plan does not have any unfunded liability and current contributions exceed the cost of annual benefit accruals.

**■ Solvency Test**

Valuation Date	Valuation of Assets	Aggregate Accrued Liabilities For			Funded Percentages		
		(1) Active Member Contributions	(2) Retirees and Beneficiaries	(3) Active Members (Employer Financed Portion)	(1)	(2)	(3)
1/1/2017	\$54,702,116	\$12,984,652	\$18,669,580	\$10,547,561	100%	100%	100%
1/1/2016	47,344,971	12,829,719	14,350,900	8,596,303	100%	100%	100%
1/1/2015	39,772,760	10,736,366	10,903,060	7,538,104	100%	100%	100%
1/1/2014	34,476,002	11,990,004	7,712,307	6,421,345	100%	100%	100%
1/1/2013	29,758,000	12,049,328	5,853,027	5,410,849	100%	100%	100%
1/1/2012	23,666,933	9,883,610	5,280,530	3,668,709	100%	100%	100%
1/1/2011	18,107,030	7,303,256	3,146,943	3,207,826	100%	100%	100%
1/1/2010	15,373,546	7,717,567	2,233,942	2,155,820	100%	100%	100%
1/1/2009	13,642,709	7,488,207	2,201,593	958,912	100%	100%	100%
1/1/2008	14,075,984	9,263,435	1,249,679	(738,208)	100%	100%	100%

**■ Summary of Plan Provisions****Plan Description**

The Fire & Police Pension Association Defined Benefit System – Statewide Hybrid Plan (“Plan”) was established January 1, 2004 as a cost-sharing multiple-employer pension plan covering full-time firefighters and police officers from departments that elect coverage. The Plan may also cover clerical staff, other fire district personnel whose services are auxiliary to fire protection, or Chiefs who have opted out of the Statewide Defined Benefit Plan. The Plan is comprised of two components: Defined Benefit and Money Purchase. With the latter component, members have the option of choosing among various investment options offered by an outside investment manager.

**Defined Benefit System | Statewide Hybrid Plan - Defined Benefit Component**

Employers may not withdraw from the Plan once affiliated. The Plan assets for the Defined Benefit Component are included in the Fire & Police Members' Benefit Investment Fund and Plan assets associated with the Money Purchase Component and the Deferred Retirement Option Plan "DROP" are included in the Fire & Police Members' Self-Directed Investment Fund.

**Plan Year**

A twelve-month period ending December 31.

**Members Included**

Members included are active employees who are full-time salaried employees of a participating municipality, fire protection district, fire authority, or county improvement district normally serving at least 1,600 hours in a calendar year and whose duties are directly involved with the provision of police or fire protection. The Plan may include clerical and other personnel from fire districts whose service are auxiliary to fire protection or sheriff departments, as certified by the county.

**Compensation Considered (Base Salary)**

Base salary means the total base rate of pay including Member Contributions to the Defined Benefit System which are "picked up" by the employer. The definition of Base Salary is subject to the following conditions:

- 1) The definition of Base Salary shall also include longevity pay, sick leave pay taken in the normal course of employment, vacation leave pay taken in the normal course of employment, shift differential, and mandatory overtime that is part of the Member's fixed, periodic compensation.
- 2) Accumulated vacation leave pay shall also be included if a Member completes his/her service requirement for purposes of normal retirement while exhausting accumulated vacation leave.
- 3) In the event an employer has established or does establish a Deferred Compensation Plan, the amount of the Member's salary that is deferred shall be included in the Member's base salary.
- 4) Any amounts voluntarily contributed to an Internal Revenue Code Section 125 "Cafeteria Plan" shall be included in the Member's base salary.
- 5) Base salary shall not include overtime pay (except as noted in (1) above), step-up pay or other pay for temporarily acting in a higher rank (a member is deemed to be temporarily acting in a higher rank if the appointment to the rank is anticipated to last less than six months), uniform allowances, accumulated sick leave pay, accumulated vacation leave pay (except as noted in (2) above), and other forms of extra pay (including Member Contributions which are paid by the employer and not deducted from the Member's salary).

**Defined Benefit System | Statewide Hybrid Plan - Defined Benefit Component**

**Contribution Rates**

The Plan sets contribution rates at a level that enables all benefits to be fully funded at the retirement date of all members. The members of this Plan and their employers are currently each contributing at the rate determined by the individual employer, however, the rate for both employer and members must be at least 8 percent of the member’s base salary for a total of 16 percent. The amount allocated to the Defined Benefit Component is set annually by the Fire & Police Pension Association Board of Directors. Excess contributions fund the Money Purchase Component of the Plan. The Defined Benefit Component of the total contribution rate for this Plan was as follows:

<b>Effective Date</b>	<b>Defined Benefit Portion of the Total Contribution</b>
7/1/2017 - 6/30/2018	14.80%
7/1/2016 - 6/30/2017	13.50%
7/1/2015 - 6/30/2016	12.60%
7/1/2014 - 6/30/2015	12.50%
7/1/2013 - 6/30/2014	12.60%
7/1/2012 - 6/30/2013	13.00%
1/1/2012 - 6/30/2012	12.90%
7/1/2011 - 12/31/2011	11.30%
7/1/2010 - 6/30/2011	11.50%
7/1/2009 - 6/30/2010	11.40%
8/1/2008 - 6/30/2009	11.00%
8/1/2007 - 7/31/2008	10.25%
8/1/2006 - 7/31/2007	11.00%

Within the Money Purchase Component, members are always fully vested in their own contributions, as well as the earnings on those contributions. Vesting in the employer’s contributions within the Money Purchase Component, and earnings on those contributions occurs according to the vesting schedule set by the Plan document at 20 percent per year after the first year of service and to be 100 percent vested after 5 years of service or the attainment of age 55. Employer and member contributions are invested in funds at the discretion of members.

A member may elect to make voluntary after-tax contributions to the Money Purchase Component of the Plan. Additional voluntary contributions from the employer are made on a pre-tax basis.

**Highest Average Salaries (HAS)**

HAS is the average of the member’s highest three annual base salaries.

**Normal Retirement Date**

A member’s Normal Retirement Date shall be the date on which the member has completed at least 25 years of credited service and has attained the age of 55.

**Normal Retirement Benefit**

The annual Normal Retirement Benefit of the Defined Benefit Component is 1.5 percent of the average of the member’s highest three years base salary for each year of credited service.

Benefits of the Defined Benefit Component are paid as a monthly life annuity. Other forms of payment are available.

## Defined Benefit System | Statewide Hybrid Plan - Defined Benefit Component

### Early Retirement Benefit

A member shall be eligible for an Early Retirement Benefit within the Defined Benefit Component after completion of 30 years of service or attainment of age 50 with at least five years of credited service. The Early Retirement Benefit shall be the reduction of the Normal Retirement Benefit on an actuarially equivalent basis.

Benefits of the Defined Benefit Component are paid as a monthly life annuity. Other forms of payment are available.

### Terminated Vested Benefit

A member who terminates with at least five years of active service credit is vested. A vested member who does not withdraw their contributions from the Plan is eligible for a vested benefit within the Defined Benefit Component, payable at age 55. The annual vested benefit is equal to 1.5 percent of the average of the member's highest three years base salary for each year of credited service. Both the highest average salary and service credits are determined at the time the member leaves active employment or enters the Deferred Retirement Option Plan (DROP). Benefits may commence at age 55.

Benefits of the Defined Benefit Component are paid as a monthly life annuity. Other forms of payment are available.

### Deferred Retirement Benefit

Members who qualify for a Normal or Vested Retirement within the Defined Benefit Component may defer the receipt of their defined benefit pension to as late as age 65 and receive the actuarial equivalent of the benefit.

Benefits of the Defined Benefit Component are paid as a monthly life annuity. Other forms of payment are available.

### Severance Benefit

All members with contributions in the Defined Benefit Component and leaving covered employment with less than five years of service credit are eligible. Optionally, vested members (those with five or more years of service credit) may withdraw their accumulated contributions from the Defined Benefit Component in lieu of the benefits otherwise due.

The member receives a lump-sum payment equal to the sum of their member contributions. Five percent as interest is credited on these contributions. In addition, upon termination, the vested account balance within the Money Purchase Component is available to the member.

### Death Benefit of Active Members

Death must have occurred while an active or an inactive, non-retired member.

Upon the death of an active, unmarried member with no spouse, no dependent children, and no beneficiary, a refund of the member's contributions is paid to the member's estate. If the member was eligible for retirement, a joint and survivor annuity may be paid to the beneficiary when the member would have been age 55.

Survivors (spouse or dependent children) of active members who die prior to retirement eligibility are covered by the benefits provided by the Statewide Death & Disability Plan. For purposes of the Statewide Death & Disability Plan, a spouse includes a partner in a civil union.

### Forms of Payment

The Plan provides six choices for receipt of the retirement benefit:

- |               |   |
|---------------|---|
| Normal Option | The retiree receives a full, monthly pension benefit for their life. No monthly benefits are paid to a beneficiary following the retiree's death. However, if at the time of the member's death, they have not recouped in pension payments the amount of the member contributions (including all funds paid in to purchase service credit), the remaining funds plus 5% as interest would be paid to the member's beneficiary or estate as a lump sum. |
| Option 1      | (Joint and 100% Survivor) - Under Option 1, an actuarially equivalent normal, deferred, early or vested retirement pension will be paid from the effective date of the retiree's retirement or later in the case of a deferred retirement. The actuarially equivalent monthly pension will continue for the life of the retiree. Upon the death of the retiree, the same monthly pension will be paid to the retiree's designated beneficiary for life. |

## Defined Benefit System | Statewide Hybrid Plan - Defined Benefit Component

- Option 2 (Joint and 50% Survivor) - Under Option 2, an actuarially equivalent normal, deferred, early or vested retirement pension will be paid from the effective date of the retiree's retirement or later in the case of a deferred retirement. The actuarially equivalent monthly pension will continue for the life of the retiree. Upon the death of the retiree, 50 percent of the same monthly pension will be paid to the retiree's designated beneficiary for life.
- Option 3 (Joint and 50% Last Survivor) - Under Option 3, an actuarially equivalent normal, deferred, early or vested retirement monthly pension will be shared by the retiree and their named beneficiary. Upon the death of either the retiree or the designated beneficiary, 50 percent of the same monthly pension will be paid to the survivor for life.
- Option 4 (Joint and 100% Survivor with "Pop Up") - Under Option 4, an actuarially equivalent normal, deferred, early or vested retirement pension will be paid from the effective date of the retiree's retirement or later in the case of a deferred retirement. The actuarially equivalent, monthly pension will continue for the life of the retiree. Upon the death of the retiree, the same monthly pension will be paid to the retiree's designated beneficiary for life. However, if the designated beneficiary dies before the retiree, the monthly pension benefit "pops-up" or reverts to the Normal Option effective with the first day of the month following the date of the death of the beneficiary.
- Option 5 (Joint and 50% Survivor with "Pop Up") - Under Option 5, an actuarially equivalent normal, deferred, early or vested retirement pension will be paid from the effective date of the retiree's retirement or later in the case of a deferred retirement. The actuarially equivalent monthly pension will continue for the life of the retiree. Upon the death of the retiree, 50 percent of the same monthly pension benefit will be paid to the retiree's beneficiary for life. However, if the beneficiary dies before the retiree, the monthly pension benefit "pops-up" or reverts to the Normal Option effective with the first day of the month following the date of the death of the beneficiary.

Survivor benefits are paid according to the payment option elected by the member at the time of retirement or entry into DROP.

Actuarial equivalence is based on tables adopted by the Fire & Police Pension Association Board of Directors.

### Benefit Adjustments for Benefits in Pay Status

Benefits to members and beneficiaries may be increased annually on October 1. The amount is based on the Fire & Police Pension Association Board of Directors discretion and can range from 0 percent to 3 percent. Benefit adjustment may begin once the retired member has been receiving retirement benefits for at least 12 calendar months prior to October 1.

### Deferred Retirement Option Plan (DROP)

A member may elect to participate in the DROP after reaching eligibility for normal retirement, early retirement or vested retirement and age 55. A member continues to work while participating in the DROP, but must terminate employment within 5 years of entry into the DROP. The member's percentage of retirement benefit is frozen at the time of entry into the DROP. The monthly payments that begin at entry into the DROP are accumulated until the member terminates service, at which time the DROP accumulated benefits can be paid as periodic installments, a lump sum, or if desired a member may elect to convert the DROP to a lifetime monthly benefit with survivor benefits. The member continues to make contributions, which are credited to the DROP. The member shall self-direct the investments of their DROP funds.

### Changes in Plan Provisions

The plan provisions have not changed since the prior valuation.

### Changes in Actuarial Assumptions

There were no changes in actuarial assumptions since the January 1, 2016 valuation.



### Defined Benefit System | Colorado Springs New Hire Pension Plan

Two plans from the City of Colorado Springs joined the Fire & Police Pension Association Defined Benefit System as of October 1, 2006. They are now one single-employer defined benefit pension plan, Colorado Springs New Hire Pension Plan (“Plan”), but with a fire component and a police component for fire and police employees hired by the City of Colorado Springs on or after April 8, 1978 but prior to October 1, 2006. The plan is closed to new members as of October 1, 2006.

Employers may not withdraw from the Fire & Police Pension Association Defined Benefit System once elected. The Plan members had opportunities to transfer to the Fire & Police Pension Association Defined Benefit System - Statewide Defined Benefit Plan in conjunction with the administrative change. The Plan assets are included in the Fire & Police Members’ Benefit Investment Fund and the Fire & Police Members’ Self-Directed Investment Fund (for Deferred Retirement Option Plan “DROP” assets and Separate Retirement Account assets from eligible retired members).

Note: The fire and police components are studied separately.

#### ■ Schedule of Active Member Valuation Data

	Valuation Date	Number	Average Age	Average Service	Covered Payroll	Annual Average Pay	% Increase in Average Pay
<b>Police Component</b>	1/1/2017	318	46.2	18.0	\$25,429,284	\$79,966	1.50%
	1/1/2016	350	45.8	17.4	27,575,061	78,786	2.79%
	1/1/2015	384	45.2	16.7	29,432,993	76,648	2.98%
	1/1/2014	409	44.6	16.1	30,441,800	74,430	4.23%
	1/1/2013	426	43.7	15.2	30,420,085	71,409	0.80%
	1/1/2012	443	42.9	14.3	31,381,480	70,839	(0.19%)
	1/1/2011	470	42.2	13.6	33,357,527	70,973	0.02%
	1/1/2010	501	41.5	12.9	35,550,304	70,959	1.41%
	1/1/2009	525	40.7	12.1	36,735,114	69,972	0.71%
	1/1/2008	562	40.1	11.3	39,048,754	69,482	8.42%
<b>Fire Component</b>	1/1/2017	110	47.3	18.3	\$9,619,561	\$87,451	1.80%
	1/1/2016	130	47.5	18.6	11,167,162	85,901	2.09%
	1/1/2015	149	47.5	18.6	12,537,370	84,143	4.60%
	1/1/2014	155	46.8	17.8	12,468,196	80,440	4.87%
	1/1/2013	161	46.0	17.0	12,349,627	76,706	1.27%
	1/1/2012	165	45.0	16.0	12,497,987	75,745	1.69%
	1/1/2011	264	43.1	14.0	19,664,027	74,485	(0.39%)
	1/1/2010	288	42.7	13.7	21,535,495	74,776	1.44%
	1/1/2009	305	42.3	13.3	22,483,956	73,718	(1.31%)
	1/1/2008	319	41.7	12.5	23,827,770	74,695	14.54%

## Defined Benefit System | Colorado Springs New Hire Pension Plan

## ■ Gain (Loss) on Actuarial Value of Assets

	Police Component		Fire Component	
	Valuation as of January 1, 2017	Valuation as of January 1, 2016	Valuation as of January 1, 2017	Valuation as of January 1, 2016
Actuarial assets, prior valuation	\$271,515,321	\$253,937,185	\$126,813,938	\$120,350,555
Total Contributions since prior valuation	10,140,632	10,409,669	4,569,688	4,640,109
Benefits and refunds since prior valuation	(12,109,879)	(10,187,956)	(7,766,131)	(6,228,574)
Assumed net investment income at actuarial rate%*				
Beginning assets	20,363,649	19,045,289	9,511,045	9,026,292
Contributions	380,274	390,363	171,364	174,004
Benefits and refunds paid	(454,120)	(382,048)	(291,230)	(233,572)
Total	\$20,289,803	\$19,053,604	\$9,391,179	\$8,966,724
Expected actuarial assets	\$289,835,877	\$273,212,502	\$133,008,674	\$127,728,814
Actual actuarial assets, this valuation	\$286,951,659	\$271,515,321	\$131,529,543	\$126,813,938
Asset gain/(loss) since prior valuation	\$(2,884,218)	\$(1,697,181)	\$(1,479,131)	\$(914,876)
	Loss	Loss	Loss	Loss

\*7.5% as of 1/1/2012

## Defined Benefit System | Colorado Springs New Hire Pension Plan

## ■ Schedule of Retirees and Beneficiaries Added To and Removed From Benefit Payroll

	Year Ended	Added to Payroll*		Removed from Payroll		Payroll		% Increase in Annual Benefit	Average Annual Benefit
		Number	Annual Benefit	Number	Annual Benefit	Number	Annual Benefit		
<b>Police</b>	12/31/2016	27	\$1,251,164	3	\$86,395	274	\$11,818,155	10.93%	\$43,132
<b>Component</b>	12/31/2015	26	1,266,408	1	32,035	250	10,653,386	13.11%	42,614
	12/31/2014	24	1,230,728	1	22,383	225	9,419,013	14.72%	41,862
	12/31/2013	9	460,165	2	75,382	202	8,210,668	4.92%	40,647
	12/31/2012	9	428,295	2	73,884	195	7,825,885	4.74%	40,133
	12/31/2011	25	1,044,739	3	97,040	188	7,471,474	14.53%	39,742
	12/31/2010	21	1,007,007	0	0	166	6,523,775	18.25%	39,300
	12/31/2009	16	791,367	1	14,525	145	5,516,768	16.39%	38,047
	12/31/2008	17	847,350	0	0	130	4,739,926	21.77%	36,461
	12/31/2007	21	897,046	0	0	113	3,892,576	29.95%	34,448
<b>Fire</b>	12/31/2016	23	\$1,149,453	1	\$30,677	161	\$7,776,184	16.80%	\$48,299
<b>Component</b>	12/31/2015	19	1,149,542	1	37,545	139	6,657,408	20.05%	47,895
	12/31/2014	6	257,233	0	0	121	5,545,411	4.86%	45,830
	12/31/2013	7	275,015	2	71,310	115	5,288,178	4.01%	45,984
	12/31/2012	2	96,704	0	0	110	5,084,473	1.94%	46,222
	12/31/2011	14	711,103	1	18,613	108	4,987,769	16.12%	46,183
	12/31/2010	16	901,143	0	0	95	4,295,279	26.55%	45,213
	12/31/2009	14	725,800	0	0	79	3,394,136	27.20%	42,964
	12/31/2008	11	536,669	0	0	65	2,668,336	25.18%	41,051
	12/31/2007	12	592,154	0	0	54	2,131,667	38.46%	39,475

\*Includes Cost-of-Living Adjustments granted since the prior valuation.

## Defined Benefit System | Colorado Springs New Hire Pension Plan

## ■ Schedule of Funding Progress

	Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability	Unfunded (Surplus) Actuarial Accrued Liability	Funded Ratio	Covered Payroll	Unfunded (Surplus) Actuarial Accrued Liability as a Percentage of Covered Payroll
<b>Police</b>	1/1/2017	\$286,951,659	\$331,007,540	\$44,055,881	86.7%	\$25,429,284	173.25%
<b>Component</b>	1/1/2016	271,515,321	319,975,168	48,459,847	84.9%	27,575,061	175.74%
	1/1/2015	253,937,185	297,810,707	43,873,522	85.3%	29,432,993	149.06%
	1/1/2014	233,009,247	281,166,840	48,157,593	82.9%	30,441,800	158.20%
	1/1/2013	212,428,394	258,960,907	46,532,513	82.0%	30,420,085	152.97%
	1/1/2012	197,710,046	246,518,300	48,808,254	80.2%	31,381,480	155.53%
	1/1/2011	187,249,190	226,088,133	38,838,943	82.8%	33,357,427	116.43%
	1/1/2010	170,960,335	213,764,095	42,803,760	80.0%	35,550,304	120.40%
	1/1/2009	156,099,012	198,695,916	42,596,904	78.6%	36,735,114	115.96%
	1/1/2008	178,548,098	188,263,199	9,715,101	94.8%	39,048,754	24.88%
<b>Fire</b>	1/1/2017	\$131,529,543	\$163,542,442	\$32,012,899	80.4%	\$9,619,561	332.79%
<b>Component</b>	1/1/2016	126,813,938	157,971,179	31,157,241	80.3%	11,167,162	279.01%
	1/1/2015	120,350,555	145,875,351	25,524,796	82.5%	12,537,370	203.59%
	1/1/2014	111,882,235	138,255,953	26,373,718	80.9%	12,468,196	211.53%
	1/1/2013	103,516,709	129,466,329	25,949,620	80.0%	12,349,627	210.12%
	1/1/2012	98,326,872	124,211,363	25,884,491	79.2%	12,497,987	207.11%
	1/1/2011	108,848,941	127,909,057	19,060,116	85.1%	19,664,027	96.93%
	1/1/2010	100,709,022	121,361,624	20,652,602	83.0%	21,535,495	95.90%
	1/1/2009	92,515,096	113,068,434	20,553,338	81.8%	22,483,956	91.41%
	1/1/2008	104,946,386	107,389,381	2,442,995	97.7%	23,827,770	10.25%

**Limitations of Funded Status Measurements**

Unless otherwise indicated, a funded status measurement presented in this chart is based upon the actuarial accrued liability and the actuarial value of assets.

With regard to any funded status measurements presented in this chart:

- (1) The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations.
- (2) The measurement alone is inappropriate for assessing the need for or the amount of future employer contributions.
- (3) The measurement would produce a different result if the market value of assets were used instead of the actuarial value of assets, unless the market value of assets is used in the measurement.

## Defined Benefit System | Colorado Springs New Hire Pension Plan

## ■ Age and Years of Service Distribution \*

	Valuation Date	Average Age	Average Service
<b>Police Component</b>	1/1/2017	46.2	18.0
	1/1/2016	45.8	17.4
	1/1/2015	45.2	16.7
	1/1/2014	44.6	16.1
	1/1/2013	43.7	15.2
	1/1/2012	42.9	14.3
	1/1/2011	42.2	13.6
	1/1/2010	41.5	12.9
	1/1/2009	40.7	12.1
	1/1/2008	40.1	11.3
<b>Fire Component</b>	1/1/2017	47.3	18.3
	1/1/2016	47.5	18.6
	1/1/2015	47.5	18.6
	1/1/2014	46.8	17.8
	1/1/2013	46.0	17.0
	1/1/2012	45.0	16.0
	1/1/2011	43.1	14.0
	1/1/2010	42.7	13.7
	1/1/2009	42.3	13.3
	1/1/2008	41.7	12.5

\*A breakdown by age/service was not available in the actuarial valuations.

## Defined Benefit System | Colorado Springs New Hire Pension Plan

**Solvency Test**

The Fire & Police Pension Association's funding objective for the Defined Benefit System – Colorado Springs New Hire Pension Plan is to be able to pay the retirement benefits promised to the members including the granting of an annual cost-of-living increase to all retirees and beneficiaries. Contribution rates are actuarially determined each year as the sum of the normal cost and the amortization of the unfunded accrued liability over a period of 21 years from the January 1, 2017 valuation. The board of directors then certifies the rates allocated to the fire and police components of the Colorado Springs New Hire Pension Plan such that the rates will remain relatively stable over time and that will meet this financing objective. As of January 1, 2017, the fire plan annual required contribution is \$5,132,890. Of this amount the members of the plan contribute 10% of basic salary and the employer remitted the remainder. Effective January 1, 2018, the fire plan annual required contribution is \$4,981,787. For the police plan, the annual required contribution for 2017 was \$10,368,391. Of this amount the members of the plan contributed 8% of basic salary and the employer remitted the remainder. Effective January 1, 2018, the annual required contribution is \$9,479,498.

A short-term solvency test is used to check the funding progress towards its funding objective. In a short-term solvency test, the plan's present assets are compared with: (1) liability for active member contributions on deposit, (2) liability for future benefits to present retired lives, (3) liability for service already rendered by active members.

Expressing the net assets available for benefits as a percentage of the different liability measures provides one indication of the funding status on a going-concern basis. Generally, the greater the percentages, the stronger the public employee retirement system. The following schedule illustrates the progress in funding the various liability measures. As can be seen by the funded percentages, the liabilities are not covered by current assets.

**■ Solvency Test**

	Valuation Date	Valuation Assets (000's)	Aggregate Accrued Liabilities For			Funded Percentages		
			(1)	(2)	(3)	(1)	(2)	(3)
			Active Member Contributions (000's)	Retirees and Beneficiaries (000's)	Active Members (Employer Financed Portion) (000's)			
<b>Police</b>	1/1/2017	\$286,952	\$29,768	\$179,910	\$121,329	100%	100%	63.69%
<b>Component</b>	1/1/2016	271,515	30,658	161,841	127,476	100%	100%	61.99%
	1/1/2015	253,937	31,514	139,420	126,876	100%	100%	65.42%
	1/1/2014	233,009	31,545	124,081	125,541	100%	100%	61.64%
	1/1/2013	212,428	30,326	118,304	110,331	100%	100%	57.82%
	1/1/2012	197,710	29,048	112,336	105,134	100%	100%	53.58%
	1/1/2011	187,249	28,721	96,564	100,804	100%	100%	61.47%
	1/1/2010	170,960	28,025	82,218	103,521	100%	100%	58.65%
	1/1/2009	156,099	26,693	70,017	101,986	100%	100%	58.23%
	1/1/2008	178,548	26,162	57,986	104,116	100%	100%	90.67%
<b>Fire</b>	1/1/2017	\$131,530	\$11,906	\$112,324	\$39,312	100%	100%	18.57%
<b>Component</b>	1/1/2016	126,814	13,776	97,364	46,831	100%	100%	33.47%
	1/1/2015	120,351	15,131	78,621	52,124	100%	100%	51.03%
	1/1/2014	111,882	14,705	75,027	48,525	100%	100%	45.65%
	1/1/2013	103,517	13,989	72,425	43,053	100%	100%	39.73%
	1/1/2012	98,327	12,800	70,830	40,581	100%	100%	36.22%
	1/1/2011	108,849	17,297	59,509	51,103	100%	100%	62.70%
	1/1/2010	100,709	17,531	46,439	57,391	100%	100%	64.02%
	1/1/2009	92,515	17,117	36,551	59,400	100%	100%	65.40%
	1/1/2008	104,946	16,186	29,492	61,711	100%	100%	96.04%

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## ■ Summary of Plan Provisions

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### Police Component

#### Plan Year

A twelve-month period ending December 31.

#### Members Included

Members included are active employees hired on or after April 8, 1978 but prior to October 1, 2006. As of October 1, 2006, administration of the plan has been transferred to the Fire & Police Pension Association and the plan has been closed. All members hired on or after October 1, 2006 will become members of the Fire & Police Pension Association Defined Benefit System - Statewide Defined Benefit Plan.

#### Compensation Considered

Basic salary, including longevity pay, sick pay taken in the normal course of employment, vacation leave pay taken in the normal course of employment, third-week pay and mandatory overtime that is part of the members annual fixed periodic compensation. Also, all salary amounts deferred for 457 or Section 125 "cafeteria plan" are included.

#### Contribution Rates

The Plan sets contribution rates at a level that enables all benefits to be fully funded at the retirement date of all members within each component as determined by the actuarial study. Effective January 1, 2017, the Police Component actuarially determined contribution was \$10,368,391. Of this amount the members of the Plan contributed 8 percent of basic salary and the employer remitted the remainder. Effective January 1, 2018, the actuarially determined contribution is \$9,479,498.

#### Final Average Salary

Final Average Salary is the average of monthly basic salary compensation awarded to the member during the 18 months immediately preceding termination or retirement.

#### Normal Retirement Date

A member's Normal Retirement Date shall be the date on which the member has completed at least 25 full years of credited service and has attained age 50.

#### Normal Retirement Benefit

Any member who elects to retire on or after his Normal Retirement Date shall be eligible for a monthly pension equal to 2 percent of Final Average Salary for each full year of service for the first 10 years, plus 2.75 percent of Final Average Salary for each full year of service in excess of 10 years. The maximum monthly pension is 75 percent of Final Average Salary. The maximum pension is earned upon completing 30 years of service.

#### Early Retirement Benefit

A member under the Police Component who has a minimum of 20 years of service is eligible to receive a reduced, early retirement pension benefit beginning at age 45. The early retirement pension benefit shall be equal to 2 percent of Final Average Salary for each full year of service for the first 10 years, plus 2.75 percent for each full year of service thereafter, not to exceed the maximum monthly pension benefit of 75 percent, reduced by 7.5 percent for each year and portion thereof that the benefit commences prior to age 50.

Any member hired prior to May 1, 2001, who has completed at least 20 years of service and who has attained the age of 45 years may elect to retire from active service but shall receive 50 percent of the member's Final Average Salary, with that amount reduced by 0.5 percent for each month or portion thereof that such member lacks to attain the age of 50 years as of the date of retirement.

Any member hired after April 30, 2001, and before October 1, 2003, who has completed at least 20 years of service prior to attaining the age of 45 years may elect to retire from active service shall receive 50 percent of the member's Final Average Salary,

## Defined Benefit System | Colorado Springs New Hire Pension Plan

with that amount reduced by 0.5 percent for each month or portion thereof that such member lacks to attain the age of 50 years as of the date of retirement.

### Deferred Retirement Benefit

Any member retiring and eligible for a Normal Retirement Benefit may elect to defer receipt of such pension until attaining the age of 65 years. In the case of such an election, the annual deferred retirement pension shall be actuarially equivalent to the normal retirement pension.

### Terminated Vested Benefit

A member who terminates with at least 10 years of active service may leave the contributions in the Plan and when the member attains age 50 be eligible to receive a monthly vested benefit equal to 2 percent of Final Average Salary for each full year of credited service for the first 10 years, plus 2.75 percent of Final Average Salary for each full year of credited service in excess of 10 years. The maximum benefit is 75 percent of Final Average Salary.

### Severance Benefit

In lieu of a future pension, a member may upon termination elect to have the accumulated member contributions refunded in a lump sum. Interest is credited at 5 percent per annum.

### Death & Disability Benefit of Active Members

Disabled members and survivors (spouse or dependent children) of active members who die prior to retirement eligibility are covered by the benefits provided by the Fire & Police Pension Association Statewide Death & Disability Plan.

### Post-Retirement Death Benefit

If a retired member dies, the "qualified surviving spouse" shall receive, until death, a monthly pension equal to 70 percent of the monthly benefit the member was receiving prior to death, including cost-of-living increases. If there is no "qualified surviving spouse" or if the qualified surviving spouse dies, each qualified surviving child should receive equal shares of the qualified surviving spouses benefit, as long as the child remains a "qualified child." For purposes of this Plan, a spouse includes a partner in a civil union.

### Cost-of-Living Adjustment (COLA)

Benefits are increased to reflect increases in the consumer price index but in no case may benefits be increased by more than 3 percent for any one year. Cost-of-living adjustments begin on October 1st immediately prior to the earlier of attainment of age 60 or 10 years after benefit payments commenced.

### Deferred Retirement Option Plan (DROP)

A member may elect to participate in the DROP after reaching eligibility for Normal Retirement. A member continues to work while participating in the DROP, but must terminate employment within 5 years of entry into the DROP. The member's percentage of retirement benefit is frozen at the time of entry into the DROP. The monthly payments that begin at entry into the DROP are accumulated until the member terminates service, at which time the DROP accumulated benefits can be paid as a lump sum, if desired. The member continues contributing the member contribution rate which is credited to the DROP. Effective March 1, 2003, the member shall self-direct the investments of their DROP funds.

### Purchase of Service Credit

Active members of this Plan may purchase service credit for other employment completed within the United States not covered by this Plan. The cost of such service credit purchase shall be determined by the Fire & Police Pension Association Board of Directors and shall be on an actuarially equivalent basis. A member shall not be allowed to purchase service credit to the extent that the additional accrued benefits derived from the purchased service credit would result in the annual amount of the member's benefit exceeding the annual benefit limitation for defined benefit plans as determined under section 415 of the Internal Revenue Code (Ord. 02-114).



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**Defined Benefit System | Colorado Springs New Hire Pension Plan****Stabilization Reserve Account (SRA)**

Annually, at the discretion of the Fire & Police Pension Association Board of Directors, a contribution may be allocated to the SRA based on the actuarial study for the previous year. Amounts set aside in the SRA are allocated to individual accounts for each member. A member may receive the amount in this individual account upon election of normal, early vested, disability, deferred retirement, or in the event of the active member's death. If the cost of the defined benefit plan exceeds the combined member/employer contribution rate, funds from the SRA may be used to make up the shortfall. Effective January 1, 2008, the Separate Retirement Account contribution rate for members of the Police Component was set at 0 percent. The rate will remain at 0 percent for calendar years 2017 and 2018.

**Changes in Plan Provisions**

The plan provisions have not changed since the prior valuation.

**Fire Component****Plan Year**

A twelve-month period ending December 31.

**Members Included**

Members included are active employees hired on or after April 8, 1978 but prior to October 1, 2006. As of October 1, 2006, administration of the plan has been transferred to the Fire & Police Pension Association and the plan has been closed. All members hired on or after October 1, 2006 will become members of the Fire & Police Pension Association Defined Benefit System - Statewide Defined Benefit Plan.

**Compensation Considered**

Basic salary, including longevity pay, sick pay taken in the normal course of employment, vacation leave pay taken in the normal course of employment, third week pay and mandatory overtime (including Annual Pay in lieu of leave) that is part of the members annual fixed periodic compensation. Also, all salary amounts deferred for 457 or Section 125 "cafeteria plan" are included.

**Contribution Rate**

The Plan sets contribution rates at a level that enables all benefits to be fully funded at the retirement date of all members within each component as determined by the actuarial study. Effective January 1, 2017, the Fire Component actuarially determined contribution is \$5,132,890. Of this amount the members of the Plan contribute 10 percent of basic salary and the employer remitted the remainder. Effective January 1, 2018, the actuarially determined contribution is \$4,981,787.

**Final Average Salary**

Final Average Salary is the average of monthly basic salary compensation awarded to the member during the 18 months immediately preceding termination or retirement.

**Normal Retirement**

Date A member's Normal Retirement Date shall be the date on which the member has completed at least 25 years of credited service and has attained age 55.

**Normal Retirement Benefit**

Any member who elects to retire on or after his Normal Retirement Date shall be eligible for a monthly pension equal to 2 percent of Final Average Salary for each year of service for the first 10 years, plus 2.85 percent of Final Average Salary for each year of service in excess of 10 years. The maximum monthly pension is 77 percent of Final Average Salary. The maximum pension is earned upon completing 30 years of service.

**Early Retirement Benefit**

A member shall be eligible for an Early Retirement Benefit payable on or after the attainment of age 50 and completion of 20 years of service. The Early Retirement Benefit is 2 percent of Final Average Salary for each year of service for the first 10 years, plus 2.85 percent of Final Average Salary for each year of service in excess of 10 years. The maximum monthly pension is 77 percent of Final Average Salary. The Early Retirement Benefit shall be reduced 4.615 percent for each year that the benefit commences before age 55.

### Deferred Retirement Benefit

Any member retiring and eligible for a Normal Retirement Benefit may elect to defer receipt of such pension until attaining the age of 65 years. In the case of such an election, the annual deferred retirement pension shall be actuarially equivalent to the normal retirement pension.

### Terminated Vested Benefit

A member who terminates with at least 10 years of active service may leave the contributions in the Plan and when the member attains age 55 be eligible to receive a monthly vested benefit equal to 2 percent of Final Average Salary for each year of credited service for the first 10 years, plus 2.85 percent of Final Average Salary for each year of credited service in excess of 10 years. The maximum benefit is 77 percent of Final Average Salary.

### Severance Benefit

In lieu of a future pension, a member may upon termination elect to have the accumulated member contributions refunded in a lump sum. Interest is credited at 5 percent per annum.

### Death & Disability Benefit of Active Members

Disabled members and survivors (spouse or dependent children) of active members who die prior to retirement eligibility are covered by the benefits provided by the Fire & Police Pension Association Statewide Death & Disability Plan.

### Post-Retirement Death Benefit

If a retired member dies, the “qualified surviving spouse” shall receive, until death, a monthly pension equal to 70 percent of the monthly benefit the member was receiving prior to death, including cost-of-living increases. If there is no “qualified surviving spouse” or if the qualified surviving spouse dies, each qualified surviving child should receive equal shares of the qualified surviving spouses benefit, as long as the child remains a “qualified child.” For purposes of this Plan, a spouse includes a partner in a civil union.

### Cost-of-Living Adjustment (COLA)

Benefits are increased to reflect increases in the consumer price index but in no case may benefits be increased by more than 3 percent for any one year. Cost-of-living adjustments begin on October 1st immediately prior to the earlier of attainment of age 65 or 10 years after benefit payments commenced.

### Deferred Retirement Option Plan (DROP)

A member may elect to participate in the DROP after reaching eligibility for Normal Retirement or the “Rule of 75” with a minimum age of 50 years. This means that a member must attain age 50 and the sum of his or her credited service must total 75 or greater at date of severance in order to qualify for the DROP program. A member continues to work while participating in the DROP, but must terminate employment within 5 years of entry into the DROP. The member’s percentage of retirement benefit is frozen at the time of entry into the DROP. The monthly payments that begin at entry into the DROP are accumulated until the member terminates service, at which time the DROP accumulated benefits can be paid as a lump sum, if desired. The member continues contributing the member contribution rate which is credited to the DROP. The member shall self-direct the investments of their DROP funds.

### Purchase of Service Credit

Active members of this Plan may purchase service credit for other employment completed within the United States not covered by this Plan. The cost of such service credit purchase shall be determined by the Fire & Police Pension Association Board of Directors and shall be on an actuarially equivalent basis. A member shall not be allowed to purchase service credit to the extent that the additional accrued benefits derived from the purchased service credit would result in the annual amount of the member’s benefit exceeding the annual benefit limitation for defined benefit plans as determined under section 415 of the Internal Revenue Code (Ord. 04-107).

### Stabilization Reserve Account (SRA)

Annually, at the discretion of the Fire & Police Pension Association Board of Directors, a contribution may be allocated to the SRA based on the actuarial study for the previous year. Amounts set aside in the SRA are allocated to individual accounts for each member. A member may receive the amounts in this individual account upon election of normal, vested, early, disability, deferred

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**Defined Benefit System | Colorado Springs New Hire Pension Plan**

retirement, or in the event of the active member's death. If the cost of the defined benefit plan exceeds the combined member/employer contribution rate, funds from the SRA may be used to make up the shortfall. Effective January 1, 2008, the Separate Retirement Account contribution rate for members of the Fire Component was set at 0 percent. The rate will remain at 0 percent for calendar years 2017 and 2018.

**Changes in Plan Provisions**

The plan provisions have not changed since the prior valuation.

**Changes in Actuarial Assumptions**

There were no changes in actuarial assumptions since the January 1, 2016 valuation.

## Statewide Death &amp; Disability Plan

## ■ Schedule of Active Member Valuation Data

Valuation Date	Number	Average Age	Average Service	Covered Payroll	Annual Average Pay	% Increase in Average Pay
1/1/2017	11,975	41.5	11.1	\$917,100	\$76,585	3.65%
1/1/2016	11,681	41.7	11.3	863,106	73,890	1.70%
1/1/2015	11,391	41.8	11.5	827,633	72,657	1.66%
1/1/2014	11,341	41.7	11.5	810,578	71,473	0.59%
1/1/2013	11,076	41.8	11.7	787,010	71,055	3.00%
1/1/2012	10,958	41.6	11.5	755,952	68,986	0.22%
1/1/2011	10,903	41.4	11.3	750,497	68,834	1.42%
1/1/2010	11,077	40.8	10.9	751,781	67,869	3.77%
1/1/2009	11,157	40.3	10.4	729,724	65,405	7.34%
1/1/2008	10,971	40.0	10.1	668,502	60,934	3.56%

## ■ Gain (Loss) on Actuarial Value of Assets

	Valuation as of January 1, 2017	Valuation as of January 1, 2016
Actuarial assets, prior valuation	\$361,070,410	\$345,009,408
Total Contributions since prior valuation	18,216,116	16,937,907
Benefits since prior valuation	(26,949,344)	(24,096,515)
Assumed net investment income at actuarial rate%*		
Beginning assets	27,080,281	25,875,706
Contributions	683,104	635,172
Benefits and refunds paid	(1,010,600)	(903,619)
Total	\$26,752,785	\$25,607,259
Expected actuarial assets	\$379,089,967	\$363,458,059
Actual actuarial assets, this valuation	\$374,943,903	\$361,070,410
Asset gain/(loss) since prior valuation	\$(4,146,064)	\$(2,387,649)
	Loss	Loss

\*7.5% as of 1/1/2012

## Statewide Death &amp; Disability Plan

## ■ Schedule of Retirees and Beneficiaries Added To and Removed From Benefit Payroll

Year Ended	Added to Payroll*		Removed from Payroll		Payroll		% Increase in Annual Benefit	Average Annual Benefit
	Number	Annual Benefit	Number	Annual Benefit	Number	Annual Benefit		
12/31/2016	68	\$2,098,542	20	\$413,487	1,111	\$26,580,140	6.77%	\$23,925
12/31/2015	52	1,797,136	9	184,015	1,063	24,895,085	6.93%	23,420
12/31/2014	67	2,082,872	15	299,192	1,020	23,281,964	8.30%	22,825
12/31/2013	56	1,853,252	16	341,854	968	21,498,284	7.56%	22,209
12/31/2012	56	1,721,508	9	166,231	928	19,986,885	8.44%	21,538
12/31/2011	46	1,239,908	18	414,489	881	18,431,608	4.69%	20,921
12/31/2010	50	1,366,173	9	185,774	853	17,606,189	7.19%	20,640
12/31/2009	54	1,537,193	14	312,334	812	16,425,790	8.06%	20,229
12/31/2008	45	1,259,221	20	339,442	772	15,200,931	6.44%	19,690
12/31/2007	39	1,264,925	16	258,356	747	14,281,152	7.58%	19,118

\*Includes benefit adjustments

## Statewide Death &amp; Disability Plan

## ■ Schedule of Funding Progress

Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability	Unfunded (Surplus) Actuarial Accrued Liability	Funded Ratio	Covered Payroll	Unfunded (Surplus) Actuarial Accrued Liability as a Percentage of Covered Payroll
<b>Results Using the Aggregate Funding Method</b>						
1/1/2017	\$374,943,903	\$357,915,920	\$(17,027,983)	104.8%	\$917,099,955	(1.86)%
1/1/2016	361,070,410	344,781,994	(16,288,416)	104.7%	863,105,687	(1.89)%
1/1/2015	345,009,408	298,128,930	(46,880,478)	115.7%	827,633,440	(5.66)%
1/1/2014	325,180,768	284,820,249	(40,360,519)	114.2%	810,578,220	(4.98)%
1/1/2013	305,454,945	272,350,253	(33,104,692)	112.2%	787,009,650	(4.21)%
1/1/2012	290,988,339	255,841,269	(35,147,071)	113.7%	755,952,497	(4.65)%
1/1/2011	281,577,454	260,688,472	(20,888,983)	108.0%	750,497,200	(2.78)%
1/1/2010	266,477,875	250,709,436	(15,768,440)	106.3%	758,113,476	(2.08)%
1/1/2009	257,279,496	241,813,411	(15,466,086)	106.4%	740,172,854	(2.09)%
1/1/2008	300,642,721	223,999,678	(76,643,044)	134.2%	679,223,009	(11.28)%

This plan is valued under the Aggregate Funding Method, where the Actuarial Accrued Liability is set equal to the assets, resulting in no Unfunded Actuarial Accrued Liability and a Funded Ratio of 100%. The Actuarial Accrued Liability reported here is the Present Value of Projected Benefits, less the Present Value of Projected Member Contributions.

Since the Aggregate Funding Method presented in the previous chart does not identify or separately amortize unfunded actuarial liabilities, information about the Statewide Death & Disability Plan's funded status and funding progress has been prepared using the Entry Age Funding Method for this purpose. The information presented below is intended to serve as a surrogate for the funded status and funding progress of the plan.

**Results Using the Entry Age Normal Funding Method**

1/1/2017	\$374,943,903	\$372,201,460	\$(2,742,443)	100.7%	\$917,099,955	(0.30)%
1/1/2016	361,070,410	347,242,942	(13,827,468)	104.0%	863,105,687	(1.60)%
1/1/2015	345,009,408	311,334,019	(33,675,389)	110.8%	827,633,440	(4.07)%
1/1/2014	325,180,768	289,577,412	(35,603,356)	112.3%	810,578,220	(4.39)%
1/1/2013	305,454,945	274,068,253	(31,386,692)	111.5%	787,009,650	(3.99)%
1/1/2012	290,988,339	253,869,640	(37,118,699)	114.6%	755,952,497	(4.91)%
1/1/2011	281,577,454	229,959,016	(51,618,438)	122.4%	750,497,200	(6.88)%
1/1/2010	266,477,875	216,103,895	(50,373,980)	123.3%	758,113,476	(6.64)%
1/1/2009	257,279,496	203,673,786	(53,605,710)	126.3%	740,172,854	(7.24)%
1/1/2008	300,642,721	182,814,659	(117,828,062)	164.5%	679,223,009	(17.35)%

**Limitations of Funded Status Measurements**

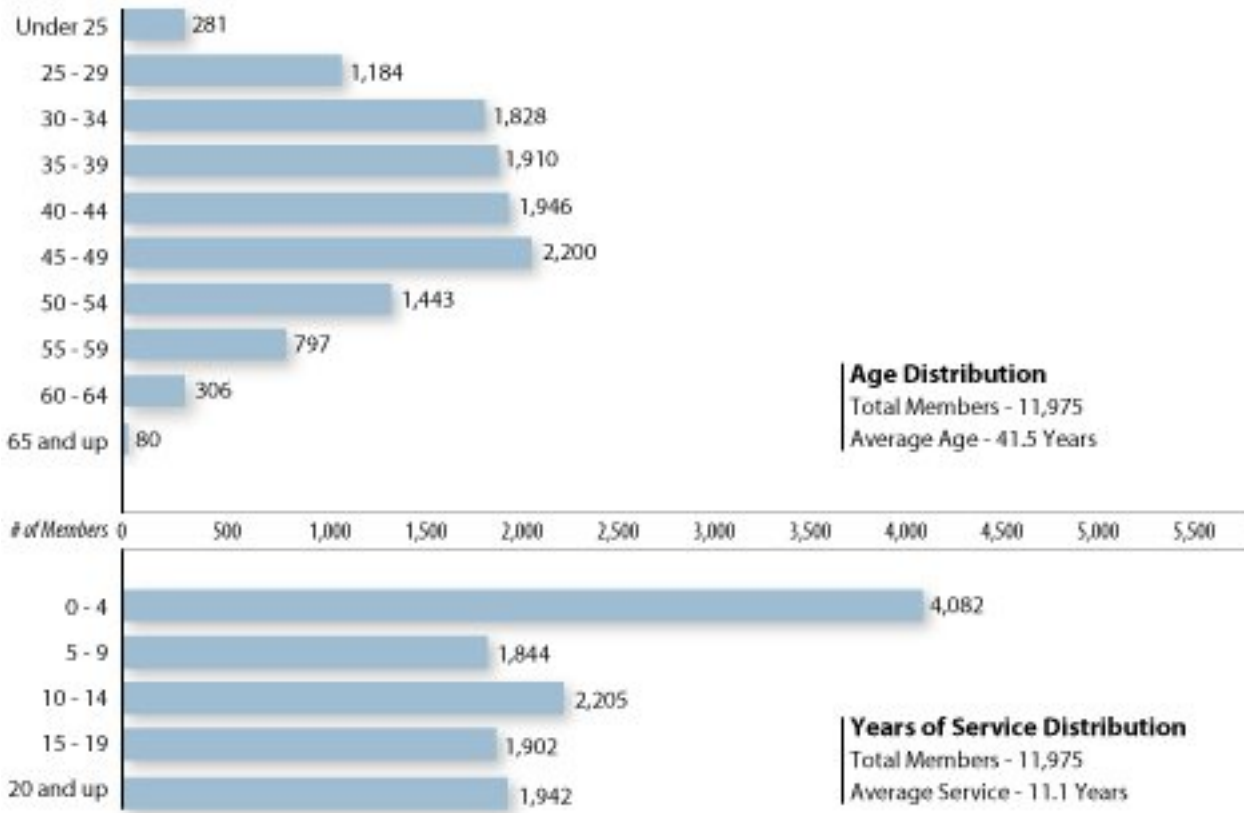
Unless otherwise indicated, a funded status measurement presented in this chart is based upon the actuarial accrued liability and the actuarial value of assets.

With regard to any funded status measurements presented in this chart:

- (1) The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations.
- (2) The measurement alone is inappropriate for assessing the need for or the amount of future employer contributions.
- (3) The measurement would produce a different result if the market value of assets were used instead of the actuarial value of assets, unless the market value of assets is used in the measurement.

Statewide Death & Disability Plan

■ Age and Years of Service Distribution



**Statewide Death & Disability Plan**

**Solvency Test**

The Fire & Police Pension Association’s funding objective for the Statewide Death & Disability Plan is to be able to pay the death and disability benefits promised to the members including the granting of an annual benefit adjustment to all retirees and beneficiaries. The objective is to entirely fund these promised benefits by the contribution rate. For Colorado firefighters and police officers hired on or after January 1, 1997, a percentage of each member’s base salary is required for coverage under the plan. In 2017, the contribution rate was 2.7%.

A short-term solvency test is used to check the funding progress towards its funding objective. In a short-term solvency test, the plan’s present assets are compared with: (1) liability for active member contributions on deposit, (2) liability for future benefits to present retired lives, (3) liability for service already rendered by active members.

Expressing the net assets available for benefits as a percentage of the different liability measures provides one indication of the funding status on a going-concern basis. Generally, the greater the percentages, the stronger the public employee retirement system.

The following schedule illustrates the progress in funding the various liability measures. As can be seen by the funded percentages, the liabilities are 100% covered by current assets. This plan does not have any unfunded liability and current contributions exceed the cost of annual benefit accruals.

■ **Solvency Test**

Valuation Date	Valuation Assets (000's)	Aggregate Accrued Liabilities For			Funded Percentages		
		(1) Active Member Contributions (000's)	(2) Retirees and Beneficiaries (000's)	(3) Active Members (Employer Financed Portion) (000's)	(1)	(2)	(3)
1/1/2017	\$374,944	\$0	\$318,379	\$39,537	100%	100%	100%
1/1/2016	361,070	0	296,216	48,566	100%	100%	100%
1/1/2015	345,009	0	268,883	29,246	100%	100%	100%
1/1/2014	325,181	0	247,646	37,174	100%	100%	100%
1/1/2013	305,455	0	230,546	41,804	100%	100%	100%
1/1/2012	290,988	0	212,239	43,602	100%	100%	100%
1/1/2011	281,577	0	191,243	69,445	100%	100%	100%
1/1/2010	266,478	0	178,039	72,671	100%	100%	100%
1/1/2009	257,279	0	165,740	76,074	100%	100%	100%
1/1/2008	300,643	0	154,614	69,386	100%	100%	100%



## Statewide Death &amp; Disability Plan

## ■ Summary of Plan Provisions

**Plan Description**

The Fire & Police Pension Association Statewide Death & Disability Plan (“Plan”) is a cost-sharing multiple-employer defined benefit death and disability plan covering full-time employees of substantially all fire and police departments in Colorado. As of August 5, 2003, the Plan may include part-time police and fire employees. Contributions to the Plan are used for the payment of death and disability benefits. Employers who are covered by Social Security may elect supplementary coverage by the Plan. The Plan was established in 1980 pursuant to Colorado Revised Statutes. The Plan assets are included in the Fire & Police Members’ Benefit Investment Fund.

Plan benefits provide 24-hour coverage, both on- and off-duty and are available for members not eligible for normal retirement under a defined benefit plan, or members who have not met 25 years of accumulated service and age 55 under a money purchase plan.

In the case of an on-duty death, benefits may be payable to the surviving spouse and/or dependent children of active members who were eligible to retire, but were still working. Death and disability benefits are free from state and federal taxes in the event that a member’s disability is determined to be the result of an on-duty injury or an occupational disease.

**Plan Year**

A twelve-month period ending December 31.

**Members Included**

Members included are active employees who are full-time salaried employees of a participating municipality or fire protection district normally serving at least 1,600 hours in a calendar year and whose duties are directly involved with the provision of police or fire protection. As of August 5, 2003, the Plan may include part-time police and fire employees. A department chief who elects to be exempted from the Fire & Police Pension Association Defined Benefit System and covered under Social Security or Colorado Public Employees Retirement Association shall not be covered by the Plan.

Also included are employees of any employer that covers members under the federal Social Security Act or any county that chooses to affiliate with the Fire & Police Pension Association and includes all personnel employed by a sheriff expected to work 1,600 hours or more in a calendar year who are directly involved with the provision of law enforcement or fire protection, as certified by the county, except that personnel whose position does not require passage of a fitness for duty test shall not be eligible for participation in the Statewide Death & Disability Plan.

**Compensation Considered (Base Salary)**

Base salary means the total base rate of pay including Member Contributions to the Statewide Defined Benefit Plan or Statewide Money Purchase Plan (or contributions to any alternate retirement plan) which are “picked up” by the employer:

- 1) And shall also include longevity pay, sick leave pay taken in the normal course of employment, vacation leave pay taken in the normal course of employment, shift differential, and mandatory overtime that is part of the Member’s fixed, periodic compensation.
- 2) Accumulated vacation leave pay will also be included if a Member completes their service requirement for purposes of Normal retirement while exhausting accumulated vacation leave.
- 3) In the event an employer has established or does establish a Deferred Compensation Plan, the amount of the Member’s salary that is deferred shall be included in the Member’s base salary.
- 4) Any amounts voluntarily contributed to an Internal Revenue Code Section 125 “Cafeteria Plan” shall be included in the Member’s base salary.
- 5) Base salary shall not include overtime pay (except as noted in the preceding sentence), step-up pay or other pay for temporarily acting in a higher rank (a Member is deemed temporarily acting in a higher rank if the appointment to the

## Statewide Death & Disability Plan

rank is anticipated to last less than six months), uniform allowances, accumulated sick leave pay, accumulated vacation leave pay (except as noted in the preceding sentence), and other forms of extra pay (including Member Contributions which are paid by the employer and not deducted from the Member's salary).

- 6) The base salary under the Plan for each Member of the Colorado Springs New Hire Pension Plan shall be the same as the basic salary as defined in the Colorado Springs New Hire Pension Plan.

### Contribution Rates

Prior to 1997, the Plan was primarily funded by the State of Colorado, whose contributions were established by Colorado statute. In 1997 the State made a one-time contribution of \$39,000,000 to fund past and future service costs for all firefighters and police officers hired prior to January 1, 1997. No further State contributions are anticipated.

Members hired on or after January 1, 1997 and members covered by Social Security, began contributing 2.4 percent of base salary to this Plan as of January 1, 1997. The contribution increased to 2.6 percent of base salary as of January 1, 2007. The contribution rate increased to 2.7 percent of base salary as of January 1, 2017. This percentage can vary depending on actuarial experience. All contributions are made by members or on behalf of members. The contribution may be paid entirely by the employer or member, or it may be split between the employer and the member.

### Pre-Retirement Death Benefits

If a member dies prior to normal retirement eligibility while off-duty, the surviving spouse shall receive a benefit equal to 40 percent of the monthly base salary paid to the member prior to death. An additional 10 percent of base salary is payable if a surviving spouse has two or more dependent children. If there is no surviving spouse, but the member had one or two dependent children, the benefit payable is 40 percent of the member's monthly base salary. If there is no spouse but three or more dependent children, the benefit equals 50 percent of the member's monthly base salary.

As of October 15, 2002, if a member dies prior to retirement while on-duty; the surviving spouse shall receive a benefit equal to 70 percent of the member's monthly base salary regardless of the number of dependent children. If there is no spouse but one or more dependent children living in the member's household the benefit equals 70 percent of the member's monthly base salary. If there are dependent children without a surviving spouse, and they do not live in the household, the benefit is 40 percent for the first child and 15 percent for each additional child, but not greater than 70 percent in total of the member's monthly base salary. Benefits will be paid to the spouse until death and to dependent children until age 23, death, marriage or other termination of dependency. Benefits may be extended for an incapacitated child.

For purposes of this Plan, a spouse includes a partner in a civil union. These benefits are offset by Money Purchase account balances, Stabilization Reserve Accounts ("SRA") and Deferred Retirement Option Plan ("DROP") accounts, converted to annuities.

### Disability Benefits

The Plan provides the members with two types of disability: occupational and total.

Occupational Disability means a member is unable to perform their assigned duties due to a medical condition that is expected to last at least 1 year. Assigned duties are those specific tasks or job duties that a member is required to regularly perform. Within the Occupational Disability category, there are two sub-categories: Temporary Occupational Disability and Permanent Occupational Disability.

Temporary Occupational Disability is an occupational disability for which there is prognosis for improvement or recovery through surgical treatment, counseling, medication, therapy or other means.

Permanent Occupational Disability is an occupational disability caused by a condition that is permanent or degenerative and for which there is no prognosis for improvement or recovery through surgical treatment, counseling, medication, therapy or other means.

Total Disability means the member is unable to engage in any substantial gainful activity due to a medically determined physical or mental impairment that may be expected to result in death or that has lasted or is expected to last at least 1 year.

A member who becomes disabled prior to normal retirement eligibility shall be eligible for disability benefits.

## Statewide Death & Disability Plan

If the member is totally disabled, the member shall receive 70 percent of their base salary preceding disability

If the member is occupationally disabled and their disability is determined to be a permanent occupational disability, the member shall receive 50 percent of their base salary preceding disability regardless of their family status. If the member is occupationally disabled and the disability is determined to be a temporary occupational disability, the member shall receive 40 percent of their base salary preceding disability regardless of their family status for up to five years.

Total disability and permanent occupational disability benefits are offset by the Money Purchase, DROP or SRA balances, converted to annuities. For member's who also participate in Social Security, disability benefits are reduced by Social Security disability benefits derived from employment as a member, if applicable.

Temporary Occupational Disability benefits are payable for a maximum of five years. Permanent Occupational and Total Disability benefits are payable as long as the member remains disabled.

### Offsets for SRA, Money Purchase Balances, and DROP

Plan benefits are reduced by the actuarially equivalent annuities of the SRA, Money Purchase, and DROP account balances. A maximum of 16 percent (or 20 percent for reentry members) of the annual Money Purchase contributions apply for this purpose. Benefits provided by the Plan are also offset by any defined benefit that the member may have received due to work as a Colorado firefighter or police officer.

Spousal income, IRAs, insurance benefits, legal awards, and other investment incomes are not subject to any offset. Deferred compensation accounts are generally not subject to an offset. However, if a department chief has contributions directed to a deferred compensation plan in lieu of a pension plan, the benefit award is offset based on the amount in the deferred compensation account. The amount of the offset is calculated in the same manner as the money purchase offset.

Actuarial equivalence is based on tables adopted by the Fire & Police Pension Association Board of Directors.

### Optional Forms of Payment

The Plan provides four choices for receipt of the Permanent Occupational and Total Disability benefits:

- Normal Option    The disabled retiree receives an unreduced benefit, payable for as long as the disability exists and as long as the member remains eligible. Upon the death of the retiree, the benefit is discontinued.
- Option 1        (Joint and 100% Survivor) - The disabled retiree's benefit amount is reduced on an actuarially equivalent basis, payable for as long as the disability exists and as long as the member remains eligible. Upon the death of the retiree, the designated beneficiary receives 100 percent of the retiree's actuarially equivalent reduced benefit for life.
- Option 2        (Joint and 50% Survivor) - The disabled retiree's benefit amount is reduced on an actuarially equivalent basis, payable for as long as the disability exists and as long as the member remains eligible. Upon the death of the retiree, the designated beneficiary receives 50 percent of the retiree's actuarially equivalent reduced benefit for life.
- Option 3        (Family Benefit) - The disabled retiree's benefit amount is reduced on an actuarially equivalent basis, payable for as long as the disability exists and as long as the member remains eligible. Upon the death of the retiree, the actuarially equivalent reduced benefit amount is paid to the surviving spouse\* and dependent children, if any, until the death of the surviving spouse, the death of any incapacitated child, or until the youngest child reaches age 23, whichever is later.

*\*Per FPPA Rule 402.10(c) 'Spouse' for the purposes of Payment Option 3 means the Member's spouse at the time the first benefit payment is negotiated. If the spouse beneficiary is removed by the Member or dies, the Member is not permitted to add a subsequent spouse.*

Actuarial equivalence is based on tables adopted by the Fire & Police Pension Association Board of Directors.

## Statewide Death & Disability Plan

### Benefit Adjustments for Benefits in Pay Status

A benefit adjustment of up to 3 percent may be granted to members and survivors by the Fire & Police Pension Association Board of Directors annually. Totally disabled members and their beneficiaries receive an automatic benefit adjustment each year of 3 percent. The benefit adjustment is effective October 1st. A benefit adjustment may begin after receiving benefits for at least 12 calendar months prior to October 1.

### Changes in Plan Provisions

The plan provisions have not changed since the prior valuation.

### Changes in Actuarial Assumptions

There were no changes in actuarial assumptions since the January 1, 2016 valuation.

## Affiliated Local Plans

Actuarial valuations are completed every other year for the Affiliated Local Plans. The affiliated volunteer fire pension plans' actuarial valuations are completed on the odd years and the old hire actuarial pension plans' actuarial valuations are completed on the even years. Each employer participating in the system is financially responsible for its own liabilities. Accordingly, the aggregate numbers presented in this section are indicative only of the overall condition of the system and are not indicative of the status of any one employer.

### ■ Schedule of Active Member Valuation Data

Valuation Date	Number of Participating Employers	Number of Paid and Volunteer Members	Annual Payroll of Paid Members	Annual Average Pay of Paid Members	% Increase in Average Pay
1/1/2016 and 1/1/2017	221	2,818	281,057	\$93,686	0.0 %
1/1/2015 and 1/1/2016	223	3,170	281,057	93,686	6.5 %
1/1/2014 and 1/1/2015	223	3,174	615,871	87,982	0.0 %
1/1/2013 and 1/1/2014	224	3,458	615,871	87,982	0.6 %
1/1/2012 and 1/1/2013	224	3,461	874,274	87,427	0.0 %
1/1/2011 and 1/1/2012	224	3,730	874,274	87,427	(2.8)%
1/1/2010 and 1/1/2011	226	3,758	3,416,792	89,916	0.7 %
1/1/2009 and 1/1/2010	227	3,730	3,483,331	89,316	9.5 %
1/1/2008 and 1/1/2009	230	3,763	6,199,241	81,569	0.0 %
1/1/2007 and 1/1/2008	228	3,927	6,199,241	81,569	29.2 %

### ■ Gain | (Loss) on Actuarial Value of Assets

Note: Data to calculate a gain/loss analysis on all local plans was not available as of the 1/1/2016 and 1/1/2017 actuarial valuations.

### ■ Schedule of Retirees and Beneficiaries Added To and Removed From Benefit Payroll

Year Ended	Added to Payroll		Removed from Payroll		Payroll		% Increase in Annual Benefit	Average Annual Benefit
	Number	Annual Benefit	Number	Annual Benefit	Number	Annual Benefit		
1/1/2016 and 1/1/2017	N/A	N/A	N/A	N/A	6,526	\$168,488,670	N/A	\$25,818
1/1/2015 and 1/1/2016	N/A	N/A	N/A	N/A	6,433	167,518,196	N/A	26,040
1/1/2014 and 1/1/2015	N/A	N/A	N/A	N/A	6,553	165,215,117	N/A	25,212
1/1/2013 and 1/1/2014	N/A	N/A	N/A	N/A	6,397	163,950,416	N/A	25,629
1/1/2012 and 1/1/2013	N/A	N/A	N/A	N/A	6,538	164,776,863	N/A	25,203
1/1/2011 and 1/1/2012	N/A	N/A	N/A	N/A	6,305	163,638,762	N/A	25,954
1/1/2010 and 1/1/2011	N/A	N/A	N/A	N/A	6,402	158,198,482	N/A	24,711
1/1/2009 and 1/1/2010	N/A	N/A	N/A	N/A	6,185	156,599,326	N/A	25,319
1/1/2008 and 1/1/2009	N/A	N/A	N/A	N/A	6,258	151,639,626	N/A	24,231
1/1/2007 and 1/1/2008	N/A	N/A	N/A	N/A	6,046	150,903,385	N/A	24,959

## Affiliated Local Plans

### Solvency Test

Each employer participating in the system is financially responsible for its own liabilities. Accordingly, the aggregate numbers presented are indicative only of the overall condition of the system and are not indicative of the status of any one employer.

A short-term solvency test is used to check the funding progress towards its funding objective. In a short-term solvency test, the plan's present assets are compared with: (1) liability for active member contributions on deposit, (2) liability for future benefits to present retired lives, (3) liability for service already rendered by active members.

Expressing the net assets available for benefits as a percentage of the different liability measures provides one indication of the funding status on a going-concern basis. Generally, the greater the percentages, the stronger the public employee retirement system.

### ■ Solvency Test

Valuation Date	Valuation Assets (000's)	Aggregate Accrued Liabilities For			Funded Percentages		
		(1)	(2)	(3)	(1)	(2)	(3)
		Active Member Contributions (000's)	Retirees and Beneficiaries (000's)	Active Members (Employer Financed Portion) (000's)			
1/1/2016 and 1/1/2017	\$1,637,880	*	*	\$2,037,472	N/A	N/A	80.4%
1/1/2015 and 1/1/2016	1,625,899	*	*	2,032,517	N/A	N/A	80.0%
1/1/2014 and 1/1/2015	1,637,698	*	*	1,972,326	N/A	N/A	83.0%
1/1/2013 and 1/1/2014	1,619,114	*	*	1,971,130	N/A	N/A	82.1%
1/1/2012 and 1/1/2013	1,516,275	*	*	2,044,975	N/A	N/A	74.1%
1/1/2011 and 1/1/2012	1,501,490	*	*	2,027,014	N/A	N/A	74.1%
1/1/2010 and 1/1/2011	1,626,454	*	*	2,038,237	N/A	N/A	79.8%
1/1/2009 and 1/1/2010	1,618,456	*	*	2,036,108	N/A	N/A	79.5%
1/1/2008 and 1/1/2009	1,855,494	*	*	2,081,304	N/A	N/A	89.2%
1/1/2007 and 1/1/2008	1,859,987	*	*	2,064,576	N/A	N/A	90.1%

\* Included in Column 3

### ■ Summary of Plan Provisions

#### Members Included

The Affiliated Local Plans are for the benefit of two distinct groups. The first of those are fire and police employees of affiliated employers hired prior to April 8, 1978 (Old Hires). The second of those are the volunteer firefighters of affiliated plans.

#### Compensation Considered

Compensation comprises base salary, including longevity, sick and vacation pay.

Volunteer members are not compensated. Their benefit is generally based on the total assets in the plan.

#### Normal Retirement Date

The member's Normal Retirement Date varies with each Old Hire plan. Several plans are based on the date a member has completed years of credited service, usually twenty to twenty-five years. Most plans require the member to complete twenty to twenty-five years of credited service and attain the age of 50 to 55.

Volunteer plans Normal Retirement Date is at age 50 with 20 years of service.

### Normal Retirement Benefit

The annual Normal Retirement Benefit varies with each Old Hire plan. The benefit calculation ranges from 50-75% of salary. Several plans offer a lump sum actuarial equivalent benefit.

Volunteer plans offer a flat dollar benefit from \$0 - \$1,400 per month.

### Deferred Vested Benefit

Some Old Hire plans allow a member to leave their contributions in the fund and be eligible to receive a vested benefit based on salary times years of credited service at termination, usually with a maximum benefit of 50% of pay. The benefit is payable at normal retirement age, typically age 50 or 55. The minimum eligibility for this benefit is usually ten or twenty years of service at termination. Most plans do not offer deferred vested benefits.

Volunteer plans offer a flat dollar benefit that ranges from 50-100% of the normal retirement benefit depending on the years of credited service at termination. The benefit is usually payable at age 50.

### Severance Benefits

In lieu of a future pension, some Old Hire plans offer their members upon termination an election to have accumulated contributions refunded in a lump sum. In addition to receiving accumulated contributions, the member may receive interest on the total accumulated contributions. Most plans do not offer severance benefits.

Volunteer plans are restricted by statute and cannot offer severance benefits.

### Cost-of-Living Adjustments for Benefits in Pay Status

Several Old Hire plans offer a cost-of-living increase to their retirees and beneficiaries. Some only offer an ad-hoc cost-of-living increase. Others offer an escalation benefit based on the rank at which the member retired.

Volunteer plans are restricted by statute and cannot offer a cost-of-living increase.

### Contribution Rates

The contribution rate varies for each Old Hire plan. Paid member rates range from 0-10%.

Volunteer members do not contribute to their plan.

### Pre-Retirement Death and Disability Benefits

The paid Old Hire members are covered by the Statewide Death & Disability Plan.

Some volunteer plans offer a 50% benefit. All volunteer plans are required to pay at least a \$100 lump sum funeral benefit.

### Post-Retirement Death Benefits

Most Old Hire plans offer a 50-100% benefit to the surviving spouse until death or remarriage. Some plans also offer actuarially equivalent post-retirement death benefits.

Some volunteer plans offer a 50% benefit to the surviving spouse until death or remarriage.

### Deferred Retirement Option Plan (DROP)

Several Old Hire plans allow a member to participate in the DROP after reaching eligibility for normal or delayed retirement. A member continues to work while participating in the DROP, but must terminate employment within a given time frame, generally between three to five years of entry into the DROP. The member's percentage of retirement benefit is frozen at the time of entry into the DROP. The monthly payments accumulate in the DROP account until the member terminates service, at which time the DROP and accumulated benefits can be paid as a lump sum or periodic payments, if desired. The member continues contributing the employee percentage of pay which is credited to the DROP.

## Affiliated Local Plans

Volunteer plans are restricted by statute and cannot offer a DROP.

### Changes in Plan Provisions

The provisions of the local plans will vary from plan to plan, as will the periodic changes made to the plans. Local Old Hire plans are required to complete a supplemental actuarial valuation prior to adopting any benefit changes to the plan. Local volunteer fire plans are required to complete a supplemental actuarial valuation if improving their normal retirement benefit above \$100 per month. The following Summary of Actuarial Information and Additional Information is reflective of any changes in plan provisions and is the known Current Plan as of December 31, 2017. The data is adjusted to reflect the impact of such plan provisions as calculated within the required supplemental actuarial study.

### Changes in Actuarial Assumptions

There were no changes to the actuarial assumptions since the prior valuations for the Old Hire plans.

The global assumption set for the Volunteer Firefighter plans administered by FPPA was changed in the 2015 Experience Study and effective with the January 1, 2017 valuations. Significant changes affecting the Volunteer Firefighter plans valuations include:

- Reduce inflation from 3.0% to 2.5%,
- Increase real return from 4.5% to 5.0%,
- Update pre- and post-retirement mortality to a table based on RP-2014 generational mortality. Post-retirement mortality includes a blue collar adjustment for healthy retirees.

An explicit charge, equal to the average of the administrative expenses paid in the two prior fiscal years, is included in the calculated annual contribution.



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## Affiliated Local Plans

## Summary of Actuarial Valuation Information

Employer Plan	Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability	Unfunded (Surplus) Actuarial Accrued Liability	Funded Ratio	Annual Active Covered Payroll
Adams County (North Washington) FPD (Old Hire)	1/1/2016	\$2,611,791	\$3,865,552	\$1,253,761	67.6%	\$0
Adams County (North Washington) FPD (Volunteer)	1/1/2017	168,659	152,178	(16,481)	110.8%	N/A
Alamosa County FPD (Volunteer)	1/1/2017	617,355	643,127	25,772	96%	N/A
Alamosa Fire (Volunteer)	1/1/2017	1,687,928	1,371,270	(316,658)	123.1%	N/A
Allenspark FPD (Volunteer)	1/1/2017	525,595	620,809	95,214	84.7%	N/A
Aspen FPD (Volunteer)	1/1/2017	2,133,263	3,735,243	1,601,980	57.1%	N/A
Ault FPD (Volunteer)	1/1/2017	669,712	1,253,986	584,274	53.4%	N/A
Aurora Fire (Old Hire)	1/1/2016	77,708,819	108,887,994	31,179,175	71.4%	0
Aurora Police (Old Hire)	1/1/2016	93,116,832	131,482,930	38,366,098	70.8%	111,083
Bancroft FPD (Old Hire)	1/1/2016	1,551,179	5,837,771	4,286,592	26.6%	0
Basalt & Rural FPD (Volunteer)	1/1/2017	1,820,737	2,091,710	270,973	87%	N/A
Bennett FPD #7 (Volunteer)	1/1/2017	957,720	798,236	(159,484)	120%	N/A
Berthoud FPD (Volunteer)	1/1/2017	546,050	668,705	122,655	81.7%	N/A
Big Sandy FPD (Volunteer)	1/1/2017	148,756	53,023	(95,733)	280.5%	N/A
Big Thompson Canyon Fire (Volunteer)	1/1/2017	405,372	601,597	196,225	67.4%	N/A
Black Forest Fire Rescue (Volunteer)	1/1/2017	1,235,285	897,220	(338,065)	137.7%	N/A
Blanca Fire (Volunteer)	1/1/2017	154,404	131,802	(22,602)	117.1%	N/A
Boone Fire (Volunteer)	1/1/2017	39,014	39,754	740	98.1%	N/A
Boulder Mountain FPD (Volunteer)	1/1/2017	938,008	1,018,388	80,380	92.1%	N/A
Boulder Rural FPD (Volunteer)	1/1/2017	564,998	1,559,099	994,101	36.2%	N/A
Brighton VFD (Volunteer)	1/1/2017	3,730,997	3,927,656	196,659	95%	N/A
Brush Combined Fire (Volunteer)	1/1/2017	840,991	1,370,946	529,955	61.3%	N/A
Buena Vista Fire (Volunteer)	1/1/2017	455,945	501,431	45,486	90.9%	N/A
Calhan FPD (Volunteer)	1/1/2017	159,661	116,198	(43,463)	137.4%	N/A
Cañon City Area FPD (Old Hire)	1/1/2016	2,995,542	5,316,905	2,321,363	56.3%	0
Cañon City Area FPD (Volunteer)	1/1/2017	262,420	415,042	152,622	63.2%	N/A
Carbondale & Rural FPD (Volunteer)	1/1/2017	2,296,266	2,557,279	261,013	89.8%	N/A
Cascade FPD (Volunteer)	1/1/2017	324,260	432,144	107,884	75%	N/A
Castle Rock Fire (Volunteer)	1/1/2017	976,167	1,201,828	225,661	81.2%	N/A
Cedaredge Police (Old Hire)	1/1/2016	88,706	42,179	(46,527)	210.3%	0
Central City VFD (Volunteer)	1/1/2017	528,709	578,366	49,657	91.4%	N/A
Central Orchard Mesa FPD (Volunteer)	1/1/2017	92,016	297,946	205,930	30.9%	N/A
Cherry Hills FPD (Old Hire)	1/1/2016	2,399,223	4,487,878	2,088,655	53.5%	0
Cheyenne County FPD #1 (Volunteer)	1/1/2017	468,590	554,266	85,676	84.5%	N/A
Clear Creek Fire Authority (Volunteer)	1/1/2017	2,027,871	1,964,696	(63,175)	103.2%	N/A
Clifton FPD (Volunteer)	1/1/2017	1,779,099	1,663,955	(115,144)	106.9%	N/A
Coal Creek Canyon FPD (Volunteer)	1/1/2017	1,056,698	1,491,734	435,036	70.8%	N/A

\*Eligible at age 50 with 20 years of service

Note: Information reported is the known Volunteer Plan Normal Retirement Benefit as of December 31, 2017.

Calculated Annual Contribution	Additional Information							
	Amortization Period (Years)	Number of Active Members	Number of Active Members in DROP	Number of Annuitants	Number of Inactive Members	Average Age of Active Members (Years)	Average Service of Active Members (Years)	Volunteer Plan Normal Retirement Benefit (Monthly)*
\$180,163	10	0	0	10	0	N/A	N/A	N/A
(1,251)	12	0	0	9	0	N/A	N/A	\$350
8,220	20	24	0	18	1	40.7	15.8	200
(23,395)	20	23	0	32	4	31.9	5.9	375
21,575	20	22	0	17	2	47.6	7.1	250
181,797	20	23	0	50	4	41.3	7.7	600
57,919	20	11	0	21	0	42.7	7.8	500
3,184,594	20	0	2	132	0	N/A	N/A	N/A
3,906,280	20	1	0	146	0	61.0	38.9	N/A
706,794	8	0	0	14	0	N/A	N/A	N/A
38,423	20	8	0	38	0	52.6	12.5	575
(5,642)	20	22	0	24	6	32.2	3.5	275
11,746	20	2	0	21	0	42.0	11.0	400
(9,160)	20	10	0	9	0	38.8	8.9	50
29,466	20	15	0	11	3	35.7	4.1	400
(29,408)	20	4	0	20	1	40.0	2.5	500
(1,140)	20	0	0	4	0	N/A	N/A	350
1,224	20	10	0	7	0	37.2	8.8	50
25,036	20	35	0	35	1	53.7	10.5	200
102,338	20	7	0	30	4	43.3	8.9	500
18,752	20	1	0	38	4	N/A	N/A	950
64,660	20	26	0	36	4	37.8	8.6	260
10,422	20	13	0	12	4	42.8	5.0	250
(1,129)	20	14	0	2	3	39.2	8.1	150
226,589	20	0	0	11	0	N/A	N/A	N/A
18,006	20	11	0	14	0	42.0	8.8	200
90,385	20	42	0	45	5	41.2	4.2	500
13,283	20	10	0	16	0	48.8	9.7	200
25,867	20	2	0	19	1	49.5	16.0	675
(9,622)	6	0	0	1	0	N/A	N/A	N/A
15,691	20	13	0	8	3	30.8	2.2	500
23,306	20	10	0	9	0	45.5	7.8	270
214,110	18	0	0	11	0	N/A	N/A	N/A
11,230	20	27	0	17	0	39.3	9.4	200
(7,705)	20	8	0	38	9	40.0	13.5	450
(5,280)	20	6	0	27	4	38.4	5.4	600
61,472	20	32	0	34	9	46.8	6.9	300

## Affiliated Local Plans

## Summary of Actuarial Information

Employer Plan	Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability	Unfunded (Surplus) Actuarial Accrued Liability	Funded Ratio	Annual Active Covered Payroll
Colorado River (Burning Mountain) FPD (Volunteer)	1/1/2017	\$2,561,833	\$3,065,210	\$503,377	83.6%	N/A
Colorado River (Rifle) FPD (Volunteer)	1/1/2017	4,955,605	3,085,440	(1,870,165)	160.6%	N/A
Colorado Springs Fire (Old Hire)	1/1/2016	76,765,326	98,527,662	21,762,336	77.9%	0
Colorado Springs Police (Old Hire)	1/1/2016	64,742,685	82,286,576	17,543,891	78.7%	0
Cortez Police (Old Hire)	1/1/2016	290,784	173,129	(117,655)	168%	0
Crested Butte FPD (Volunteer)	1/1/2017	3,306,819	3,237,360	(69,459)	102.1%	N/A
Cripple Creek Fire (Volunteer)	1/1/2017	557,841	183,953	(373,888)	303.3%	N/A
Crowley VFD (Volunteer)	1/1/2017	44,339	12,125	(32,214)	365.7%	N/A
Crystal Lakes FPD (Volunteer)	1/1/2017	294,417	180,424	(113,993)	163.2%	N/A
Del Norte Police (Old Hire)	1/1/2016	1,349	12,915	11,566	10.4%	0
Denver Fire (Old Hire)	1/1/2016	346,003,532	497,663,581	151,660,049	69.5%	89,857
Denver Police (Old Hire)	1/1/2016	630,910,491	702,470,993	71,560,502	89.8%	0
Divide VFD (Volunteer)	1/1/2017	498,386	378,576	(119,810)	131.6%	N/A
Donald Westcott FPD (Volunteer)	1/1/2017	940,407	771,182	(169,225)	121.9%	N/A
Dove Creek FPD (Volunteer)	1/1/2017	422,823	1,261,868	839,045	33.5%	N/A
Durango Fire (Old Hire)	1/1/2016	1,139,493	2,236,959	1,097,466	50.9%	0
Durango Police (Old Hire)	1/1/2016	1,706,299	2,883,012	1,176,713	59.2%	0
Durango FPD (Volunteer)	1/1/2017	5,499,378	6,331,020	831,642	86.9%	N/A
Eads Fire (Volunteer)	1/1/2017	153,858	108,271	(45,587)	142.1%	N/A
East Grand FPD #4 (Volunteer)	1/1/2017	2,069,460	2,398,109	328,649	86.3%	N/A
Eaton FPD (Volunteer)	1/1/2017	1,362,886	1,712,368	349,482	79.6%	N/A
Eckley Fire (Volunteer)	1/1/2017	24,791	51,342	26,551	48.3%	N/A
Elbert FPD & Rescue (Volunteer)	1/1/2017	207,115	83,593	(123,522)	247.8%	N/A
Elizabeth FPD (Volunteer)	1/1/2017	1,084,285	1,824,199	739,914	59.4%	N/A
Elk Creek FPD (Volunteer)	1/1/2017	2,711,535	2,252,919	(458,616)	120.4%	N/A
Englewood Fire (Old Hire)	1/1/2016	6,522,598	9,032,530	2,509,932	72.2%	0
Englewood Police (Old Hire)	1/1/2016	4,589,625	8,841,403	4,251,778	51.9%	0
Englewood Fire (Volunteer)	1/1/2017	47,810	111,172	63,362	43%	N/A
Evans FPD (Volunteer)	1/1/2017	715,082	1,550,534	835,452	46.1%	N/A
Evergreen FPD (Volunteer)	1/1/2017	4,667,159	6,101,903	1,434,744	76.5%	N/A
Falcon FPD (Volunteer)	1/1/2017	592,730	929,374	336,644	63.8%	N/A
Federal Heights Fire (Volunteer)	1/1/2017	2,998,439	253,426	(2,745,013)	1,183.2%	N/A
Fisher's Peak FPD (Volunteer)	1/1/2017	195,695	99,114	(96,581)	197.4%	N/A
Florence FPD (Volunteer)	1/1/2017	1,829,207	1,537,484	(291,723)	119%	N/A
Foothills Fire & Rescue (Volunteer)	1/1/2017	1,619,679	1,962,678	342,999	82.5%	N/A
Fort Lewis Mesa FPD (Volunteer)	1/1/2017	379,764	485,441	105,677	78.2%	N/A
Fort Morgan Police (Old Hire)	1/1/2016	486,398	1,343,702	857,304	36.2%	0
Fort Morgan Fire (Volunteer)	1/1/2017	1,218,017	2,522,790	1,304,773	48.3%	N/A

\*Eligible at age 50 with 20 years of service

Note: Information reported is the known Volunteer Plan Normal Retirement Benefit as of December 31, 2017

Additional Information								
Calculated Annual Contribution	Amortization Period (Years)	Number of Active Members	Number of Active Members in DROP	Number of Annuitants	Number of Inactive Members	Average Age of Active Members (Years)	Average Service of Active Members (Years)	Volunteer Plan Normal Retirement Benefit (Monthly)*
\$49,359	20	0	0	36	5	0.0	0.0	\$875.50
(177,693)	20	4	0	34	6	51.0	11.0	875.50
2,286,697	19	0	0	182	0	N/A	N/A	N/A
1,833,691	19	0	0	153	0	N/A	N/A	N/A
(12,718)	14	0	0	1	0	N/A	N/A	N/A
19,697	20	27	0	27	9	40.2	8.9	680
(37,295)	20	0	0	6	1	N/A	N/A	300
(2,432)	20	12	0	1	0	50.2	16.4	10
(1,481)	20	11	0	4	0	59.7	6.2	300
6,472	3	0	0	1	0	N/A	N/A	N/A
16,355,396	17	1	2	799	0	61.0	37.9	N/A
7,987,837	20	0	1	1,051	0	N/A	N/A	N/A
(1,492)	20	22	0	7	1	43.4	5.0	299
(11,099)	20	5	0	15	1	33.4	6.8	400
87,450	20	21	0	30	3	41.3	9.0	300
126,278	15	0	0	9	0	N/A	N/A	N/A
122,870	18	0	0	8	0	N/A	N/A	N/A
200,767	20	65	0	75	8	38.5	3.2	800
(2,652)	20	22	0	5	0	30.1	9.2	100
70,485	20	33	0	31	5	37.0	5.6	600
64,459	20	35	0	21	1	28.0	3.2	900
3,800	20	14	0	11	0	42.2	14.5	26
(10,911)	20	13	0	5	1	45.8	13.3	75
73,306	20	0	0	26	1	N/A	N/A	750
(1,189)	20	46	0	57	2	37.6	5.7	400
283,390	16	0	1	39	0	N/A	N/A	N/A
445,045	17	0	1	36	0	N/A	N/A	N/A
13,796	7	0	0	6	0	N/A	N/A	450
82,282	20	2	0	24	5	43.5	8.5	675
266,777	20	92	0	69	13	40.4	5.1	600
34,336	20	0	0	26	1	N/A	N/A	500
(275,034)	20	8	0	4	4	28.8	4.0	450
(6,112)	20	21	0	0	4	45.2	9.5	100
(32,932)	20	55	0	41	0	37.6	7.0	300
63,966	20	40	0	47	6	43.4	5.1	400
16,711	20	9	0	14	2	44.8	6.8	300
102,788	14	0	0	3	0	N/A	N/A	N/A
134,344	20	30	0	40	3	36.7	9.0	425

## Affiliated Local Plans

## Summary of Actuarial Information

Employer Plan	Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability	Unfunded (Surplus) Actuarial Accrued Liability	Funded Ratio	Annual Active Covered Payroll
Fort Morgan Rural FPD (Volunteer)	1/1/2017	\$847,162	\$1,294,664	\$447,502	65.4%	N/A
Franktown FPD (Volunteer)	1/1/2017	3,177,172	843,970	(2,333,202)	376.5%	N/A
Frederick Firestone FPD (Volunteer)	1/1/2017	134,859	251,429	116,570	53.6%	N/A
Galeton FPD (Volunteer)	1/1/2017	1,347,638	906,083	(441,555)	148.7%	N/A
Genesee FPD (Volunteer)	1/1/2017	1,521,904	1,748,269	226,365	87.1%	N/A
Glacier View FPD (Volunteer)	1/1/2017	298,199	204,075	(94,124)	146.1%	N/A
Glendale Fire (Volunteer)	1/1/2017	224,050	94,736	(129,314)	236.5%	N/A
Glenwood Springs Fire (Volunteer)	1/1/2017	677,116	1,115,982	438,866	60.7%	N/A
Golden Fire (Volunteer)	1/1/2017	2,867,018	4,927,679	2,060,661	58.2%	N/A
Golden Gate FPD (Volunteer)	1/1/2017	318,386	269,351	(49,035)	118.2%	N/A
Grand FPD #1 (Volunteer)	1/1/2017	1,341,119	2,465,745	1,124,626	54.4%	N/A
Grand Junction Fire (Old Hire)	1/1/2016	9,039,230	13,038,163	3,998,933	69.3%	0
Grand Junction Police (Old Hire)	1/1/2016	4,127,239	3,560,821	(566,418)	115.9%	0
Grand Lake FPD (Volunteer)	1/1/2017	1,663,201	1,142,126	(521,075)	145.6%	N/A
Grand Valley FPD (Volunteer)	1/1/2017	3,699,225	1,855,108	(1,844,117)	199.4%	N/A
Greeley Police (Old Hire)	1/1/2016	764,527	1,105,102	340,575	69.2%	0
Greeley (Union Colony) Fire (Old Hire)	1/1/2016	9,477,428	10,407,221	929,793	91.1%	0
Green Mountain Falls-Chipita Park FPD (Volunteer)	1/1/2017	273,579	441,215	167,636	62%	N/A
Gypsum FPD (Volunteer)	1/1/2017	644,096	888,635	244,539	72.5%	N/A
Hartsel FPD (Volunteer)	1/1/2017	691,674	1,205,800	514,126	57.4%	N/A
Haxtun Fire (Volunteer)	1/1/2017	182,002	168,194	(13,808)	108.2%	N/A
Haxtun Police (Old Hire)	1/1/2016	149,681	267,820	118,139	55.9%	0
Hillrose Rural FPD (Volunteer)	1/1/2017	304,040	209,409	(94,631)	145.2%	N/A
Holyoke Fire (Volunteer)	1/1/2017	230,965	193,136	(37,829)	119.6%	N/A
Holyoke FPD (Volunteer)	1/1/2017	203,527	380,585	177,058	53.5%	N/A
Hot Sulphur Springs/Parshall FPD (Volunteer)	1/1/2017	254,911	186,847	(68,064)	136.4%	N/A
Hygiene FPD (Volunteer)	1/1/2017	1,275,437	868,155	(407,282)	146.9%	N/A
Indian Hills FPD (Volunteer)	1/1/2017	322,197	537,399	215,202	60%	N/A
Inter-Canyon FPD (Volunteer)	1/1/2017	1,573,502	2,173,542	600,040	72.4%	N/A
Jackson 105 FPD (Volunteer)	1/1/2017	293,723	444,538	150,815	66.1%	N/A
Jefferson-Como FPD (Volunteer)	1/1/2017	1,201,246	562,385	(638,861)	213.6%	N/A
Kiowa FPD (Volunteer)	1/1/2017	831,446	471,336	(360,110)	176.4%	N/A
Kremmling FPD (Volunteer)	1/1/2017	491,116	747,230	256,114	65.7%	N/A
La Junta Fire (Old Hire)	1/1/2016	830,213	1,421,660	591,447	58.4%	0
La Junta Police (Old Hire)	1/1/2016	731,163	1,155,620	424,457	63.3%	0
La Junta Fire (Volunteer)	1/1/2017	589,609	248,588	(341,021)	237.2%	N/A
La Salle Police (Old Hire)	1/1/2016	1,192,388	1,125,720	(66,668)	105.9%	80,117
La Salle FPD (Volunteer)	1/1/2017	2,891,667	3,812,893	921,226	75.8%	N/A

\*Eligible at age 50 with 20 years of service

Note: Information reported is the known Volunteer Plan Normal Retirement Benefit as of December 31, 2017

Additional Information								
Calculated Annual Contribution	Amortization Period (Years)	Number of Active Members	Number of Active Members in DROP	Number of Annuitants	Number of Inactive Members	Average Age of Active Members (Years)	Average Service of Active Members (Years)	Volunteer Plan Normal Retirement Benefit (Monthly)*
\$45,313	20	30	0	39	2	36.7	8.4	\$ 225
(237,131)	20	10	0	22	1	43.8	12.4	350
15,877	11	0	0	14	0	N/A	N/A	200
(51,730)	20	14	0	11	2	41.3	5.5	500
58,512	20	32	0	40	0	47.9	5.9	450
(680)	20	14	0	5	3	46.6	3.4	250
(12,329)	20	0	0	12	0	N/A	N/A	100
44,500	20	2	0	22	2	54.0	5.0	550
231,006	20	31	0	61	9	36.9	10.1	615
(4,917)	20	1	0	10	0	35.0	10.0	300
121,386	20	15	0	28	3	37.8	7.2	700
424,262	18	0	0	34	0	N/A	N/A	N/A
(71,061)	12	0	0	14	0	N/A	N/A	N/A
(40,016)	20	4	0	11	2	48.3	2.5	900
(169,754)	20	11	0	20	1	34.0	5.6	857.20
44,789	11	0	0	7	0	N/A	N/A	N/A
126,660	16	0	0	29	0	N/A	N/A	N/A
20,558	20	11	0	10	0	44.8	7.3	325
34,096	20	10	0	13	3	37.2	7.0	500
73,406	20	14	0	19	3	49.2	5.9	650
(178)	20	29	0	20	0	39.2	11.6	50
13,404	20	0	0	1	0	N/A	N/A	N/A
(9,957)	20	13	0	13	2	42.7	9.2	100
(2,114)	20	20	0	24	4	37.9	6.3	55
19,213	20	27	0	46	4	43.0	10.1	60
(3,636)	20	10	0	5	0	35.7	4.1	250
(30,469)	20	28	0	22	3	41.8	5.5	300
28,669	20	15	0	17	0	41.6	6.3	250
85,398	20	42	0	26	1	42.7	6.6	432
17,461	20	7	0	17	3	44.0	5.0	200
(35,193)	20	15	0	7	0	41.8	2.7	1,000
(29,834)	20	14	0	13	4	28.2	2.4	300
30,788	20	9	0	13	3	38.4	5.2	450
60,388	19	0	0	4	0	N/A	N/A	N/A
55,128	13	0	0	3	0	N/A	N/A	N/A
(29,781)	20	18	0	5	0	37.9	10.8	200
(3,701)	20	1	0	0	0	64.0	43.0	N/A
98,735	20	26	0	30	3	27.8	2.8	1,000

## Affiliated Local Plans

## Summary of Actuarial Information

Employer Plan	Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability	Unfunded (Surplus) Actuarial Accrued Liability	Funded Ratio	Annual Active Covered Payroll
Lafayette Fire (Volunteer)	1/1/2017	\$1,387,707	\$2,328,493	\$940,786	59.6%	N/A
Lake City Area FPD (Volunteer)	1/1/2017	103,732	27,641	(76,091)	375.3%	N/A
Lake Dillon FPD (Volunteer)	1/1/2017	3,982,200	4,938,265	956,065	80.6%	N/A
Lake George FPD (Volunteer)	1/1/2017	338,265	442,795	104,530	76.4%	N/A
Lakewood FPD (Old Hire)	1/1/2016	14,000,265	14,910,117	909,852	93.9%	0
Lamar Fire (Old Hire)	1/1/2016	913,625	287,112	(626,513)	318.2%	0
Lamar Fire (Volunteer)	1/1/2017	898,812	333,237	(565,575)	269.7%	N/A
Larkspur FPD (Volunteer)	1/1/2017	1,492,485	2,083,358	590,873	71.6%	N/A
Las Animas Police (Old Hire)	1/1/2016	286,882	571,675	284,793	50.2%	0
Leadville Fire (Old Hire)	1/1/2016	155,044	270,577	115,533	57.3%	0
Lefthand FPD (Volunteer)	1/1/2017	1,313,288	869,740	(443,548)	151%	N/A
Lewis-Arriola FPD (Volunteer)	1/1/2017	1,392,264	1,813,918	421,654	76.8%	N/A
Limon Area FPD (Volunteer)	1/1/2017	664,298	283,039	(381,259)	234.7%	N/A
Livermore FPD (Volunteer)	1/1/2017	196,091	190,611	(5,480)	102.9%	N/A
Log Hill Mesa FPD (Volunteer)	1/1/2017	373,689	350,654	(23,035)	106.6%	N/A
Loveland & Rural Consolidated VFD (Volunteer)	1/1/2017	2,776,027	3,993,486	1,217,459	69.5%	N/A
Loveland Fire (Old Hire)	1/1/2016	136,274	99,179	(37,095)	137.4%	0
Lower Valley FPD (Volunteer)	1/1/2017	1,732,941	1,316,707	(416,234)	131.6%	N/A
Lyons FPD (Volunteer)	1/1/2017	1,177,235	957,530	(219,705)	122.9%	N/A
Mancos FPD (Volunteer)	1/1/2017	1,028,766	291,586	(737,180)	352.8%	N/A
Manitou Springs Fire (Old Hire)	1/1/2016	343,870	503,940	160,070	68.2%	0
Manitou Springs VFD (Volunteer)	1/1/2017	358,381	589,349	230,968	60.8%	N/A
Manzanola Rural FPD (Volunteer)	1/1/2017	197,032	105,020	(92,012)	187.6%	N/A
Montrose FPD (Old Hire)	1/1/2016	118,769	303,931	185,162	39.1%	0
Montrose FPD (Volunteer)	1/1/2017	619,062	896,001	276,939	69.1%	N/A
Mountain View FPD (Old Hire)	1/1/2016	345,218	346,062	844	99.8%	0
Mountain View FPD (Volunteer)	1/1/2017	2,369,702	2,649,061	279,359	89.5%	N/A
Nederland FPD (Volunteer)	1/1/2017	713,584	723,460	9,876	98.6%	N/A
New Raymer/Stoneham FPD (Volunteer)	1/1/2017	889,731	261,688	(628,043)	340%	N/A
North Fork FPD (Volunteer)	1/1/2017	306,986	391,634	84,648	78.4%	N/A
North Routt County Fire (Volunteer)	1/1/2017	284,938	396,712	111,774	71.8%	N/A
Northeast Teller County FPD (Volunteer)	1/1/2017	605,318	718,738	113,420	84.2%	N/A
North-West FPD (Volunteer)	1/1/2017	316,134	632,186	316,052	50%	N/A
Northwest Conejos FPD (Volunteer)	1/1/2017	510,318	677,645	167,327	75.3%	N/A
Norwood FPD (Volunteer)	1/1/2017	484,175	396,202	(87,973)	122.2%	N/A
Nucla-Naturita FPD (Volunteer)	1/1/2017	687,772	513,332	(174,440)	134%	N/A
Nunn FPD (Volunteer)	1/1/2017	998,225	375,407	(622,818)	265.9%	N/A
Oak Creek FPD (Volunteer)	1/1/2017	367,168	762,736	395,568	48.1%	N/A

\*Eligible at age 50 with 20 years of service

Note: Information reported is the known Volunteer Plan Normal Retirement Benefit as of December 31, 2017



Additional Information								
Calculated Annual Contribution	Amortization Period (Years)	Number of Active Members	Number of Active Members in DROP	Number of Annuitants	Number of Inactive Members	Average Age of Active Members (Years)	Average Service of Active Members (Years)	Volunteer Plan Normal Retirement Benefit (Monthly)*
\$84,663	20	0	0	37	6	N/A	N/A	\$ 600
(4,583)	20	11	0	1	1	49.3	3.0	100
91,438	20	1	0	50	1	N/A	N/A	1,000
24,279	20	13	0	6	1	61.8	7.2	450
142,931	14	0	0	40	0	N/A	N/A	N/A
(61,783)	20	0	0	1	0	N/A	N/A	N/A
(52,208)	20	37	0	5	1	35.4	6.5	250
70,028	20	8	0	30	0	47.6	7.6	695
33,962	15	0	0	3	0	N/A	N/A	N/A
15,624	17	0	0	3	0	N/A	N/A	N/A
(20,697)	20	29	0	18	0	46.6	6.0	400
54,216	20	26	0	31	4	34.3	8.4	425
(31,932)	20	21	0	13	2	37.8	3.8	175
8,046	20	21	0	6	0	54.0	5.6	200
6,615	20	25	0	18	0	55.1	6.8	200
114,327	20	0	0	62	4	N/A	N/A	750
(14,247)	4	0	0	1	0	N/A	N/A	N/A
(32,447)	20	21	0	17	8	31.9	3.0	600
4,665	20	38	0	16	8	37.2	4.3	350
(74,509)	20	13	0	5	0	41.6	10.7	200
16,956	20	0	0	1	0	N/A	N/A	N/A
28,688	20	30	0	21	1	37.2	3.9	225
(8,488)	20	11	0	7	0	43.5	14.5	60
24,319	14	0	0	2	0	N/A	N/A	N/A
29,255	20	2	0	14	1	46.0	12.5	725
3,295	4	0	0	1	0	N/A	N/A	N/A
28,076	20	2	0	69	12	51.0	7.0	500
8,226	20	8	0	10	3	51.3	13.4	400
(105,958)	20	12	0	6	3	36.5	7.6	200
14,042	20	29	0	11	0	47.7	8.8	160
15,439	20	9	0	10	1	49.5	5.6	300
9,165	20	1	0	21	4	33.0	7.0	400
34,347	20	3	0	13	1	53.7	9.7	475
20,424	20	28	0	41	13	39.2	11.9	100
(6,488)	20	26	0	9	1	51.0	10.7	175
(15,274)	20	16	0	19	1	40.6	8.3	200
(58,396)	20	12	0	4	1	41.8	11.3	325
40,136	20	4	0	16	4	46.0	12.0	400

## Affiliated Local Plans

## Summary of Actuarial Information

Employer Plan	Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability	Unfunded (Surplus) Actuarial Accrued Liability	Funded Ratio	Annual Active Covered Payroll
Olathe FPD (Volunteer)	1/1/2017	\$659,340	\$1,119,721	\$460,381	58.9%	N/A
Olney Springs Fire (Volunteer)	1/1/2017	178,334	119,562	(58,772)	149.2%	N/A
Ordway Fire (Volunteer)	1/1/2017	223,889	144,959	(78,930)	154.4%	N/A
Ouray VFD (Volunteer)	1/1/2017	545,916	282,325	(263,591)	193.4%	N/A
Palisade VFD (Volunteer)	1/1/2017	1,008,921	462,686	(546,235)	218.1%	N/A
Palmer Lake Fire (Volunteer)	1/1/2017	28,184	97,155	68,971	29%	N/A
Parker FPD (Volunteer)	1/1/2017	334,369	641,936	307,567	52.1%	N/A
Pawnee FPD (Volunteer)	1/1/2017	192,221	40,774	(151,447)	471.4%	N/A
Petz FPD (Volunteer)	1/1/2017	320,388	57	(320,331)	562,084.2%	N/A
Peyton FPD (Volunteer)	1/1/2017	59,807	27,585	(32,222)	216.8%	N/A
Pinewood Springs VFD (Volunteer)	1/1/2017	196,841	202,076	5,235	97.4%	N/A
Plateau Valley FPD (Volunteer)	1/1/2017	1,758,393	1,555,438	(202,955)	113%	N/A
Platte Canyon FPD (Volunteer)	1/1/2017	1,085,483	1,127,094	41,611	96.3%	N/A
Platte Valley FPD (Volunteer)	1/1/2017	2,267,943	1,853,892	(414,051)	122.3%	N/A
Platteville/Gilcrest FPD (Volunteer)	1/1/2017	4,312,604	5,099,868	787,264	84.6%	N/A
Pleasant View Metro Fire District (Volunteer)	1/1/2017	1,869,235	1,337,486	(531,749)	139.8%	N/A
Poudre Canyon FPD (Volunteer)	1/1/2017	115,235	84,548	(30,687)	136.3%	N/A
Poudre Fire Authority (Volunteer)	1/1/2017	114,925	128,651	13,726	89.3%	N/A
Pueblo Fire (Old Hire)	1/1/2016	36,406,436	48,844,137	12,437,701	74.5%	0
Pueblo Police (Old Hire)	1/1/2016	51,614,509	65,398,075	13,783,566	78.9%	0
Pueblo Rural FPD (Old Hire)	1/1/2016	1,930,682	2,361,512	430,830	81.8%	0
Rangely Rural FPD (Volunteer)	1/1/2017	614,990	689,686	74,696	89.2%	N/A
Rattlesnake FPD (Volunteer)	1/1/2017	1,073,277	1,172,314	99,037	91.6%	N/A
Red Feather Lakes FPD (Volunteer)	1/1/2017	328,032	447,757	119,725	73.3%	N/A
Red White & Blue FPD (Old Hire)	1/1/2016	255,447	619,972	364,525	41.2%	0
Red White & Blue FPD (Volunteer)	1/1/2017	1,283,479	1,001,788	(281,691)	128.1%	N/A
Ridgway FPD (Volunteer)	1/1/2017	693,609	364,153	(329,456)	190.5%	N/A
Rio Blanco FPD (Volunteer)	1/1/2017	4,589,919	3,683,934	(905,985)	124.6%	N/A
Rocky Ford Police (Old Hire)	1/1/2016	234,616	450,139	215,523	52.1%	0
Rocky Ford Fire (Volunteer)	1/1/2017	96,730	25,858	(70,872)	374.1%	N/A
Rocky Mountain VFD (Volunteer)	1/1/2017	354,569	509,274	154,705	69.6%	N/A
Sable Altura FPD (Volunteer)	1/1/2017	559,527	764,720	205,193	73.2%	N/A
Salida Fire (Old Hire)	1/1/2016	129,627	236,171	106,544	54.9%	0
Salida Police (Old Hire)	1/1/2016	571,721	1,300,563	728,842	44%	0
Sheridan Fire (Volunteer)	1/1/2017	341,816	858,474	516,658	39.8%	N/A
Silverton San Juan FRA (Volunteer)	1/1/2017	301,382	297,640	(3,742)	101.3%	N/A
South Adams County FPD (Old Hire)	1/1/2016	355,702	807,034	451,332	44.1%	0
South Adams County FPD (Volunteer)	1/1/2017	6,419,100	7,701,927	1,282,827	83.3%	N/A
South Arkansas FPD (Volunteer)	1/1/2017	\$152,038	\$159,073	\$7,035	95.6%	N/A

\*Eligible at age 50 with 20 years of service

Note: Information reported is the known Volunteer Plan Normal Retirement Benefit as of December 31, 2017

Calculated Annual Contribution	Additional Information							
	Amortization Period (Years)	Number of Active Members	Number of Active Members in DROP	Number of Annuitants	Number of Inactive Members	Average Age of Active Members (Years)	Average Service of Active Members (Years)	Volunteer Plan Normal Retirement Benefit (Monthly)*
\$59,025	20	19	0	20	2	34.9	5.2	\$ 500
(3,627)	20	6	0	5	2	48.6	11.0	150
(5,657)	20	12	0	13	0	42.3	10.6	75
(26,731)	20	25	0	24	1	45.5	9.5	90
(35,847)	20	42	0	14	3	30.1	3.1	300
7,691	20	19	0	10	0	29.9	2.6	100
30,619	20	0	0	20	0	N/A	N/A	420
(14,631)	20	9	0	2	0	44.9	14.4	50
(33,395)	20	19	0	0	0	37.4	7.7	0
(1,851)	20	11	0	1	1	34.9	3.7	100
8,188	20	17	0	3	0	57.1	7.6	225
5,136	20	19	0	12	0	45.9	11.3	700
8,230	20	12	0	20	0	46.2	10.3	375
(17,661)	20	19	0	22	7	30.8	4.2	750
80,724	20	3	0	46	8	40.5	4.5	1,030
61,842	20	50	0	3	3	28.4	3.0	1,400
4,460	20	42	0	0	1	49.6	4.4	100
2,305	20	1	0	5	0	63.0	30.0	300
1,565,925	13	0	1	132	0	N/A	N/A	N/A
1,571,421	16	0	0	117	0	N/A	N/A	N/A
51,207	16	0	0	8	0	N/A	N/A	N/A
23,465	20	26	0	11	0	35.0	6.9	350
35,307	20	36	0	23	2	37.0	6.4	375
18,260	20	6	0	11	1	62.7	3.7	400
48,265	12	0	0	2	0	N/A	N/A	N/A
(26,431)	20	0	0	31	3	N/A	N/A	400
(26,316)	20	18	0	11	0	40.9	4.9	300
(81,172)	20	27	0	35	1	41.0	7.1	900
29,260	12	0	0	2	0	N/A	N/A	N/A
(6,382)	20	24	0	5	1	38.6	7.4	25
18,150	20	1	0	22	2	66.0	27.0	200
57,666	20	32	0	9	5	34.4	3.7	550
14,074	15	0	0	3	0	N/A	N/A	N/A
75,808	18	0	0	6	0	N/A	N/A	N/A
66,102	12	0	0	18	1	N/A	N/A	579
2,373	20	25	0	11	6	52.4	12.6	100
48,096	20	0	0	2	0	N/A	N/A	N/A
125,749	20	8	0	64	9	37.6	9.0	1,000
1,774	20	0	0	6	0	N/A	N/A	225

## Affiliated Local Plans

## Summary of Actuarial Information

Employer Plan	Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability	Unfunded (Surplus) Actuarial Liability	Funded Ratio	Annual Active Covered Payroll
South Conejos FPD (Volunteer)	1/1/2017	\$260,843	\$241,102	\$(19,741)	108.2%	N/A
South Metro Fire Rescue (Volunteer)	1/1/2017	321,553	328,772	7,219	97.8%	N/A
Southwest Washington County FPD (Volunteer)	1/1/2017	160,842	151,764	(9,078)	106%	N/A
Springfield Police (Old Hire)	1/1/2016	460,742	359,315	(101,427)	128.2%	0
Springfield Fire (Volunteer)	1/1/2017	160,261	53,389	(106,872)	300.2%	N/A
Steamboat Springs VFD (Volunteer)	1/1/2017	1,324,825	1,549,419	224,594	85.5%	N/A
Sterling Fire (Old Hire)	1/1/2016	730,824	1,355,918	625,094	53.9%	0
Sterling Police (Old Hire)	1/1/2016	308,244	136,821	(171,423)	225.3%	0
Sterling Fire (Volunteer)	1/1/2017	414,683	492,963	78,280	84.1%	N/A
Stonewall FPD (Volunteer)	1/1/2017	976,557	764,225	(212,332)	127.8%	N/A
Stratton FPD (Volunteer)	1/1/2017	157,981	61,154	(96,827)	258.3%	N/A
Sugar City Fire (Volunteer)	1/1/2017	103,934	105,117	1,183	98.9%	N/A
Sugarloaf FPD (Volunteer)	1/1/2017	409,266	651,788	242,522	62.8%	N/A
Telluride FPD (Volunteer)	1/1/2017	2,015,287	2,940,892	925,605	68.5%	N/A
Thornton Fire (Old Hire)	1/1/2016	4,890,245	7,470,746	2,580,501	65.5%	0
Timberline FPD (Volunteer)	1/1/2017	1,734,031	1,937,293	203,262	89.5%	N/A
Trinidad Fire (Old Hire)	1/1/2016	635,872	1,249,122	613,250	50.9%	0
Trinidad Police (Old Hire)	1/1/2016	53,056	122,445	69,389	43.3%	0
Walsh VFD (Volunteer)	1/1/2017	89,355	51,007	(38,348)	175.2%	N/A
Wellington FPD (Volunteer)	1/1/2017	1,578,303	2,313,638	735,335	68.2%	N/A
West Cheyenne FPD (Volunteer)	1/1/2017	164,690	126,804	(37,886)	129.9%	N/A
West Douglas County FPD (Volunteer)	1/1/2017	555,105	888,709	333,604	62.5%	N/A
West Metro FPD (Volunteer)	1/1/2017	767,719	666,230	(101,489)	115.2%	N/A
West Routt FPD (Volunteer)	1/1/2017	2,773,891	2,200,353	(573,538)	126.1%	N/A
Westminster VFD (Volunteer)	1/1/2017	2,466,939	1,594,849	(872,090)	154.7%	N/A
Wet Mountain FPD (Volunteer)	1/1/2017	1,906,984	1,461,880	(445,104)	130.4%	N/A
Wiggins Rural FPD (Volunteer)	1/1/2017	1,153,366	940,655	(212,711)	122.6%	N/A
Wiley Rural FPD (Volunteer)	1/1/2017	139,804	47,929	(91,875)	291.7%	N/A
Windsor Severance FPD (Volunteer)	1/1/2017	2,815,855	3,346,267	530,412	84.1%	N/A
Yampa FPD (Volunteer)	1/1/2017	441,596	646,259	204,663	68.3%	N/A
Yuma Fire (Volunteer)	1/1/2017	575,582	256,111	(319,471)	224.7%	N/A

\*Eligible at age 50 with 20 years of service

Note: Information reported is the known Volunteer Plan Normal Retirement Benefit as of December 31, 2017

Additional Information								
Calculated Annual Contribution	Amortization Period (Years)	Number of Active Members	Number of Active Members in DROP	Number of Annuitants	Number of Inactive Members	Average Age of Active Members (Years)	Average Service of Active Members (Years)	Volunteer Plan Normal Retirement Benefit (Monthly)*
\$(1,787)	20	19	0	21	0	37.6	10.3	\$ 100
2,070	20	0	0	12	1	N/A	N/A	400
1,660	20	15	0	6	1	42.1	9.2	100
(9,675)	14	0	0	1	0	N/A	N/A	N/A
(9,256)	20	13	0	3	0	39.2	7.3	95
23,084	20	1	0	24	3	47.0	8.0	650
64,508	19	0	0	4	0	N/A	N/A	N/A
(27,941)	9	0	0	1	0	N/A	N/A	N/A
10,738	20	9	0	16	2	25.7	3.2	300
13,916	20	25	0	11	1	51.3	5.5	550
(8,896)	20	9	0	6	1	41.6	11.2	50
2,139	20	11	0	4	0	50.6	15.1	100
34,507	20	23	0	23	0	47.5	8.7	220
112,777	20	58	0	45	1	44.4	8.6	400
269,653	18	0	1	19	0	N/A	N/A	N/A
32,541	20	10	0	54	3	53.2	9.2	340
72,529	14	0	0	6	0	N/A	N/A	N/A
13,070	9	0	0	5	0	N/A	N/A	N/A
(1,757)	20	17	0	0	0	46.4	8.7	100
93,272	20	9	0	16	9	30.3	5.5	1,000
(1,881)	20	21	0	4	0	37.8	11.1	100
46,916	20	31	0	39	1	43.5	6.7	200
(12,697)	20	0	0	29	2	N/A	N/A	250
(45,073)	20	14	0	24	1	32.9	3.3	750
(86,067)	20	0	0	27	0	N/A	N/A	700
(42,699)	20	13	0	24	5	37.2	8.5	400
(25,119)	20	22	0	14	1	31.4	6.9	300
(7,646)	20	11	0	2	0	37.1	5.9	100
53,941	20	3	0	37	10	40.7	6.3	775
27,962	20	13	0	12	0	38.4	10.5	400
(31,912)	20	24	0	24	0	42.4	12.5	75

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The objectives of the Statistical Section are to provide additional historical perspective, context, and relevant details to assist readers in using information in the financial statements, notes to the financial statements, and required supplementary information in order to understand and assess the overall financial condition of the Fire & Police Members' Benefit Investment Fund and the Fire & Police Members' Self-Directed Investment Fund. In support of these objectives, FPPA reports information in this section in compliance with Governmental Accounting Standards Board (GASB) Statement 44, Economic Condition Reporting: The Statistical Section. This statement establishes standardized reporting requirements relative to the supplementary information provided in this section.

### FINANCIAL TREND INFORMATION

- Pages 179 - 180      Detailed revenue and expense categories for the past 10 years.
- **Revenues by Source – All Plans**
  - **Revenue Allocation – All Plans**
  - **Expenses by Type – All Plans**
- Page 181 - 196      Financial trend information about the growth of FPPA's assets within various reporting entities.
- **Changes in Fiduciary Net Position**  
This schedule provides detailed information about the trends of key sources of additions and deductions to the Plans' fiduciary net position, which assist in providing a context framing how the Plans' financial position have changed over time.

### OPERATING INFORMATION

- Pages 197 - 201      Payment information according to Year Retired within the ranges of Years of Service Credit.
- **Schedule of Average Benefit Payments for New Benefit Recipients**
- Pages 202 - 205      **Principal Participating Employers by Plan**
- Pages 206 - 212      **Employers**  
Those employers affiliated for coverage under each applicable plan.
- Pages 213 - 218      **Benefit and Refund Deductions from Net Position by Type.**

### DEMOGRAPHIC AND ECONOMIC INFORMATION

- Pages 219 - 225      Demographic information is designed to provide additional insight regarding FPPA's active and retired membership. Economic information provides an overall summary of the sources of change within the Total Pension Fund Fiduciary Net Position managed by FPPA. All non-accounting data is derived from FPPA internal sources. The demographic and economic information presented includes:
- **Active Members by Plan Type**
  - **Retired Members by Plan Type**
  - **Defined Benefit System Membership by Status**
  - **Statewide Death & Disability Plan Membership by Status**
  - **Active and Retired Members by Occupation**
  - **Growth of Total Pension Fund Net Position**
  - **Schedule of Retired Members by Type of Benefit.**

While the material in this section is intended to supplement the independent auditor's report contained elsewhere, none of the information within the Statistical Section has been reviewed or certified as to its accuracy by FPPA's auditors.

**■ Revenues by Source – All Plans**

For Year Ended	Investment Earnings	State Funding*	Employers	Employees	Contributions for Service Reinstatements	Affiliations	Total
2017	\$692,898,213	\$2,957,415	\$111,386,252	\$234,115,361		\$101,682,445	\$1,143,039,686
2016	246,981,141	2,942,988	111,676,139	113,054,531	\$59,172		474,713,971
2015	72,378,714	2,916,894	123,912,110	122,762,059		(424,968)	321,544,809
2014	288,997,131	2,929,781	116,898,369	97,049,216	17,816		505,892,313
2013	570,927,282	145,255,639	114,808,487	107,025,634	32,919	10,350,550	948,400,511
2012	393,619,896	8,303,953	104,833,565	104,175,480		(1,528,280)	609,404,614
2011	24,699,751	3,102,866	101,823,398	115,127,440		85,939,479	330,692,934
2010	402,703,434	3,078,432	89,914,037	79,691,769		211,874	575,599,546
2009	515,320,880	2,908,504	79,071,860	72,855,332		26,112,745	696,269,321
2008	(1,072,758,209)	37,592,294	88,810,611	60,950,939		1,051,718	(884,352,647)

\* Prior to 2014, State Funding was provided to both Local Affiliated Old Hire and Volunteer Firefighter plans. The Local Affiliated Old Hire plans had state funding suspended from 2009-2011. The State completed their obligation to fund Local Affiliated Old Hire plans as of 5/31/2013. Beginning in 2014 and going forward, the State Funding amounts are representative for Affiliated Volunteer Firefighter plans only.

**■ Revenue Allocation — All Plans**

For Year Ended	Additions to Fund Balance	Benefit Payments	Administrative Expenses	Refunds & Withdrawals	Pension Expense & Change in Net Pension Liability**	Total
2017	\$707,143,465	\$284,981,165	\$7,587,441	\$135,616,702	\$7,710,913	\$1,143,039,686
2016	137,769,209	274,598,388	7,858,514	52,264,655	2,223,205	474,713,971
2015	(17,120,086)	260,160,933	6,978,847	70,279,168	1,245,947	321,544,809
2014	199,350,710	250,181,029	7,872,867	48,487,707		505,892,313
2013	646,654,542	242,611,084	7,218,541	51,916,344		948,400,511
2012	320,639,551	230,312,590	8,307,066	50,145,407		609,404,614
2011	26,307,100	221,287,914	7,386,801	75,711,119		330,692,934
2010	314,956,021	217,548,445	6,501,353	36,593,727		575,599,546
2009	461,550,570	196,224,840	5,829,521	32,664,390		696,269,321
2008	(1,104,966,569)	185,187,189	5,215,816	30,210,917		(884,352,647)

\*\* Pension Expense & Change in Net Pension Liability is not available prior to 2015 with the implementation of GASB Statement No. 68 in 2015.



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**■ Expenses by Type — All Plans**


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For Year Ended	Benefit Payments	Refunds	Administrative Expenses	Pension Expense & Change in Net Pension Liability*	Capital Expenses	Total
2017	\$284,981,165	\$135,616,702	\$7,587,441	\$7,710,913	\$689,303	\$436,585,524
2016	274,598,388	52,264,655	7,858,514	2,223,205	596,117	337,540,879
2015	260,160,933	70,279,168	6,978,847	1,245,947	339,823	339,004,718
2014	250,181,029	48,487,707	7,872,867		470,437	307,012,040
2013	242,611,084	51,916,344	7,218,541		126,977	301,872,946
2012	230,312,590	50,145,407	8,307,066		375,571	289,140,634
2011	221,287,914	75,711,119	7,386,801		391,016	304,776,850
2010	217,548,445	36,593,727	6,501,353		202,049	260,845,574
2009	196,224,840	32,664,390	5,829,521		6,700	234,725,451
2008	185,187,189	30,210,917	5,215,816		60,051	220,673,973

\* Pension Expense & Change in Net Pension Liability is not available prior to 2015 with the implementation of GASB Statement No. 68 in 2015.

**Changes in Fiduciary Net Position**

**Affiliated Local Plans**

<b>Additions</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Employer Contributions	\$49,272,548	\$39,169,647	\$56,296,280	\$52,530,357
Member Contributions	158,659	156,691	169,253	237,228
Affiliations (Withdrawals)	(582,682)	0	(424,968)	0
State Contributions	2,957,415	2,942,988	2,916,894	2,929,781
Investment Income (Loss)	214,570,378	80,195,810	29,503,367	109,355,637
<b>Total Additions</b>	<b>\$266,376,318</b>	<b>\$122,465,136</b>	<b>\$88,460,826</b>	<b>\$165,053,003</b>
<b>Deductions</b>				
Benefit Payments:				
Retirees/Survivors	\$168,478,600	\$168,257,048	\$165,621,180	\$164,721,406
Death/Disability				
Refunds of Contributions	140,874	918,003	201,899	521,475
Administrative Costs	2,033,565	2,561,689	2,523,894	2,680,031
<b>Total Deductions</b>	<b>\$170,653,039</b>	<b>\$171,736,740</b>	<b>\$168,346,973</b>	<b>\$167,922,912</b>
<b>Changes in Fiduciary Net Position</b>	<b>\$95,723,279</b>	<b>\$(49,271,604)</b>	<b>\$(79,886,147)</b>	<b>\$(2,869,909)</b>
Changes in Net Pension Liability	391,745	322,903	299,237	
Pension Expense	(2,194,466)	(500,661)	(464,315)	
Fiduciary Net Position at Beginning of Year	1,511,533,970	1,560,983,332	1,645,665,903	1,648,535,812
Effect of Change in Accounting Principle			(4,631,346)	
<b>Fiduciary Net Position at End of Year</b>	<b>\$1,605,454,528</b>	<b>\$1,511,533,970</b>	<b>\$1,560,983,332</b>	<b>\$1,645,665,903</b>

**Statewide Death & Disability Plan**

<b>Additions</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Employer Contributions				
Member Contributions	\$20,698,646	\$18,377,088	\$16,698,025	\$15,521,154
Affiliations (Withdrawals)				
State Contributions				
Investment Income (Loss)	52,449,216	17,960,708	5,609,096	22,363,360
<b>Total Additions</b>	<b>\$73,147,862</b>	<b>\$36,337,796</b>	<b>\$22,307,121</b>	<b>\$37,884,514</b>
<b>Deductions</b>				
Benefit Payments:				
Retirees/Survivors				
Death/Disability	\$28,157,074	\$26,128,642	\$24,096,515	\$22,707,843
Refunds of Contributions		59,172	0	12,647
Administrative Costs	1,881,828	761,530	706,905	722,214
<b>Total Deductions</b>	<b>\$30,038,902</b>	<b>\$26,949,344</b>	<b>\$24,803,420</b>	<b>\$23,442,704</b>
<b>Changes in Fiduciary Net Position</b>	<b>\$43,108,960</b>	<b>\$9,388,452</b>	<b>\$(2,496,299)</b>	<b>\$14,441,810</b>
Changes in Net Pension Liability	211,564	76,837	67,190	
Pension Expense	(725,611)	(183,499)	(104,257)	
Fiduciary Net Position at Beginning of Year	359,933,855	350,652,065	354,225,348	339,783,538
Effect of Change in Accounting Principle			(1,039,917)	
<b>Fiduciary Net Position at End of Year</b>	<b>\$402,528,768</b>	<b>\$359,933,855</b>	<b>\$350,652,065</b>	<b>\$354,225,348</b>

## Changes in Fiduciary Net Position

2013	2012	2011	2010	2009	2008
\$52,371,362	\$46,585,541	\$46,108,486	\$37,239,905	\$30,813,175	\$46,007,841
176,577	140,504	169,643	276,165	366,911	640,234
(1,537,861)	(17,186)	2,512,024	(678,910)		21,194
145,255,639	8,303,953	3,102,866	3,078,432	2,908,504	37,592,294
218,204,672	154,887,279	11,809,291	178,431,326	240,361,700	(552,351,083)
<b>\$414,470,389</b>	<b>\$209,900,091</b>	<b>\$63,702,310</b>	<b>\$218,346,918</b>	<b>\$274,450,290</b>	<b>\$(468,089,520)</b>
\$165,121,187	\$165,552,566	\$162,511,376	\$164,220,145	\$157,644,750	\$152,270,531
848,221	315,017	584,749	1,823,003	5,045,932	2,958,380
3,160,989	3,200,335	3,002,396	2,927,262	2,797,233	2,693,660
<b>\$169,130,397</b>	<b>\$169,067,918</b>	<b>\$166,098,521</b>	<b>\$168,970,410</b>	<b>\$165,487,915</b>	<b>\$157,922,571</b>
<b>\$245,339,992</b>	<b>\$40,832,173</b>	<b>\$(102,396,211)</b>	<b>\$49,376,508</b>	<b>\$108,962,375</b>	<b>\$(626,012,091)</b>
1,403,195,820	1,362,363,647	1,464,759,858	1,415,383,350	1,306,420,975	1,932,433,066
<b>\$1,648,535,812</b>	<b>\$1,403,195,820</b>	<b>\$1,362,363,647</b>	<b>\$1,464,759,858</b>	<b>\$1,415,383,350</b>	<b>\$1,306,420,975</b>
2013	2012	2011	2010	2009	2008
\$14,561,110	\$13,616,969	\$12,956,389	\$12,309,050	\$11,885,404	\$10,918,637
45,003,288	32,323,103	2,035,621	33,679,604	42,062,468	(89,411,107)
<b>\$59,564,398</b>	<b>\$45,940,072</b>	<b>\$14,992,010</b>	<b>\$45,988,654</b>	<b>\$53,947,872</b>	<b>\$(78,492,470)</b>
\$21,018,988	\$19,482,152	\$18,217,570	\$17,376,644	\$15,995,412	\$14,886,707
32,919		47,192	58,440	14,242	
827,325	673,194	592,716	544,161	485,984	435,765
<b>\$21,879,232</b>	<b>\$20,155,346</b>	<b>\$18,857,478</b>	<b>\$17,979,245</b>	<b>\$16,495,638</b>	<b>\$15,322,472</b>
<b>\$37,685,166</b>	<b>\$25,784,726</b>	<b>\$(3,865,468)</b>	<b>\$28,009,409</b>	<b>\$37,452,234</b>	<b>\$(93,814,942)</b>
302,098,372	276,313,646	280,179,114	252,169,705	214,717,471	308,532,413
<b>\$339,783,538</b>	<b>\$302,098,372</b>	<b>\$276,313,646</b>	<b>\$280,179,114</b>	<b>\$252,169,705</b>	<b>\$214,717,471</b>

Changes in Fiduciary Net Position

**Defined Benefit System**

<b>Additions</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Employer Contributions				
Member Contributions				
Contributions for Service Reinstatement				
Affiliations (Withdrawals)				
State Contributions				
Investment Income (Loss)				
<b>Total Additions</b>				
<b>Deductions</b>				
Benefit Payments:				
Retirees/Survivors				
Death/Disability				
Refunds of Contributions				
Administrative Costs				
<b>Total Deductions</b>				

**Changes in Fiduciary Net Position**

*Fiduciary Net Position at Beginning of Year*

*Fiduciary Net Position at End of Year*

Note: With the implementation of GASB Statement No. 67 in 2014, FPPA is now presenting the individual plan information of those plans that comprise the Defined Benefit System in the Financial Section; therefore, data is presented for the Defined Benefit System prior to 2014.

## Changes in Fiduciary Net Position

<b>2013</b>	<b>2012</b>	<b>2011</b>	<b>2010</b>	<b>2009</b>	<b>2008</b>
\$46,987,285	\$43,554,063	\$41,676,619	\$40,075,299	\$36,109,248	\$31,867,543
63,990,476	65,719,525	76,527,790	41,303,655	46,415,422	33,780,203
32,919					
265,190,786	177,692,483	9,332,179	165,582,369	193,591,955	(382,348,087)
<b>\$376,201,466</b>	<b>\$286,966,071</b>	<b>\$127,536,588</b>	<b>\$246,961,323</b>	<b>\$276,116,625</b>	<b>\$(316,700,341)</b>
\$56,470,909	\$45,277,872	\$40,558,968	\$35,951,656	\$22,584,678	\$18,029,951
3,130,258	1,988,637	2,400,352	1,883,717	2,488,556	4,076,623
3,988,951	3,734,627	3,043,671	2,644,986	2,219,881	1,854,959
<b>\$63,590,118</b>	<b>\$51,001,136</b>	<b>\$46,002,991</b>	<b>\$40,480,359</b>	<b>\$27,293,115</b>	<b>\$23,961,533</b>
<b>\$312,611,348</b>	<b>\$235,964,935</b>	<b>\$81,533,597</b>	<b>\$206,480,964</b>	<b>\$248,823,510</b>	<b>\$(340,661,874)</b>
1,708,556,652	1,472,591,717	1,391,058,120	1,184,577,156	935,753,646	1,276,415,520
<b>\$2,021,168,000</b>	<b>\$1,708,556,652</b>	<b>\$1,472,591,717</b>	<b>\$1,391,058,120</b>	<b>\$1,184,577,156</b>	<b>\$935,753,646</b>

## Changes in Fiduciary Net Position

## Defined Benefit System | Statewide Defined Benefit Plan

<b>Additions</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Employer Contributions	\$44,644,663	\$41,240,159	\$38,079,177	\$35,919,292
Member Contributions	156,811,895	59,793,315	70,733,575	47,475,429.05
Contributions for Service Reinstatement		20,412		10,815
Affiliations (Withdrawals)				
State Contributions				
Investment Income (Loss)	298,390,499	101,487,849	30,600,923	111,783,092
<b>Total Additions</b>	<b>\$499,847,057</b>	<b>\$202,541,735</b>	<b>\$139,413,675</b>	<b>\$195,188,628.05</b>
<b>Deductions</b>				
Benefit Payments:				
Retirees/Survivors	\$65,977,013	\$60,019,888	\$53,129,403	\$47,655,798.11
Death/Disability				
Refunds of Contributions	2,187,599	1,813,180	1,763,962	1,848,697.58
Administrative Costs	3,135,932	3,383,944	3,022,771	2,981,129
<b>Total Deductions</b>	<b>\$71,300,544</b>	<b>\$65,217,012</b>	<b>\$57,916,136</b>	<b>\$52,485,624.69</b>
<b>Changes in Fiduciary Net Position</b>	<b>\$428,546,513</b>	<b>\$137,324,723</b>	<b>\$81,497,539</b>	<b>\$142,703,003.36</b>
Changes in Net Pension Liability	387,829	422,911	353,403	
Pension Expense	(4,022,517)	(1,273,038)	(548,363)	
Fiduciary Net Position at Beginning of Year	1,980,535,208	1,844,060,612	1,768,227,718	1,625,524,715
Effect of Change in Accounting Principle			(5,469,685)	
<b>Fiduciary Net Position at End of Year</b>	<b>\$2,405,447,033</b>	<b>\$1,980,535,208</b>	<b>\$1,844,060,612</b>	<b>\$1,768,227,718.36</b>

Note: Data is presented for this individual plan beginning in 2014 to remain consistent with the Financial Section and the impact of the implementation of GASB Statement No. 67. Plan data is presented for prior years as part of the Defined Benefit System.



## Changes in Fiduciary Net Position

## Defined Benefit System | Statewide Hybrid Plan – Defined Benefit Component

<b>Additions</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Employer Contributions	\$1,320,687	\$1,296,013	\$1,298,827	\$1,235,014
Member Contributions	8,967,398	4,117,438	4,323,776	1,764,160
Contributions for Service Reinstatement				
Affiliations (Withdrawals)				
State Contributions				
Investment Income (Loss)	8,122,829	2,656,991	673,519	2,565,885
<b>Total Additions</b>	<b>\$18,410,914</b>	<b>\$8,070,442</b>	<b>\$6,296,122</b>	<b>\$5,565,059</b>
<b>Deductions</b>				
Benefit Payments:				
Retirees/Survivors	\$1,493,664	\$1,191,766	\$953,099	\$752,330
Death/Disability				
Refunds of Contributions	27,870	17,151	18,365	35,373
Administrative Costs	77,914	87,869	73,679	67,974
<b>Total Deductions</b>	<b>\$1,599,448</b>	<b>\$1,296,786</b>	<b>\$1,045,143</b>	<b>\$855,677</b>
<b>Changes in Fiduciary Net Position</b>	<b>\$16,811,466</b>	<b>\$6,773,656</b>	<b>\$5,250,979</b>	<b>\$4,709,382</b>
Changes in Net Pension Liability	10,138	11,307	8,852	
Pension Expense	(129,795)	(43,608)	(13,735)	
Fiduciary Net Position at Beginning of Year	52,938,641	46,197,286	41,088,190	36,378,808
Effect of Change in Accounting Principle			(137,000)	
<b>Fiduciary Net Position at End of Year</b>	<b>\$69,630,450</b>	<b>\$52,938,641</b>	<b>\$46,197,286</b>	<b>\$41,088,190</b>

Note: Data is presented for this individual plan beginning in 2014 to remain consistent with the Financial Section and the impact of the implementation of GASB Statement No. 67. Plan data is presented for prior years as part of the Defined Benefit System.





## Changes in Fiduciary Net Position

## Defined Benefit System | Colorado Springs New Hire Pension Plan – Fire Component

<b>Additions</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Employer Contributions	\$4,227,414	\$3,700,396	\$3,437,596	\$3,341,129
Member Contributions	1,082,336	1,082,855	1,202,513	1,278,915
Contributions for Service Reinstatement		38,760		7,001
Affiliations (Withdrawals)				
State Contributions				
Investment Income (Loss)	18,451,858	6,576,572	2,213,385	7,931,299
<b>Total Additions</b>	<b>\$23,761,608</b>	<b>\$11,398,583</b>	<b>\$6,853,494</b>	<b>\$12,558,344</b>
<b>Deductions</b>				
Benefit Payments:				
Retirees/Survivors	\$7,989,856	\$7,395,735	\$6,234,574	\$5,406,076
Death/Disability				
Refunds of Contributions	159,851	167,056		
Administrative Costs	58,115	209,360	194,113	195,698
<b>Total Deductions</b>	<b>\$8,207,822</b>	<b>\$7,772,151</b>	<b>\$6,428,687</b>	<b>\$5,601,774</b>
<b>Changes in Fiduciary Net Position</b>	<b>\$15,553,786</b>	<b>\$3,626,432</b>	<b>\$424,807</b>	<b>\$6,956,570</b>
Changes in Net Pension Liability	11,309	26,969	23,557	
Pension Expense	(193,563)	(64,820)	(36,553)	
Fiduciary Net Position at Beginning of Year	126,454,198	122,865,617	122,818,402	115,861,832
Effect of Change in Accounting Principle			(364,596)	
<b>Fiduciary Net Position at End of Year</b>	<b>\$141,825,730</b>	<b>\$126,454,198</b>	<b>\$122,865,617</b>	<b>\$122,818,402</b>

Note: Data is presented for this individual plan beginning in 2014 to remain consistent with the Financial Section and the impact of the implementation of GASB Statement No. 67. Plan data is presented for prior years as part of the Defined Benefit System.



## Changes in Fiduciary Net Position

## Defined Benefit System | Colorado Springs New Hire Pension Plan – Police Component

<b>Additions</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Employer Contributions	\$8,464,061	\$7,900,050	\$7,916,242	\$7,728,841
Member Contributions	2,311,298	2,707,964	2,493,427	2,830,620
Contributions for Service Reinstatement				
Affiliations (Withdrawals)				
State Contributions				
Investment Income (Loss)	40,779,138	14,390,904	4,700,518	16,759,706
<b>Total Additions</b>	<b>\$51,554,497</b>	<b>\$24,998,918</b>	<b>\$15,110,187</b>	<b>\$27,319,167</b>
<b>Deductions</b>				
Benefit Payments:				
Retirees/Survivors	\$12,877,649	\$11,592,619	\$10,115,964	\$8,928,010
Death/Disability				
Refunds of Contributions	18,007	83,530	99,734	443,707.61
Administrative Costs	122,594	452,011	412,521	409,357
<b>Total Deductions</b>	<b>\$13,018,250</b>	<b>\$12,128,160</b>	<b>\$10,628,219</b>	<b>\$9,781,074.61</b>
<b>Changes in Fiduciary Net Position</b>	<b>\$38,536,247</b>	<b>\$12,870,758</b>	<b>\$4,481,968</b>	<b>\$17,538,092.39</b>
Changes in Net Pension Liability	25,082	59,129	50,691	
Pension Expense	(443,641)	(157,454)	(78,656)	
Fiduciary Net Position at Beginning of Year	277,162,689	264,390,256	260,720,815	243,182,723
Effect of Change in Accounting Principle			(784,562)	
<b>Fiduciary Net Position at End of Year</b>	<b>\$315,280,377</b>	<b>\$277,162,689</b>	<b>\$264,390,256</b>	<b>\$260,720,815.39</b>

Note: Data is presented for this individual plan beginning in 2014 to remain consistent with the Financial Section and the impact of the implementation of GASB Statement No. 67. Plan data is presented for prior years as part of the Defined Benefit System.



## Changes in Fiduciary Net Position

## FPPA Staff Healthcare Subsidy Plan

<b>Additions</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Employer Contributions	\$8,261	\$8,478	\$5,818	\$6,240
Member Contributions				
Affiliations (Withdrawals)				
State Contributions				
Investment Income (Loss)	34,391	12,207	4,159	14,757
<b>Total Additions</b>	<b>\$42,652</b>	<b>\$20,685</b>	<b>\$9,977</b>	<b>\$20,997</b>
<b>Deductions</b>				
Benefit Payments:				
Retirees/Survivors	\$7,309	\$12,690	\$10,198	\$9,566
Death/Disability				
Refunds of Contributions				
Administrative Costs	4,510	381	354	359
<b>Total Deductions</b>	<b>\$11,819</b>	<b>\$13,071</b>	<b>\$10,552</b>	<b>\$9,925</b>
<b>Changes in Fiduciary Net Position</b>	<b>\$30,833</b>	<b>\$7,614</b>	<b>\$(575)</b>	<b>\$11,072</b>
Changes in Net Pension Liability	969	51	44	
Pension Expense	(1,320)	(125)	(68)	
Fiduciary Net Position at Beginning of Year	237,253	229,713	230,994	219,922
Effect of Change in Accounting Principle			(682)	
<b>Fiduciary Net Position at End of Year</b>	<b>\$267,735</b>	<b>\$237,253</b>	<b>\$229,713</b>	<b>\$230,994</b>

## Fire &amp; Police Members' Statewide Money Purchase Plan

<b>Additions</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Employer Contributions	\$438,454	\$424,263	\$405,178	\$385,503
Member Contributions	425,436	406,716	386,856	367,925
Affiliations (Withdrawals)				
State Contributions				
Investment Income (Loss)	1,789,042	732,303	(20,666)	412,534
<b>Total Additions</b>	<b>\$2,652,932</b>	<b>\$1,563,282</b>	<b>\$771,368</b>	<b>\$1,165,962</b>
<b>Deductions</b>				
Benefit Payments:				
Retirees/Survivors				
Death/Disability				
Refunds of Contributions	\$304,189	\$247,528	\$245,503	\$300,406
Administrative Costs	34,013	45,494	5,745	(2,477)
<b>Total Deductions</b>	<b>\$338,202</b>	<b>\$293,022</b>	<b>\$251,248</b>	<b>\$297,929</b>
<b>Changes in Fiduciary Net Position</b>	<b>\$2,314,730</b>	<b>\$1,270,260</b>	<b>\$520,120</b>	<b>\$868,033</b>
Fiduciary Net Position at Beginning of Year	10,144,993	8,874,733	8,354,613	7,486,580
<b>Fiduciary Net Position at End of Year</b>	<b>\$12,459,723</b>	<b>\$10,144,993</b>	<b>\$8,874,733</b>	<b>\$8,354,613</b>

## Changes in Fiduciary Net Position

2013	2012	2011	2010	2009	2008
\$8,056	\$13,266	\$14,823	\$14,316	\$13,632	\$12,425
28,411	19,028	962	17,556	19,670	(38,716)
<b>\$36,467</b>	<b>\$32,294</b>	<b>\$15,785</b>	<b>\$31,872</b>	<b>\$33,302</b>	<b>\$(26,291)</b>
\$8,264	\$6,500	\$5,958	\$7,041	\$6,349	\$1,348
<b>\$8,264</b>	<b>\$6,500</b>	<b>\$5,958</b>	<b>\$7,041</b>	<b>\$6,349</b>	<b>\$1,348</b>
<b>\$28,203</b>	<b>\$25,794</b>	<b>\$9,827</b>	<b>\$24,831</b>	<b>\$26,953</b>	<b>\$(27,639)</b>
191,719	165,925	156,098	131,267	104,314	131,953
<b>\$219,922</b>	<b>\$191,719</b>	<b>\$165,925</b>	<b>\$156,098</b>	<b>\$131,267</b>	<b>\$104,314</b>

2013	2012	2011	2010	2009	2008
\$402,308	\$378,338	\$313,947	\$319,739	\$295,874	\$282,877
383,665	357,791	297,614	312,330	295,874	283,369
			25,671		
999,304	681,003	71,541	684,169	958,382	(1,405,228)
<b>\$1,785,277</b>	<b>\$1,417,132</b>	<b>\$683,102</b>	<b>\$1,341,909</b>	<b>\$1,550,130</b>	<b>\$(838,982)</b>
\$951,163	\$1,067,020	\$175,587	\$402,564	\$262,920	\$500,040
3,360	8	11,116	6,460	14,623	
<b>\$954,523</b>	<b>\$1,067,028</b>	<b>\$186,703</b>	<b>\$409,024</b>	<b>\$277,543</b>	<b>\$500,040</b>
<b>\$830,754</b>	<b>\$350,104</b>	<b>\$496,399</b>	<b>\$932,885</b>	<b>\$1,272,587</b>	<b>\$(1,339,022)</b>
6,655,826	6,305,722	5,809,323	4,876,438	3,603,851	4,942,873
<b>\$7,486,580</b>	<b>\$6,655,826</b>	<b>\$6,305,722</b>	<b>\$5,809,323</b>	<b>\$4,876,438</b>	<b>\$3,603,851</b>

## Changes in Fiduciary Net Position

## Self-Directed Assets for Affiliated Local &amp; Defined Benefit System Plans

<b>Additions</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Employer Contributions	\$1,624,436	\$1,630,058	\$1,835,971	\$2,282,111
Member Contributions	33,719,225	32,195,754	31,834,156	32,938,657
Affiliations (Withdrawals)	102,265,127			
State Contributions				
Investment Income (Loss)	37,191,506	15,239,580	(906,517)	12,440,752
<b>Total Additions</b>	<b>\$174,800,294</b>	<b>\$49,065,392</b>	<b>\$32,763,610</b>	<b>\$47,661,520</b>
<b>Deductions</b>				
Benefit Payments:				
Retirees/Survivors				
Death/Disability				
Refunds of Contributions	\$127,314,764	\$41,738,925	\$62,813,697	\$39,891,560
Administrative Costs	1,037,020	1,078,844	782,721	797,665
<b>Total Deductions</b>	<b>\$128,351,784</b>	<b>\$42,817,769</b>	<b>\$63,596,418</b>	<b>\$40,689,225</b>
<b>Changes in Fiduciary Net Position</b>	<b>\$46,448,510</b>	<b>\$6,247,623</b>	<b>\$(30,832,808)</b>	<b>\$6,972,295</b>
<i>Fiduciary Net Position at Beginning of Year</i>	<i>254,111,268</i>	<i>247,863,645</i>	<i>278,696,453</i>	<i>271,724,158</i>
<b><i>Fiduciary Net Position at End of Year</i></b>	<b><i>\$300,559,778</i></b>	<b><i>\$254,111,268</i></b>	<b><i>\$247,863,645</i></b>	<b><i>\$278,696,453</i></b>

Note: Included above are the self-directed assets of the Statewide Hybrid - Money Purchase Component Plan and the Deferred Retirement Option Plan and Separate Retirements Accounts for Affiliated Local and Defined Benefit System Plans.

## IRC 457 Deferred Compensation Plan

<b>Additions</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Employer Contributions	\$1,385,728	\$1,161,895	\$905,027	\$815,971
Member Contributions	9,940,468	9,361,890	8,652,472	7,289,039
Affiliations (Withdrawals)				
State Contributions				
Investment Income (Loss)	21,119,356	7,728,217	930	5,370,110
<b>Total Additions</b>	<b>\$32,445,552</b>	<b>\$18,252,002</b>	<b>\$9,558,429</b>	<b>\$13,475,120</b>
<b>Deductions</b>				
Benefit Payments:				
Retirees/Survivors				
Death/Disability				
Refunds of Contributions	\$5,463,548	\$7,220,110	\$5,136,008	\$5,433,841
Administrative Costs	240,586	197,499	59,118	20,917
<b>Total Deductions</b>	<b>\$5,704,134</b>	<b>\$7,417,609</b>	<b>\$5,195,126</b>	<b>\$5,454,758</b>
<b>Changes in Fiduciary Net Position</b>	<b>\$26,741,418</b>	<b>\$10,834,393</b>	<b>\$4,363,303</b>	<b>\$8,020,362</b>
<i>Fiduciary Net Position at Beginning of Year</i>	<i>112,540,415</i>	<i>101,706,022</i>	<i>97,342,719</i>	<i>89,322,357</i>
<b><i>Fiduciary Net Position at End of Year</i></b>	<b><i>\$139,281,833</i></b>	<b><i>\$112,540,415</i></b>	<b><i>\$101,706,022</i></b>	<b><i>\$97,342,719</i></b>



## Changes in Fiduciary Net Position

2013	2012	2011	2010	2009	2008
\$2,393,547	\$2,460,673	\$2,421,796	\$2,277,700	\$2,279,807	\$2,065,284
32,544,971	27,921,453	29,697,334	28,407,353	17,604,699	17,009,496
11,888,411	2,094,860	83,427,455	865,113	26,112,745	1,532,625
29,174,866	20,173,141	1,596,788	16,632,880	27,211,960	(30,051,876)
<b>\$76,001,795</b>	<b>\$52,650,127</b>	<b>\$117,143,373</b>	<b>\$48,183,046</b>	<b>\$73,209,211</b>	<b>\$(9,444,471)</b>
\$42,699,246	\$42,317,300	\$67,711,031	\$27,588,789	\$22,942,996	\$20,852,584
638,000	679,615	649,032	336,571	271,171	
<b>\$43,337,246</b>	<b>\$42,996,915</b>	<b>\$68,360,063</b>	<b>\$27,925,360</b>	<b>\$23,214,167</b>	<b>\$20,852,584</b>
<b>\$32,664,549</b>	<b>\$9,653,212</b>	<b>\$48,783,310</b>	<b>\$20,257,686</b>	<b>\$49,995,044</b>	<b>\$(30,297,055)</b>
239,059,609	229,406,397	180,623,087	160,365,401	110,370,357	140,667,412
<b>\$271,724,158</b>	<b>\$239,059,609</b>	<b>\$229,406,397</b>	<b>\$180,623,087</b>	<b>\$160,365,401</b>	<b>\$110,370,357</b>

2013	2012	2011	2010	2009	2008
\$790,036	\$754,739	\$700,428			
7,232,784	7,519,449	6,080,792	7,084,610	5,860,778	6,856,002
	(3,605,954)				
13,771,024	7,862,887	(145,669)	7,693,086	11,134,415	(17,374,290)
<b>\$21,793,844</b>	<b>\$12,531,121</b>	<b>\$6,635,551</b>	<b>\$14,777,696</b>	<b>\$16,995,193</b>	<b>\$(10,518,288)</b>
\$4,254,537	\$4,457,433	\$4,792,208	\$4,837,214	\$1,909,744	\$1,821,135
16,574	19,287	87,870	41,913	40,629	
<b>\$4,271,111</b>	<b>\$4,476,720</b>	<b>\$4,880,078</b>	<b>\$4,879,127</b>	<b>\$1,950,373</b>	<b>\$1,821,135</b>
<b>\$17,522,733</b>	<b>\$8,054,401</b>	<b>\$1,755,473</b>	<b>\$9,898,569</b>	<b>\$15,044,820</b>	<b>\$(12,339,423)</b>
71,799,624	63,745,223	61,989,750	52,091,181	37,046,361	49,385,784
<b>\$89,322,357</b>	<b>\$71,799,624</b>	<b>\$63,745,223</b>	<b>\$61,989,750</b>	<b>\$52,091,181</b>	<b>\$37,046,361</b>

## Schedule of Average Benefit Payments for New Benefit Recipients

## Affiliated Local Plans

Year Retired	In Total
<b>1/1/2017 - 12/31/2017</b>	
Average monthly benefit	\$1,004
Average highest average salary	Not Available
Number of service retirees	185
<b>1/1/2016 - 12/31/2016</b>	
Average monthly benefit	\$971
Average highest average salary	Not Available
Number of service retirees	169
<b>1/1/2015 - 12/31/2015</b>	
Average monthly benefit	\$878
Average highest average salary	Not Available
Number of service retirees	190
<b>1/1/2014 - 12/31/2014</b>	
Average monthly benefit	\$887
Average highest average salary	Not Available
Number of service retirees	197
<b>1/1/2013 - 12/31/2013</b>	
Average monthly benefit	\$834
Average highest average salary	Not Available
Number of service retirees	229

Year Retired	In Total
<b>1/1/2012 - 12/31/2012</b>	
Average monthly benefit	\$344
Average highest average salary	Not Available
Number of service retirees	157
<b>1/1/2011 - 12/31/2011</b>	
Average monthly benefit	\$456
Average highest average salary	Not Available
Number of service retirees	135
<b>1/1/2010 - 12/31/2010</b>	
Average monthly benefit	\$415
Average highest average salary	Not Available
Number of service retirees	172
<b>1/1/2009 - 12/31/2009</b>	
Average monthly benefit	\$429
Average highest average salary	Not Available
Number of service retirees	125
<b>1/1/2008 - 12/31/2008</b>	
Average monthly benefit	\$399
Average highest average salary	Not Available
Number of service retirees	95

Note: Information on Years of Service is not available for the Affiliated Local Plans.

## Schedule of Average Benefit Payments for New Benefit Recipients

## Statewide Death &amp; Disability Plan

Year Retired	In Total
<b>1/1/2017 - 12/31/2017</b>	
Average monthly benefit	\$2,401
Average final salary	\$6,400
Number of service retirees	92
<b>1/1/2016 - 12/31/2016</b>	
Average monthly benefit	\$2,239
Average final salary	\$6,148
Number of service retirees	68
<b>1/1/2015 - 12/31/2015</b>	
Average monthly benefit	\$2,478
Average final salary	\$5,787
Number of service retirees	52
<b>1/1/2014 - 12/31/2014</b>	
Average monthly benefit	\$2,336
Average final salary	\$5,829
Number of service retirees	67
<b>1/1/2013 - 12/31/2013</b>	
Average monthly benefit	\$2,413
Average highest average salary	\$5,761
Number of service retirees	56

Year Retired	In Total
<b>1/1/2012 - 12/31/2012</b>	
Average monthly benefit	\$2,160
Average highest average salary	\$5,748
Number of service retirees	56
<b>1/1/2011 - 12/31/2011</b>	
Average monthly benefit	\$2,078
Average highest average salary	\$5,362
Number of service retirees	46
<b>1/1/2010 - 12/31/2010</b>	
Average monthly benefit	\$2,777
Average highest average salary	\$5,804
Number of service retirees	50
<b>1/1/2009 - 12/31/2009</b>	
Average monthly benefit	\$2,372
Average highest average salary	Not Available
Number of service retirees	54
<b>1/1/2008 - 12/31/2008</b>	
Average monthly benefit	\$2,332
Average highest average salary	Not Available
Number of service retirees	45

Note: Service is not taken into consideration in the benefit calculation for the Statewide Death & Disability Plan, therefore only totals are available.

Schedule of Average Benefit Payments for New Benefit Recipients

Defined Benefit System | Statewide Defined Benefit Plan

Year Retired	Years of Service Credit					
	0-10	10-15	15-20	20-25	25-30	30+
<b>1/1/2017 - 12/31/2017</b>						
Average monthly benefit	\$892	\$1,264	\$2,262	\$4,084	\$4,238	\$5,949
Average highest average salary	\$5,382	\$5,394	\$6,290	\$8,802	\$7,660	\$8,087
Number of service retirees	14	18	16	14	35	43
<b>1/1/2016 - 12/31/2016</b>						
Average monthly benefit	\$628	\$1,263	\$1,870	\$3,192	\$4,541	\$5,197
Average highest average salary	\$5,442	\$5,259	\$5,919	\$6,737	\$6,299	\$7,818
Number of service retirees	10	11	13	13	44	40
<b>1/1/2015 - 12/31/2015</b>						
Average monthly benefit	\$725	\$1,217	\$1,929	\$3,594	\$4,390	\$4,876
Average highest average salary	\$4,877	\$5,157	\$5,509	\$7,235	\$7,437	\$7,280
Number of service retirees	3	19	9	22	33	45
<b>1/1/2014 - 12/31/2014</b>						
Average monthly benefit	\$700	\$1,089	\$2,167	\$3,317	\$4,003	\$5,333
Average highest average salary	\$4,861	\$4,467	\$5,945	\$6,809	\$7,021	\$7,443
Number of service retirees	13	18	6	30	43	36
<b>1/1/2013 - 12/31/2013</b>						
Average monthly benefit	\$639	\$1,186	\$2,249	\$3,174	\$4,226	\$5,131
Average highest average salary	\$4,719	\$7,173	\$6,925	\$6,765	\$7,378	\$7,501
Number of service retirees	9	12	5	25	42	62
<b>1/1/2012 - 12/31/2012</b>						
Average monthly benefit	\$314	\$963	\$2,052	\$3,088	\$3,978	\$5,002
Average highest average salary	\$3,787	\$4,863	\$5,771	\$6,733	\$6,709	\$7,147
Number of service retirees	2	9	9	23	35	37
<b>1/1/2011 - 12/31/2011</b>						
Average monthly benefit	\$708	\$986	\$1,459	\$3,003	\$4,031	\$4,775
Average highest average salary	\$5,403	\$4,914	\$4,656	\$6,329	\$6,842	\$6,786
Number of service retirees	4	9	6	24	44	43
<b>1/1/2010 - 12/31/2010</b>						
Average monthly benefit	\$681	\$863	\$1,692	\$3,171	\$3,954	\$4,571
Average highest average salary	\$1,958	\$3,607	\$4,463	\$6,487	\$6,829	\$6,945
Number of service retirees	4	4	13	15	32	26
<b>1/1/2009 - 12/31/2009</b>						
Average monthly benefit	\$0	\$834	\$2,275	\$2,527	\$3,600	\$4,601
Average highest average salary	\$0	\$3,903	\$5,755	\$5,457	\$6,056	\$6,613
Number of service retirees	0	8	7	13	30	17
<b>1/1/2008 - 12/31/2008</b>						
Average monthly benefit	\$1,165	\$1,193	\$1,632	\$2,566	\$3,667	\$3,717
Average highest average salary	\$3,940	\$3,957	\$4,107	\$4,965	\$5,478	\$6,892
Number of service retirees	2	5	9	15	26	8

## Schedule of Average Benefit Payments for New Benefit Recipients

## Defined Benefit System | Statewide Hybrid Plan – Defined Benefit Component

Year Retired	Years of Service Credit					
	0-10	10-15	15-20	20-25	25-30	30+
<b>1/1/2017 - 12/31/2017</b>						
Average monthly benefit	\$0	\$0	\$0	\$3,684	\$4,001	\$5,338
Average highest average salary	\$0	\$0	\$0	\$8,951	\$6,778	\$8,211
Number of service retirees	0	0	0	1	1	1
<b>1/1/2016 - 12/31/2016</b>						
Average monthly benefit	\$0	\$0	\$0	\$3,208	\$2,984	\$5,652
Average highest average salary	\$0	\$0	\$0	\$8,818	\$6,824	\$10,565
Number of service retirees	0	0	0	2	2	2
<b>1/1/2015 - 12/31/2015</b>						
Average monthly benefit	\$1,287	\$2,338	\$1,952	\$1,614	\$0	\$2,844
Average highest average salary	\$5,007	\$10,889	\$5,670	\$5,952	\$0	\$6,965
Number of service retirees	4	1	1	1	0	2
<b>1/1/2014 - 12/31/2014</b>						
Average monthly benefit	\$3,412	\$0	\$0	\$0	\$0	\$3,488
Average highest average salary	\$3,837	\$0	\$0	\$0	\$0	\$6,820
Number of service retirees	2	0	0	0	0	4
<b>1/1/2013 - 12/31/2013</b>						
Average monthly benefit	\$0	\$0	\$0	\$0	\$3,162	\$2,459
Average highest average salary	\$0	\$0	\$0	\$0	\$8,083	\$5,455
Number of service retirees	0	0	0	0	1	2
<b>1/1/2012 - 12/31/2012</b>						
Average monthly benefit	\$0	\$1,552	\$0	\$2,065	\$0	\$0
Average highest average salary	\$0	\$4,964	\$0	\$5,815	\$0	\$0
Number of service retirees	0	1	0	1	0	0
<b>1/1/2011 - 12/31/2011</b>						
Average monthly benefit	\$4,560	\$1,671	\$0	\$0	\$0	\$4,889
Average highest average salary	N/A	\$8,854	\$0	\$0	\$0	\$7,530
Number of service retirees	1	1	0	0	0	1
<b>1/1/2010 - 12/31/2010</b>						
Average monthly benefit	\$0	\$993	\$0	\$0	\$1,801	\$2,374
Average highest average salary	\$0	\$4,168	\$0	\$0	\$5,674	\$6,331
Number of service retirees	0	1	0	0	1	2
<b>1/1/2009 - 12/31/2009</b>						
Average monthly benefit	\$0	\$0	\$0	\$0	\$0	\$0
Average highest average salary	\$0	\$0	\$0	\$0	\$0	\$0
Number of service retirees	0	0	0	0	0	0
<b>1/1/2008 - 12/31/2008</b>						
Average monthly benefit	\$0	\$0	\$0	\$0	\$1,579	\$3,365
Average highest average salary	\$0	\$0	\$0	\$0	\$4,887	\$7,901
Number of service retirees	0	0	0	0	1	1

Schedule of Average Benefit Payments for New Benefit Recipients

Defined Benefit System | Colorado Springs New Hire Pension Plan

Year Retired	Years of Service Credit					
	0-10	10-15	15-20	20-25	25-30	30+
<b>1/1/2017 - 12/31/2017</b>						
Average monthly benefit	\$0	\$1,590	\$2,571	\$3,790	\$4,427	\$5,563
Average highest average salary	\$0	\$5,672	\$6,270	\$7,347	\$7,019	\$7,651
Number of service retirees	0	4	3	5	22	7
<b>1/1/2016 - 12/31/2016</b>						
Average monthly benefit	\$0	\$1,515	\$1,212	\$2,686	\$4,498	\$5,441
Average highest average salary	\$0	\$6,001	\$6,088	\$6,824	\$7,305	\$7,108
Number of service retirees	0	3	2	10	25	9
<b>1/1/2015 - 12/31/2015</b>						
Average monthly benefit	\$0	\$1,000	\$2,291	\$3,684	\$4,369	\$6,243
Average highest average salary	\$0	\$4,710	\$5,935	\$6,622	\$7,058	\$8,362
Number of service retirees	0	4	3	8	19	11
<b>1/1/2014 - 12/31/2014</b>						
Average monthly benefit	\$0	\$1,186	\$1,917	\$3,253	\$4,081	\$5,828
Average highest average salary	\$0	\$4,744	\$5,053	\$6,126	\$6,516	\$7,718
Number of service retirees	0	3	4	5	9	9
<b>1/1/2013 - 12/31/2013</b>						
Average monthly benefit	\$0	\$1,287	\$1,703	\$3,165	\$4,099	\$0
Average highest average salary	\$0	\$5,589	\$5,017	\$6,293	\$6,602	\$0
Number of service retirees	0	2	2	7	5	0
<b>1/1/2012 - 12/31/2012</b>						
Average monthly benefit	\$0	\$1,281	\$2,977	\$2,711	\$4,522	\$4,327
Average highest average salary	\$0	\$5,629	\$7,088	\$5,449	\$6,885	\$5,769
Number of service retirees	0	2	1	3	4	1
<b>1/1/2011 - 12/31/2011</b>						
Average monthly benefit	\$0	\$1,253	\$1,903	\$3,114	\$4,559	\$5,255
Average highest average salary	\$0	\$5,064	\$5,653	\$6,323	\$6,985	\$6,955
Number of service retirees	0	3	7	9	13	7
<b>1/1/2010 - 12/31/2010</b>						
Average monthly benefit	\$0	\$1,283	\$1,843	\$3,607	\$4,397	\$5,879
Average highest average salary	\$0	\$5,639	\$5,064	\$6,746	\$6,903	\$8,512
Number of service retirees	0	1	3	6	19	8
<b>1/1/2009 - 12/31/2009</b>						
Average monthly benefit	\$0	\$930	\$1,567	\$3,092	\$4,596	\$5,188
Average highest average salary	\$0	\$4,312	\$5,223	\$5,839	\$7,030	\$6,868
Number of service retirees	0	3	1	6	8	12
<b>1/1/2008 - 12/31/2008</b>						
Average monthly benefit	\$0	\$1,767	\$0	\$3,238	\$4,116	\$5,981
Average highest average salary	\$0	\$5,684	\$0	\$5,923	\$6,390	\$7,961
Number of service retirees	0	1	0	7	17	3

## Principal Participating Employers

## Affiliated Local Plans

Employer	As of 12/31/2017			As of 12/31/2008		
	Rank	Covered Active Members	Percentage of Total Plan	Rank	Covered Active Members	Percentage of Total Plan
Evergreen Fire Protection District (Volunteer)	1	102	3.53%	3	86	1.92%
Durango Fire Protection District (Volunteer)	2	81	2.80%	1	107	2.39%
Telluride Fire Protection District (Volunteer)	3	60	2.08%	8	61	1.36%
Carbondale & Rural Fire Protection District (Volunteer)	4	52	1.80%	N/A*	N/A*	N/A*
Foothills Fire & Rescue (Volunteer)	5	45	1.56%	N/A*	N/A*	N/A*
East Grand Fire Protection District #4 (Volunteer)	6	42	1.45%	N/A*	N/A*	N/A*
Florence Fire Protection District (Volunteer)	6	42	1.45%	5	77	1.72%
Boulder Mountain Fire Protection District (Volunteer)	7	40	1.38%	N/A*	N/A*	N/A*
Lamar Fire (Volunteer)	7	40	1.38%	N/A*	N/A*	N/A*
Pleasant View Metro Fire District (Volunteer)	7	40	1.38%	N/A*	N/A*	N/A*
Hygiene Fire Protection District (Volunteer)	8	37	1.28%	N/A*	N/A*	N/A*
Lyons Fire Protection District (Volunteer)	8	37	1.28%	N/A*	N/A*	N/A*
Holyoke Fire Protection District (Volunteer)	9	36	1.25%	N/A*	N/A*	N/A*
Northwest Conejos County Fire Protection District (Volunteer)	9	36	1.25%	N/A*	N/A*	N/A*
Rattlesnake Fire Protection District (Volunteer)	9	36	1.25%	N/A*	N/A*	N/A*
Inter-Canyon Fire Protection District (Volunteer)	10	35	1.21%	10	54	1.21%
South Adams County Fire Protection District (Volunteer)	N/A**	N/A**	N/A**	2	94	2.10%
Golden Volunteer Fire Department	N/A**	N/A**	N/A**	4	82	1.83%
Mountain View Fire Protection District (Volunteer)	N/A**	N/A**	N/A**	6	68	1.52%
Evans Volunteer Fire Department	N/A**	N/A**	N/A**	7	62	1.38%
Lafayette Fire (Volunteer)	N/A**	N/A**	N/A**	9	60	1.34%
Larkspur Fire Protection District (Volunteer)	N/A**	N/A**	N/A**	10	54	1.21%

Note: Many of the plans in this group are closed plans and do not have active members.

\*In 2008, this employer did not rank in the Top Ten.

\*\*In 2017, this employer did not rank in the Top Ten.

Principal Participating Employers

Statewide Death & Disability

Employer	As of 12/31/2017			As of 12/31/2008		
	Rank	Covered Active Members	Percentage of Total Plan	Rank	Covered Active Members	Percentage of Total Plan
Denver Police	1	1,416	11.59%	1	1,472	13.16%
Denver Fire	2	900	7.37%	2	865	7.73%
Aurora Police	3	699	5.72%	3	629	5.62%
Colorado Springs Police	4	636	5.21%	4	619	5.53%
South Metro Fire Rescue	5	402	3.29%	6	329	2.94%
Colorado Springs Fire	6	388	3.18%	5	402	3.59%
Aurora Fire	7	351	2.87%	8	289	2.58%
West Metro Fire Protection District	8	318	2.60%	7	325	2.90%
Thornton Police	9	236	1.93%	N/A*	N/A*	N/A*
Fort Collins Police	10	235	1.92%	10	182	1.63%
Pueblo Police	N/A**	N/A**	N/A**	9	185	1.65%

\*In 2008, this employer did not rank in the Top Ten.

\*\*In 2017, this employer did not rank in the Top Ten.

Defined Benefit System | Statewide Defined Benefit Plan

Employer	As of 12/31/2017			As of 12/31/2008		
	Rank	Covered Active Members	Percentage of Total Plan	Rank	Covered Active Members	Percentage of Total Plan
Denver Police	1	1,575	18.05%	1	1,503	27.18%
Denver Fire	2	1,019	11.68%	2	857	15.50%
Colorado Springs Police	3	401	4.59%	10	92	1.66%
Aurora Fire	4	346	3.96%	N/A*	N/A*	N/A*
Colorado Springs Fire	5	314	3.60%	8	98	1.77%
Pueblo Police	6	217	2.49%	3	185	3.35%
Thornton Police	7	203	2.33%	N/A*	N/A*	N/A*
West Metro Fire Protection District	8	189	2.17%	9	94	1.70%
Arvada Fire Protection District	9	163	1.87%	8	98	1.77%
Westminster Police	10	160	1.83%	N/A*	N/A*	N/A*
Pueblo Fire	N/A**	N/A**	N/A**	4	121	2.19%
Westminster Fire	N/A**	N/A**	N/A**	5	113	2.04%
North Metro Fire Rescue	N/A**	N/A**	N/A**	6	105	1.90%
Union Colony Fire Rescue	N/A**	N/A**	N/A**	7	101	1.83%

\*In 2008, this employer did not rank in the Top Ten.

\*\*In 2017, this employer did not rank in the Top Ten.



## Principal Participating Employers

## Defined Benefit System | Statewide Hybrid Plan

Employer	As of 12/31/2017			As of 12/31/2008		
	Rank	Covered Active Members	Percentage of Total Plan	Rank	Covered Active Members	Percentage of Total Plan
West Metro Fire Protection District	1	160	42.44%	1	238	65.21%
Aurora Fire	2	49	13.00%	N/A*	N/A*	N/A*
Evans Police	3	37	9.81%	2	27	7.40%
Westminster Police	4	21	5.57%	N/A*	N/A*	N/A*
Littleton Fire	5	19	5.04%	N/A*	N/A*	N/A*
Thornton Police	6	12	3.18%	N/A*	N/A*	N/A*
Westminster Fire	7	11	2.92%	3	22	6.03%
Canon City Police	8	8	2.12%	4	19	5.21%
Thornton Fire	8	8	2.12%	N/A*	N/A*	N/A*
Lafayette Police	9	7	1.86%	6	10	2.74%
North Metro Fire Rescue	10	6	1.59%	5	14	3.84%
Summit Fire & EMS Authority	10	6	1.59%	N/A*	N/A*	N/A*
Lake Dillon Fire Protection District	N/A**	N/A**	N/A**	7	8	2.19%
Snowmass Wildcat Fire Protection District	N/A**	N/A**	N/A**	8	6	1.64%
Brighton Police	N/A**	N/A**	N/A**	9	4	1.10%
Trinidad Fire	N/A**	N/A**	N/A**	9	4	1.10%
Federal Heights Police	N/A**	N/A**	N/A**	10	3	0.82%

\*In 2008, this employer did not rank in the Top Ten.

\*\*In 2017, this employer did not rank in the Top Ten.

## Fire &amp; Police Members' Statewide Money Purchase Plan

Employer	As of 12/31/2017			As of 12/31/2008		
	Rank	Covered Active Members	Percentage of Total Plan	Rank	Covered Active Members	Percentage of Total Plan
Colorado River Fire Protection District	1	17	14.41%	N/A*	N/A*	N/A*
Elizabeth Fire Protection District	1	17	14.41%	3	16	15.84%
Grand Valley Fire Protection District	1	17	14.41%	N/A*	N/A*	N/A*
Windsor Severance Fire Protection District	2	14	11.86%	N/A*	N/A*	N/A*
Eaton Fire Protection District	3	8	6.78%	2	19	18.81%
Mountain Village Police	4	5	4.24%	4	8	7.92%
West Routt Fire Protection District	4	5	4.24%	N/A*	N/A*	N/A*
Upper Pine River Fire Protection District	5	3	2.54%	N/A*	N/A*	N/A*
Fairmount Fire Protection District	6	2	1.69%	N/A*	N/A*	N/A*
Jefferson-Como Fire Protection District	6	2	1.69%	N/A*	N/A*	N/A*
Sable-Altura Fire Protection District	6	2	1.69%	N/A*	N/A*	N/A*
Rifle Fire Protection District	N/A**	N/A**	N/A**	1	32	31.68%
Central City Police	N/A**	N/A**	N/A**	5	4	3.96%
Colorado Springs Police	N/A**	N/A**	N/A**	6	3	2.97%

\*In 2008, this employer did not rank in the Top Ten.

\*\*In 2017, this employer did not rank in the Top Ten.

Principal Participating Employers

Defined Benefit System | Colorado Springs New Hire Pension Plan

Employer	As of 12/31/2017			As of 12/31/2008		
	Rank	Covered Active Members	Percentage of Total Plan	Rank	Covered Active Members	Percentage of Total Plan
Colorado Springs Police	1	353	71.03%	1	539	63.71%
Colorado Springs Fire	2	144	28.97%	2	307	36.29%

Employers of Affiliated Local Volunteer Firefighters Plans

Adams County (North Washington) FPD*	Elbert FPD & Rescue	Lake City Area FPD	Pleasant View Metro Fire District
Alamosa County FPD	Elizabeth FPD*	Lake Dillon FPD*	Poudre Canyon FPD
Alamosa Fire	Elk Creek FPD	Lake George FPD	Poudre Fire Authority*
Allenspark FPD	Englewood Fire*	Lamar Fire	Rangely Rural FPD
Aspen FPD	Evans FPD	Larkspur FPD	Rattlesnake FPD
Ault FPD	Evergreen FPD	Lefthand FPD	Red Feather Lakes FPD
Basalt & Rural FPD	Falcon FPD*	Lewis-Arriola FPD	Red White & Blue FPD*
Bennett FPD #7	Federal Heights Fire	Limon Area FPD	Ridgway FPD
Berthoud FPD	Fisher's Peak FPD	Livermore FPD	Rio Blanco FPD
Big Sandy FPD	Florence FPD	Log Hill Mesa FPD	Rocky Ford Fire
Big Thompson Canyon Fire	Foothills Fire & Rescue	Loveland & Rural Consolidated VFD*	Rocky Mountain VFD*
Black Forest Fire Rescue	Fort Lewis Mesa FPD	Lower Valley FPD	Sable-Altura FPD
Blanca Fire*	Fort Morgan Fire	Lyons FPD	Sheridan Fire*
Boone Fire	Fort Morgan Rural FPD	Mancos FPD	Silverton San Juan FRA
Boulder Mountain FPD	Franktown FPD	Manitou Springs VFD	South Adams County FPD
Boulder Rural FPD	Frederick Firestone FPD*	Manzanola Rural FPD	South Arkansas FPD*
Brighton VFD*	Galeton FPD	Montrose FPD	South Conejos FPD
Brush Combined Fire	Genesee FPD	Mountain View FPD	South Metro Fire Rescue*
Buena Vista Fire	Glacier View FPD	Nederland FPD	Southwest Washington County FPD
Calhan FPD	Glendale Fire*	New Raymer/Stoneham FPD	Springfield Fire
Cañon City Area FPD	Glenwood Springs Fire	North Fork FPD	Steamboat Springs VFD
Carbondale & Rural FPD	Golden Fire	North Routt County Fire	Sterling Fire
Cascade FPD	Golden Gate FPD	Northeast Teller County FPD	Stonewall FPD
Castle Rock Fire	Grand FPD #1	North-West FPD	Stratton FPD
Central City VFD	Grand Lake FPD	Northwest Conejos County FPD	Sugar City Fire
Central Orchard Mesa FPD	Grand Valley FPD	Norwood FPD	Sugarloaf FPD
Cheyenne County FPD #1	Green Mountain Falls-Chipita Park FPD	Nucla-Naturita FPD	Telluride FPD
Clear Creek Fire Authority	Gypsum FPD	Nunn FPD	Timberline FPD
Clifton FPD	Hartsel FPD	Oak Creek FPD	Walsh VFD
Coal Creek Canyon FPD	Haxtun Fire	Olathe FPD	Wellington FPD
Colorado River (Burning Mountains) FPD*	Hillrose Rural FPD	Olney Springs Fire	West Cheyenne FPD
Colorado River (Rifle) FPD	Holyoke Fire	Ordway Fire	West Douglas County FPD
Crested Butte FPD	Holyoke FPD	Ouray VFD	West Metro FPD*
Cripple Creek Fire*	Hot Sulphur Springs/Parshall FPD	Palisade VFD	West Routt FPD
Crowley VFD	Hygiene FPD	Palmer Lake Fire	Westminster VFD*
Crystal Lakes FPD	Indian Hills FPD	Parker FPD*	Wet Mountain FPD
Divide VFD	Inter-Canyon FPD	Pawnee FPD	Wiggins Rural FPD
Donald Wescott FPD	Jackson 105 FPD	Peetz FPD	Wiley Rural FPD
Dove Creek FPD	Jefferson-Como FPD	Peyton FPD	Windsor Severance FPD
Durango FPD	Kiowa FPD	Pinewood Springs VFD	Yampa FPD
Eads Fire	Kremmling FPD	Plateau Valley FPD	Yuma Fire
East Grand FPD #4	La Junta Fire	Platte Canyon FPD	
Eaton FPD	La Salle FPD	Platte Valley FPD	
Eckley Fire	Lafayette Fire*	Platteville/Gilcrest FPD	

\* No active members at December 31, 2017

Employers

Employers of Defined Benefit System | Colorado Springs New Hire Pension Plan

Colorado Springs Fire                      Colorado Springs Police

Employers of Affiliated Local "Old Hire" Plans

Adams County (North Washington) FPD*	Denver Police	La Salle Police	Rocky Ford Police*
Aurora Fire*	Durango Fire*	Lakewood FPD*	Salida Fire*
Aurora Police	Durango Police*	Lamar Fire*	Salida Police*
Bancroft FPD*	Englewood Fire*	Las Animas Police*	South Adams County FPD*
Cañon City Area FPD*	Englewood Police*	Leadville Fire*	Springfield Police*
Cedaredge Police*	Fort Morgan Police*	Loveland Fire*	Sterling Fire*
Cherry Hills FPD*	Grand Junction Fire*	Manitou Springs Fire*	Sterling Police*
Colorado Springs Fire*	Grand Junction Police*	Montrose FPD*	Thornton Fire
Colorado Springs Police*	Greeley Police*	Mountain View FPD*	Trinidad Fire*
Cortez Police*	Greeley (Union Colony) Fire*	Pueblo Fire	Trinidad Police*
Del Norte Police*	Haxtun Police*	Pueblo Police*	
Denver Fire	La Junta Fire*	Pueblo Rural FPD*	
	La Junta Police*	Red White & Blue FPD*	

Employers of Affiliated Statewide Defined Benefit Supplemental Social Security Plans

Akron Police*	Frederick Police	Johnstown Police	Springfield Police
Cedaredge Police*	Haxtun Police	Kersey Police	Windsor Police
Debeque Police	Holyoke Police	Kremmling Police	

\* No active members at December 31, 2017

## Employers Participating in the FPPA's 457 Deferred Compensation Plan

Adams County FPD	Durango FPD	Inter-Canyon FPD	Poudre Fire Authority
Alamosa Police*	East Grand FPD #4	Jackson 105 FPD*	Pueblo Fire
Arvada FPD	Eaton FPD	Jefferson-Como FPD	Pueblo Police
Arvada Police	Elizabeth FPD	Kiowa FPD	Pueblo Rural FPD
Ault Police	Elk Creek FPD	Kremmling FPD	Red White & Blue FPD
Aurora Fire	Estes Valley FPD	La Jara Police*	Rocky Mountain FPD
Aurora Police	Fairmount FPD	La Salle FPD	Sable-Altura FPD
Basalt & Rural FPD	Falcon FPD	Lake Dillon FPD	Salida Fire
Bayfield Police	Federal Heights Fire	Lakeside Police*	Salida Police
Bennett FPD # 7	Federal Heights Police	Larkspur FPD	Snowmass Wildcat FPD
Berthoud FPD	Firestone Police	Lefthand FPD*	South Adams County FPD
Black Forest Fire Rescue	Foothills Fire & Rescue	Lochbuie Police	Southeast Weld FPD
Boulder Rural FPD	Fort Collins Fire*	Lone Tree Police	Southern Park County FPD*
Brighton Police	Fort Collins Police	Los Pinos FPD	Sterling Fire
Broadmoor FPD	Fort Lewis-Mesa FPD*	Loveland FRA	Sterling Police
Brush Police	Fort Lupton FPD	Loveland Police	Strasburg FPD #8*
Buena Vista Police	FPPA Employees	Lower Valley FPD	Stratmoor Hills FPD
Cañon City Area FPD	Frederick-Firestone FPD	Lyons FPD*	Stratton Police*
Cañon City Police	Front Range Fire Rescue FPD	Manitou Springs Fire	Telluride FPD
Carbondale & Rural FPD	Genesee FPD	Manitou Springs Police	Timberline FPD
Castle Rock Fire	Glendale Police*	Montrose FPD	Tri-Lakes Monument FPD
Center Police	Granada Police*	Mountain View FPD	Trinidad Fire
Chaffee County FPD	Grand FPD #1	Mountain Village Police	Trinidad Police*
Cimarron Hills FPD	Grand Lake FPD	Nederland FPD	Upper Pine River FPD
Clear Creek Fire Authority*	Grand Valley FPD	North Metro Fire Rescue	Vail Fire
Clifton FPD*	Greater Eagle FPD*	Northeast Teller County FPD	Vail Police*
Colorado River FPD	Greeley Fire	North-West FPD	Wellington FPD
Colorado Springs Fire	Greeley Police	Pagosa FPD	West Metro FPD
Colorado Springs Police	Green Mtn	Palisade Fire*	West Routt FPD
Columbine Valley Police*	Falls-Chipita Park FPD*	Palisade Police*	Wiggins Police*
Cortez FPD	Gypsum FPD	Plateau Valley FPD*	Windsor Severance FPD
Crested Butte FPD	Hartsel FPD	Platte Canyon FPD	Wray Police
Cripple Creek Fire	Holyoke Police	Platte Valley FPD	Yuma Police
Cunningham FPD	Hudson FPD	Platteville Police	
Debeque FPD	Hugo Police*	Platteville-Gilcrest FPD	
Debeque Police	Idaho Springs Police*	Pleasant View	
Donald Wescott FPD	Ignacio Police	Metro Fire District	

\* No active members at December 31, 2017

Employers

Employers of the Defined Benefit System | Statewide Defined Benefit Plan

Adams County FPD	Denver Fire	Ignacio Police	Parachute Police
Aguilar Police*	Denver Police	Indian Hills FPD	Parker Police
Alma Police	Dillon Police	Inter-Canyon FPD	Plateau Valley FPD
Antonito Police	Dinosaur Police	Jackson 105 FPD*	Platte Canyon FPD
Arvada FPD	Donald Wescott FPD	Jefferson-Como FPD	Platte Valley FPD
Aspen FPD	Durango FPD	Kiowa FPD	Platteville Police
Ault FPD*	Eads Police*	Kremmling FPD	Platteville-Gilcrest FPD
Ault Police	East Grand FPD #4	La Jara Police	Pleasant View
Aurora Fire	Eaton FPD	La Salle FPD	Metro Fire District
Basalt & Rural FPD	Edgewater Police	La Salle Police	Pueblo Fire
Basalt Police	Elizabeth Police	La Veta Police	Pueblo Police
Bayfield Police	Elk Creek FPD	Lafayette Fire	Pueblo Rural FPD
Bennett FPD #7	Empire Police	Lafayette Police	Pueblo West Metro FPD
Berthoud FPD	Englewood Police	Lake Dillon FPD	Rattlesnake FPD
Beulah Fire Protection	Erie Police	Lake George FPD*	Red White & Blue FPD
& Ambulance District	Estes Valley FPD	Lakeside Police	Rio Blanco FPD
Big Sandy FPD	Evans FPD	Lamar Fire*	Rocky Mountain FPD
Black Forest Fire Rescue	Evans Police	Larkspur FPD	Rye FPD
Black Hawk Fire	Evergreen FPD	Las Animas Police*	Sable-Altura FPD
Blanca Police	Fairmount FPD	Leadville Fire	Salida Fire
Boulder Mountain FPD	Fairplay Marshalls	Leadville Police	Salida Police
Boulder Rural FPD	Falcon FPD	Lefthand FPD	San Luis Police*
Bow Mar Police*	Federal Heights Fire	Littleton Fire	Sanford Police
Briggsdale FPD	Federal Heights Police	Lochbuie Police	Security FPD
Brighton (Greater) FPD	Firestone Police	Log Lane Village Police	Sheridan Police
Brighton Police	Florence Police	Lone Tree Police	Silt Police
Broadmoor FPD	Florissant FPD*	Los Pinos FPD	Snowmass Wildcat FPD
Brush Police	Foothills Fire & Rescue	Lower Valley FPD	South Adams County FPD
Buena Vista Fire	Fort Lewis-Mesa FPD	Lyons FPD	South Fork FPD
Buena Vista Police	Fort Lupton FPD	Manassa Police	South Fork Police
Byers FPD #9	Fountain Fire	Manitou Springs Fire	Southeast Weld FPD
Cañon City Police	Fowler Police	Manitou Springs Police	Southern Park County FPD
Carbondale & Rural FPD	Franktown FPD	Mead Police	Steamboat Springs Fire
Castle Rock Fire	Frederick Firestone FPD	Milliken Police	Sterling Fire
Center Police	Frisco Police	Minturn Fire*	Sterling Police
Central City Fire*	Front Range Fire Rescue FPD	Montrose FPD	Strasburg FPD #8
Chaffee County FPD	Garden City Police	Mountain View FPD	Stratmoor Hills FPD
Cimarron Hills FPD	Gateway-Unaweep FPD	Mountain View Police	Stratton Police
Clear Creek Fire Authority	Genesee FPD	Nederland FPD	Telluride FPD
Clifton FPD	Georgetown Police	North Fork Fire	Thornton Fire
Coal Creek Canyon FPD	Gilcrest Police*	North Metro Fire Rescue	Thornton Police
Collbran Marshalls Police*	Granada Police*	North Routt FPD	Timberline FPD
Colorado Centre	Grand FPD #1	Northeast Teller County FPD	Tri Lakes Monument FPD
Metro District Fire*	Grand Lake FPD	North-West FPD	Trinidad Fire
Colorado River FPD	Grand Valley FPD	Nunn Police	Upper Pine River FPD
Colorado Springs Fire	Greater Eagle FPD	Oak Creek FPD	Wellington FPD
Colorado Springs Police	Greeley Fire	Oak Creek Police	West Douglas County FPD
Columbine Valley Police	Green Mountain	Olathe Police	West Metro FPD
Copper Mountain Fire	Falls-Chipita Park FPD*	Pagosa FPD	West Routt FPD
Cortez FPD	Gypsum FPD	Pagosa Springs Police	Westminster Fire
Crested Butte FPD	Hartsel FPD	Palisade Fire	Westminster Police
Cripple Creek Fire	Hudson FPD	Palisade Police	Wiggins Police
Cunningham FPD	Hugo Police	Palmer Lake Fire	Windsor-Severance FPD
Dacono Police	Hygiene FPD*	Palmer Lake Police	Wray Police
Debeque FPD	Idaho Springs Police	Paonia Police	Yuma Police

\* No active members at December 31, 2017

## Employers of the Defined Benefit System | Statewide Hybrid Plan

Arvada FPD*	Englewood Police	Lafayette Police	Snowmass Wildcat FPD
Aurora Fire	Evans Police	Lake Dillon FPD	Sterling Fire*
Basalt Police	Federal Heights Fire*	Littleton Fire	Thornton Fire
Brighton Police*	Federal Heights Police*	Milliken Police	Thornton Police
Buena Vista Police	Florence Police*	Montrose FPD*	Timberline FPD*
Cañon City Police	Foothills Fire and Rescue	North Metro Fire Rescue	Trinidad Fire
Carbondale & Rural FPD	Fountain Fire	Oak Creek Police	Upper Pine River FPD
Dacono Police*	Granada Police	Sable-Altura FPD	West Metro FPD
Dillon Police*	Grand FPD #1*	Security FPD*	Westminster Fire
Edgewater Police	Greater Eagle FPD*	Sheridan Police	Westminster Police

## Employers of the Statewide Money Purchase Plan

Ault FPD	Copper Mountain Fire	Jefferson-Como FPD	Platteville-Gilcrest FPD
Bayfield Police	Denver Police	Kiowa FPD*	Rocky Mountain FPD
Black Hawk Fire	Eaton FPD	Kremmling FPD	Sable-Altura FPD
Briggsdale FPD*	Elizabeth FPD	Lake George FPD*	Salida Fire*
Brighton (Greater) FPD	Elizabeth Police	Las Animas Police*	Southern Park County FPD*
Central City Fire	Elk Creek FPD*	Leadville Police	Telluride FPD
Central City Police*	Fairmont FPD	Louviers FPD*	Timberline FPD
Cimarron Hills FPD	Falcon FPD	Manassa Police*	Upper Pine River FPD
Clear Creek Fire Authority	Federal Heights Fire	Mountain View Police	West Routt FPD
Colorado Centre	Galeton FPD*	Mountain Village Police	Windsor Severance FPD
Metro District Fire	Genesee FPD*	Nederland FPD	
Colorado River FPD	Grand Valley FPD	Pagosa FPD	
Colorado Springs Police	Greater Eagle FPD	Platteville Police*	

## Employers of Affiliated Statewide Death &amp; Disability Supplemental Social Security Plan

Debeque Police	Holyoke Police	Kersey Police
Haxtun Police	Johnstown Police	Springfield Police

\* No active members at December 31, 2017

Employers

Employers with Active Members in the Statewide Death & Disability Plan

Adams County FPD	Columbine Valley Police	Garden City Police	Longmont Police
Alamosa Police	Commerce City Police	Gateway-Unaweeep FPD	Los Pinos FPD
Alma Police	Copper Mountain Fire	Genesee FPD	Loveland FRA
Antonito Police	Cortez FPD	Georgetown Police	Loveland Police
Arvada FPD	Cortez Police	Glendale Police	Lower Valley FPD
Arvada Police	Crested Butte FPD	Glenwood Springs Fire	Lyons FPD
Aspen FPD	Cripple Creek Fire	Glenwood Springs Police	Manassa Police
Aspen Police	Cunningham FPD	Golden Fire	Manitou Springs Fire
Ault FPD	Dacono Police	Golden Police	Manitou Springs Police
Ault Police	Debeque FPD	Granada Police	Mead Police
Aurora Fire	Del Norte Police	Grand FPD #1	Milliken Police
Aurora Police	Delta Police	Grand Junction Fire	Monte Vista Police
Avon Police	Denver Fire	Grand Junction Police	Montrose FPD
Basalt & Rural FPD	Denver Police	Grand Lake FPD	Montrose Police
Basalt Police	Dillon Police	Grand Valley FPD	Mountain View FPD
Bayfield Police	Dinosaur Police	Greater Eagle FPD	Mountain View Police
Bennett FPD #7	Donald Wescott FPD	Greeley Fire	Mountain Village Police
Berthoud FPD	Durango FPD	Greeley Police	Nederland FPD
Beulah Fire Protection & Ambulance District	Durango Police	Green Mountain	North Fork FPD
Big Sandy FPD	Eagle River FPD	Falls-Chipita Park FPD	North Metro Fire Rescue
Black Forest Fire Rescue	East Grand FPD #4	Greenwood Village Police	North Routt FPD
Black Hawk Fire	Eaton FPD	Gypsum FPD	Northeast Teller County FPD
Blanca Police	Edgewater Police	Hartsel FPD	Northglenn Police
Boulder Fire	Elizabeth FPD	Hudson FPD	North-West FPD
Boulder Mountain FPD	Elizabeth Police	Hugo Police	Nunn Police
Boulder Police	Elk Creek FPD	Idaho Springs Police	Oak Creek FPD
Boulder Rural FPD	Empire Police	Ignacio Police	Oak Creek Police
Briggsdale FPD	Englewood Police	Indian Hills FPD	Olathe Police
Brighton (Greater) FPD	Erie Police	Inter-Canyon FPD	Pagosa FPD
Brighton Police	Estes Valley FPD	Jefferson-Como FPD	Pagosa Springs Police
Broadmoor FPD	Evans FPD	Kiowa FPD	Palisade Fire
Broomfield Police	Evans Police	Kremmling FPD	Palisade Police
Brush Police	Evergreen FPD	La Jara Police	Palmer Lake Fire
Buena Vista Fire	Fairmount FPD	La Junta Fire	Palmer Lake Police
Buena Vista Police	Fairplay Marshalls Police	La Junta Police	Paonia Police
Byers FPD #9	Falcon FPD	La Salle FPD	Parachute Police
Canon City Area FPD	Federal Heights Fire	La Salle Police	Parker Police
Canon City Police	Federal Heights Police	La Veta Police	Plateau Valley FPD
Carbondale & Rural FPD	Firestone Police	Lafayette Fire	Platte Canyon FPD
Castle Rock Fire	Florence Police	Lafayette Police	Platte Valley FPD
Center Police	Foothills Fire & Rescue	Lake Dillon FPD	Platteville Police
Central City Fire	Fort Collins Fire	Lake George FPD	Platteville-Gilcrest FPD
Chaffee County FPD	Fort Collins Police	Lakeside Police	Pleasant View Metro Fire District
Cherry Hills Village Police	Fort Lewis-Mesa FPD	Lamar Fire	Poudre Fire Authority
Cimarron Hills FPD	Fort Lupton FPD	Lamar Police	Pueblo Fire
Clear Creek Fire Authority	Fort Lupton Police	Larkspur FPD	Pueblo Police
Clifton FPD	Fort Morgan Police	Leadville Fire	Pueblo Rural FPD
Coal Creek Canyon FPD	Fountain Fire	Leadville Police	Pueblo West Metro Fire
Collbran Marshals	Fountain Police	Lefthand FPD	Rangely Police
Colorado Centre Metro District Fire	Fowler Police	Littleton Fire	Rattlesnake FPD
Colorado River FPD	Franktown FPD	Littleton Police	Red White & Blue FPD
Colorado Springs Fire	Frederick Firestone FPD	Lochbuie Police	Rifle Police
Colorado Springs Police	Frisco Police	Log Lane Village Police	Rio Blanco FPD
	Front Range Fire Rescue FPD	Lone Tree Police	Rocky Ford Fire
	Fruita Police	Longmont Fire	



**Employers with Active Members in the Statewide Death & Disability Plan**

Rocky Ford Police	South Adams County FPD	Stratton Police	Wellington FPD
Rocky Mountain FPD	South Fork FPD	Telluride FPD	West Douglas County FPD
Rye FPD	South Fork Police	Telluride Police	West Metro FPD
Sable-Altura FPD	South Metro Fire Rescue	Thornton Fire	West Routt FPD
Salida Fire	Southeast Weld FPD	Thornton Police	Westminster Fire
Salida Police	Southern Park County FPD	Timberline FPD	Wheat Ridge Police
Sanford Police	Steamboat Springs Fire	Tri-Lakes Monument FPD	Wiggins Police
Security FPD	Steamboat Springs Police	Trinidad Fire	Windsor Severance FPD
Sheridan Police	Sterling Fire	Trinidad Police	Woodland Park Police
Silt Police	Sterling Police	Upper Pine River FPD	Wray Police
Snowmass Village Police	Strasburg FPD #8	Vail Fire	Yuma Police
Snowmass Wildcat FPD	Stratmoor Hills FPD	Vail Police	

Benefit and Refund Deductions from Fiduciary Net Position by Type

**Affiliated Local Plans**

Type of Benefit	2017	2016	2015	2014
Age and service benefits:				
Retirees & Survivors	\$168,478,600	\$168,257,048	\$165,621,180	\$164,721,406
Disability	0	0	0	0
<b>Total Benefits</b>	<b>\$168,478,600</b>	<b>\$168,257,048</b>	<b>\$165,621,180</b>	<b>\$164,721,406</b>

**Type of Refund**

Contributions (including interest earned)	\$140,874	\$918,003	\$201,899	\$521,475
<b>Total Refunds</b>	<b>\$140,874</b>	<b>\$918,003</b>	<b>\$201,899</b>	<b>\$521,475</b>

**Statewide Death & Disability Plan**

Type of Benefit	2017	2016	2015	2014
Age and service benefits:				
Retirees & Survivors	\$0	\$0	\$0	\$0
Disability	28,157,074	26,128,642	24,096,515	22,707,843
<b>Total Benefits</b>	<b>\$28,157,074</b>	<b>\$26,128,642</b>	<b>\$24,096,515</b>	<b>\$22,707,843</b>

**Type of Refund**

Contributions (including interest earned)	\$0	\$59,172	\$0	\$12,647
<b>Total Refunds</b>	<b>\$0</b>	<b>\$59,172</b>	<b>\$0</b>	<b>\$12,647</b>

**Defined Benefit System | Statewide Defined Benefit Plan**

Type of Benefit	2017	2016	2015	2014
Age and service benefits:				
Retirees & Survivors	\$65,977,013	\$60,019,888	\$53,129,403	\$47,655,798
Disability	0	0	0	0
<b>Total Benefits</b>	<b>\$65,977,013</b>	<b>\$60,019,888</b>	<b>\$53,129,403</b>	<b>\$47,655,798</b>

**Type of Refund**

Contributions (including interest earned)	\$2,187,599	\$1,813,180	\$1,763,962	\$1,848,698
<b>Total Refunds</b>	<b>\$2,187,599</b>	<b>\$1,813,180</b>	<b>\$1,763,962</b>	<b>\$1,848,698</b>

Benefit and Refund Deductions from Fiduciary Net Position by Type

2013	2012	2011	2010	2009	2008
\$165,121,187	\$165,552,566	\$162,511,376	\$164,220,145	\$157,644,750	\$152,270,531
0	0	0	0	0	0
<b>\$165,121,187</b>	<b>\$165,552,566</b>	<b>\$162,511,376</b>	<b>\$164,220,145</b>	<b>\$157,644,750</b>	<b>\$152,270,531</b>

\$848,221	\$315,017	\$584,749	\$1,823,003	\$5,045,932	\$2,958,380
<b>\$848,221</b>	<b>\$315,017</b>	<b>\$584,749</b>	<b>\$1,823,003</b>	<b>\$5,045,932</b>	<b>\$2,958,380</b>

2013	2012	2011	2010	2009	2008
\$0	\$0	\$0	\$0	\$0	\$0
21,018,988	19,482,152	18,217,570	17,376,644	15,995,412	14,886,707
<b>\$21,018,988</b>	<b>\$19,482,152</b>	<b>\$18,217,570</b>	<b>\$17,376,644</b>	<b>\$15,995,412</b>	<b>\$14,886,707</b>

\$32,919	\$0	\$47,192	\$58,440	\$14,242	\$0
<b>\$32,919</b>	<b>\$0</b>	<b>\$47,192</b>	<b>\$58,440</b>	<b>\$14,242</b>	<b>\$0</b>

2013	2012	2011	2010	2009	2008
\$42,442,562	\$31,959,003	\$28,284,899	\$25,448,990	\$13,547,142	\$10,892,803
0	0	0	0	0	0
<b>\$42,442,562</b>	<b>\$31,959,003</b>	<b>\$28,284,899</b>	<b>\$25,448,990</b>	<b>\$13,547,142</b>	<b>\$10,892,803</b>

\$2,796,217	\$1,616,336	\$1,882,112	\$1,493,913	\$1,927,732	\$3,621,108
<b>\$2,796,217</b>	<b>\$1,616,336</b>	<b>\$1,882,112</b>	<b>\$1,493,913</b>	<b>\$1,927,732</b>	<b>\$3,621,108</b>

**Benefit and Refund Deductions from Fiduciary Net Position by Type**

**Defined Benefit System | Statewide Hybrid Plan - Defined Benefit Component**

<b>Type of Benefit</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Age and service benefits:				
Retirees & Survivors	\$1,493,664	\$1,191,766	\$953,099	\$752,330
Disability	0	0	0	0
<b>Total Benefits</b>	<b>\$1,493,664</b>	<b>\$1,191,766</b>	<b>\$953,099</b>	<b>\$752,330</b>

**Type of Refund**

Contributions (including interest earned)	\$27,870	\$17,151	\$18,365	\$35,373
<b>Total Refunds</b>	<b>\$27,870</b>	<b>\$17,151</b>	<b>\$18,365</b>	<b>\$35,373</b>

**Defined Benefit System | Colorado Springs New Hire Pension Plan – Combined Police & Fire**

<b>Type of Benefit</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Age and service benefits:				
Retirees & Survivors	\$20,867,505	\$18,988,354	\$16,350,538	\$14,334,086
Disability	0	0	0	0
<b>Total Benefits</b>	<b>\$20,867,505</b>	<b>\$18,988,354</b>	<b>\$16,350,538</b>	<b>\$14,334,086</b>

**Type of Refund**

Contributions (including interest earned)	\$177,858	\$250,586	\$99,734	\$443,707
<b>Total Refunds</b>	<b>\$177,858</b>	<b>\$250,586</b>	<b>\$99,734</b>	<b>\$443,707</b>

Benefit and Refund Deductions from Fiduciary Net Position by Type



2013	2012	2011	2010	2009	2008
\$525,814	\$449,818	\$317,469	\$236,346	\$282,930	\$155,143
0	0	0	0	0	0
<b>\$525,814</b>	<b>\$449,818</b>	<b>\$317,469</b>	<b>\$236,346</b>	<b>\$282,930</b>	<b>\$155,143</b>

\$36,845	\$3,097	\$14,990	\$5,069	\$232,027	\$78,716
<b>\$36,845</b>	<b>\$3,097</b>	<b>\$14,990</b>	<b>\$5,069</b>	<b>\$232,027</b>	<b>\$78,716</b>



2013	2012	2011	2010	2009	2008
\$13,463,745	\$12,832,278	\$11,920,608	\$10,259,279	\$8,754,606	\$6,982,005
0	0	0	0	0	0
<b>\$13,463,745</b>	<b>\$12,832,278</b>	<b>\$11,920,608</b>	<b>\$10,259,279</b>	<b>\$8,754,606</b>	<b>\$6,982,005</b>

\$297,196	\$353,856	\$479,250	\$384,736	\$0	\$376,799
<b>\$297,196</b>	<b>\$353,856</b>	<b>\$479,250</b>	<b>\$384,736</b>	<b>\$0</b>	<b>\$376,799</b>

## Benefit and Refund Deductions from Fiduciary Net Position by Type

## Fire &amp; Police Members' Statewide Money Purchase Plan

Type of Benefit	2017	2016	2015	2014
Age and service benefits:	<i>Age and Service benefits are not calculated for this plan.</i>			
<b>Type of Refund</b>				
Contributions (including interest earned)	\$304,189	\$247,528	\$245,503	\$300,406
<b>Total Refunds</b>	<b>\$304,189</b>	<b>\$247,528</b>	<b>\$245,503</b>	<b>\$300,406</b>

## Self-Directed Assets for Affiliated Local Plans and Defined Benefit System Plans

Type of Benefit	2017	2016	2015	2014
Age and service benefits:	<i>Age and Service benefits are not calculated for this plan.</i>			
<b>Type of Refund</b>				
Contributions (including interest earned)	\$127,314,764	\$41,738,925	\$62,813,697	\$39,891,560
<b>Total Refunds</b>	<b>\$127,314,764</b>	<b>\$41,738,925</b>	<b>\$62,813,697</b>	<b>\$39,891,560</b>

## IRC 457 Deferred Compensation Plan

Type of Benefit	2017	2016	2015	2014
Age and service benefits:	<i>Age and Service benefits are not calculated for this plan.</i>			
<b>Type of Refund</b>				
Contributions (including interest earned)	\$5,463,548	\$7,220,110	\$5,136,008	\$5,433,841
<b>Total Refunds</b>	<b>\$5,463,548</b>	<b>\$7,220,110</b>	<b>\$5,136,008</b>	<b>\$5,433,841</b>

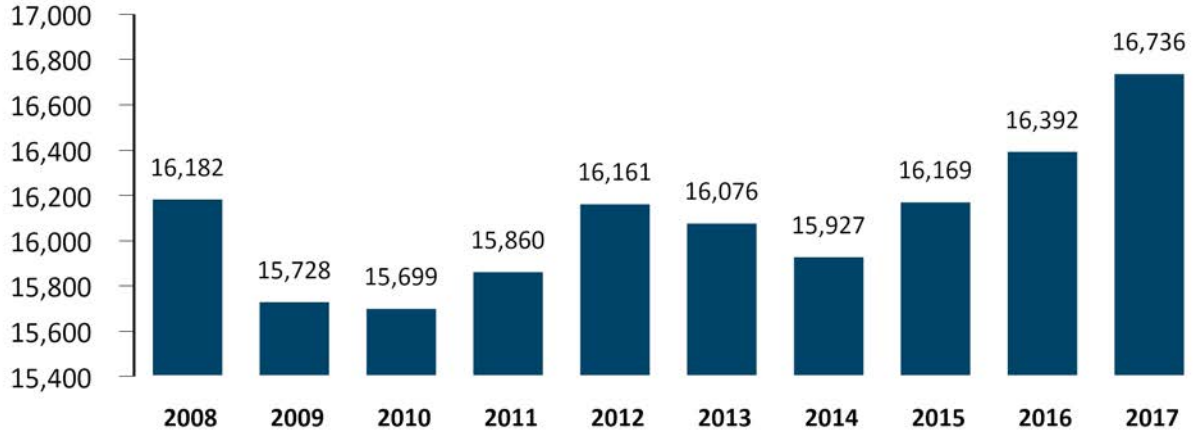
Benefit and Refund Deductions from Fiduciary Net Position by Type

2013	2012	2011	2010	2009	2008
\$951,163	\$1,067,020	\$175,587	\$402,564	\$262,920	\$500,040
<b>\$951,163</b>	<b>\$1,067,020</b>	<b>\$175,587</b>	<b>\$402,564</b>	<b>\$262,920</b>	<b>\$500,040</b>

2013	2012	2011	2010	2009	2008
\$42,699,246	\$42,317,300	\$67,711,031	\$27,588,789	\$22,942,996	\$20,852,584
<b>\$42,699,246</b>	<b>\$42,317,300</b>	<b>\$67,711,031</b>	<b>\$27,588,789</b>	<b>\$22,942,996</b>	<b>\$20,852,584</b>

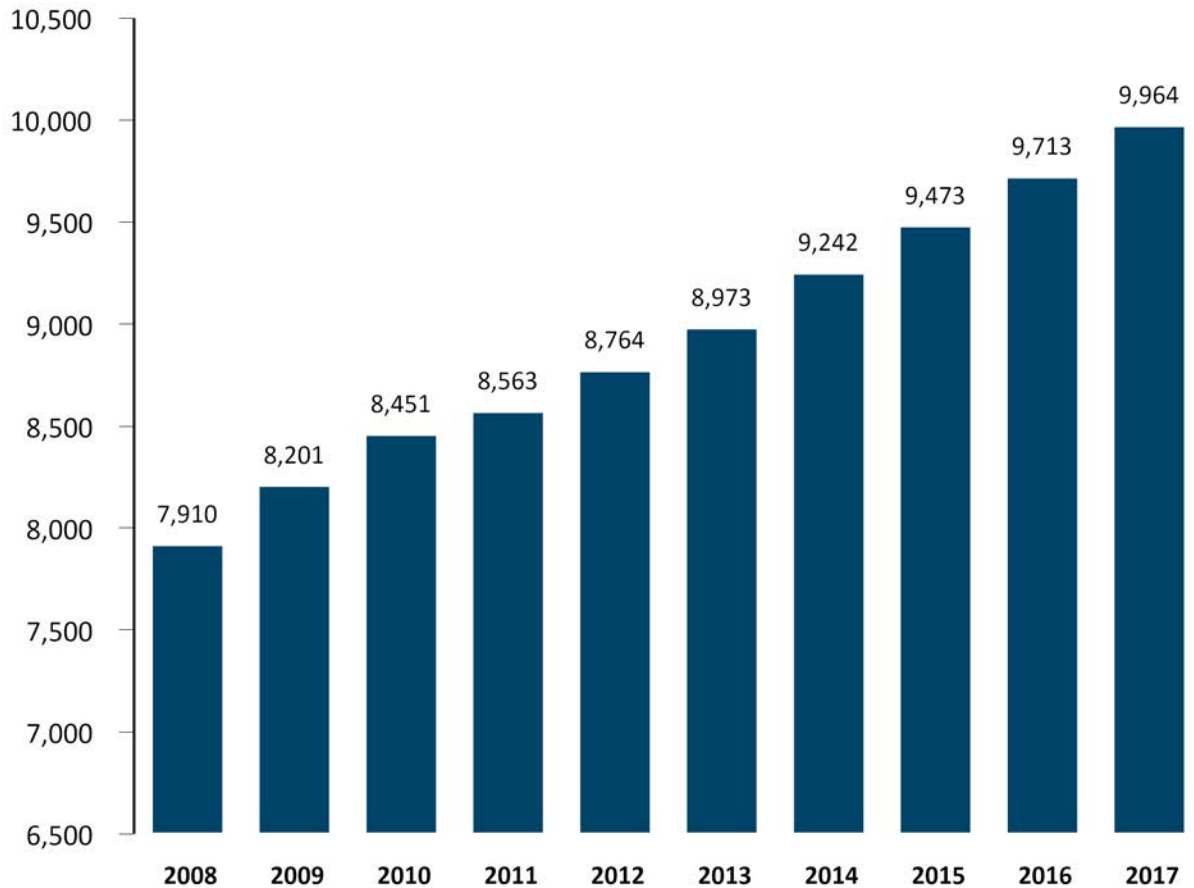
2013	2012	2011	2010	2009	2008
\$4,254,537	\$4,457,433	\$4,792,208	\$4,837,214	\$1,909,744	\$1,821,135
<b>\$4,254,537</b>	<b>\$4,457,433</b>	<b>\$4,792,208</b>	<b>\$4,837,214</b>	<b>\$1,909,744</b>	<b>\$1,821,135</b>

■ FPPA Active Members by Plan Type (2008-2017)



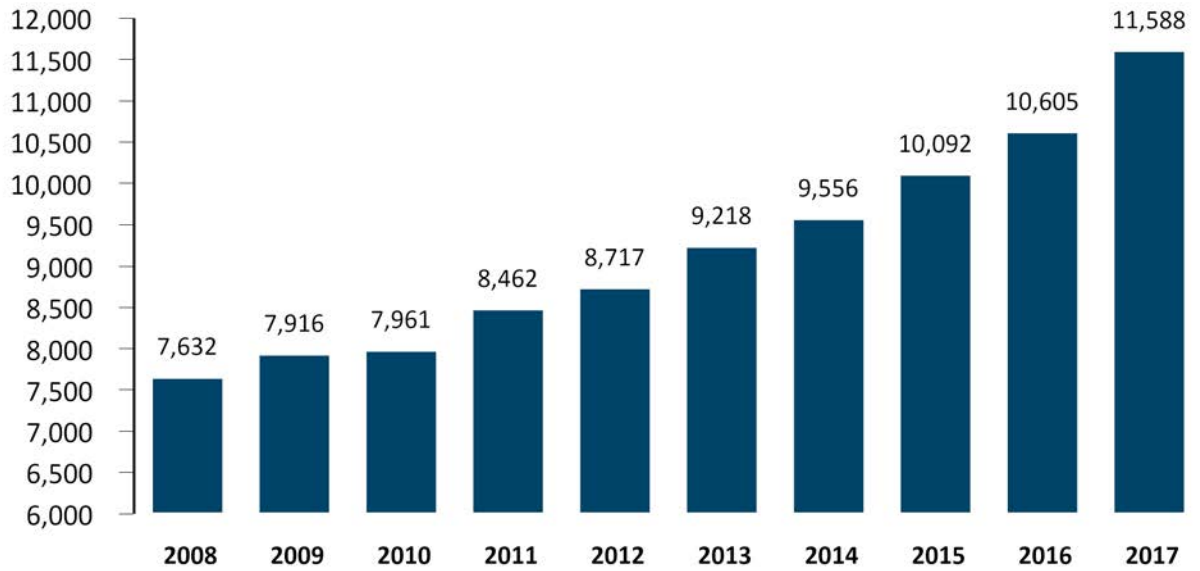
Fire & Police Members' Statewide Money Purchase Plan	101	91	104	125	161	154	160	133	125	118
Statewide Death & Disability Plan only	4,700	4,568	4,492	4,212	4,228	4,252	4,224	4,311	4,393	4,128
Affiliated Local Plans - Volunteer Firefighters	4,324	3,862	3,985	4,008	4,139	3,687	3,412	3,243	3,074	2,883
Defined Benefit System - Statewide Defined Benefit Plan	5,529	5,673	5,646	6,056	6,212	6,563	6,772	7,237	7,616	8,433
Defined Benefit System - Statewide Defined Benefit Plan DROP	95	126	152	215	236	290	317	313	304	294
Defined Benefit System - Statewide Hybrid Plan	365	421	403	477	470	458	419	363	346	371
Defined Benefit System - Statewide Hybrid Plan DROP	3	2	2	2	2	4	6	5	7	6
Defined Benefit System - Colorado Springs New Hire Pension Plan	846	801	748	616	595	573	539	489	440	396
Defined Benefit System - Colorado Springs New Hire Pension Plan DROP	65	62	77	81	67	57	54	64	80	101
Affiliated Local Plans - Old Hire	60	39	18	10	9	7	3	3	3	3
Affiliated Local Plans - Old Hire DROP	94	83	72	58	42	31	21	8	4	3
<b>TOTAL MEMBERS</b>	<b>16,182</b>	<b>15,728</b>	<b>15,699</b>	<b>15,860</b>	<b>16,161</b>	<b>16,076</b>	<b>15,927</b>	<b>16,169</b>	<b>16,392</b>	<b>16,736</b>



**FPPA Retired Members by Plan Type (2008-2017)**


Statewide Death & Disability Plan only	784	812	853	881	928	968	1,020	1,063	1,111	1,185
Affiliated Local Plans - Volunteer Firefighters	2,990	3,165	3,282	3,339	3,409	3,495	3,570	3,628	3,647	3,692
Defined Benefit System - Statewide Defined Benefit Plan	423	463	528	589	687	802	930	1,073	1,220	1,376
Defined Benefit System - Statewide Hybrid Plan	154	180	193	187	183	185	205	200	211	216
Defined Benefit System - Colorado Springs New Hire Pension Plan	152	188	212	239	265	286	314	348	381	395
Affiliated Local Plans - Old Hire	3,370	3,346	3,319	3,275	3,229	3,159	3,118	3,061	2,992	2,942
Fire & Police Members' Statewide Money Purchase Plan	37	47	64	53	63	78	85	100	151	158
<b>TOTAL MEMBERS</b>	<b>7,910</b>	<b>8,201</b>	<b>8,451</b>	<b>8,563</b>	<b>8,764</b>	<b>8,973</b>	<b>9,242</b>	<b>9,473</b>	<b>9,713</b>	<b>9,964</b>

■ Defined Benefit System Members by Status (2008-2017)



**Defined Benefit System | Statewide Defined Benefit Plan**

Terminated Vested	164	167	170	165	171	187	204	216	716	1,075
Retired & Beneficiaries	259	296	358	424	516	615	726	857	1,220	1,133
Non-Vested Actives	2,300	2,139	1,841	1,792	1,686	1,877	2,071	2,499	2,381	2,777
Partially Vested Actives	2,918	3,208	3,467	3,899	4,161	4,355	4,352	4,360	4,128	4,399
Fully Vested Actives	311	326	338	365	365	331	349	378	391	425
DROP Actives	95	126	152	215	236	290	317	313	304	294

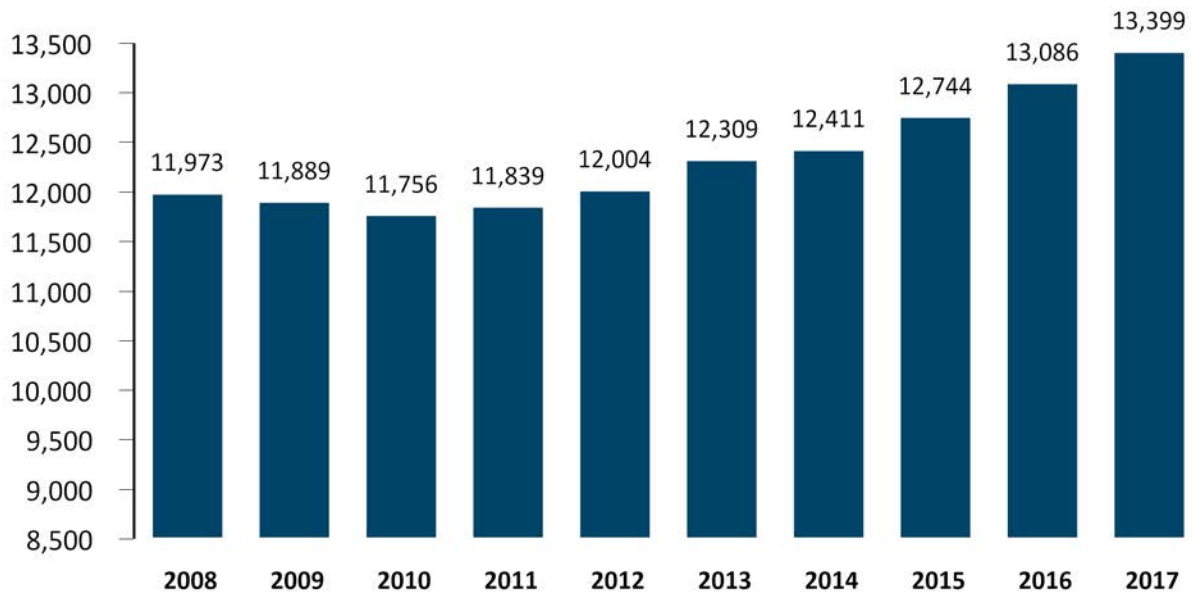
**Defined Benefit System | Statewide Hybrid Plan**

Retired, Beneficiaries, & Terminated Vested	154	180	193	187	183	185	205	200	234	248
Non-Vested Actives	72	75	55	80	54	52	36	48	24	32
Partially Vested Actives	78	73	82	104	126	119	127	120	251	251
Fully Vested Actives	215	273	266	293	290	287	256	195	48	56
DROP Actives	3	2	2	2	2	4	6	5	7	6

**Defined Benefit System | Colorado Springs New Hire Pension Plan – Combined Police & Fire**

Retired, Beneficiaries, & Terminated Vested	152	188	212	239	265	286	314	348	393	405
Non-Vested Actives	409	349	268	174	114	90	45	16	0	0
Partially Vested Actives	380	405	435	399	431	426	424	424	383	341
Fully Vested Actives	57	47	45	43	50	57	70	49	45	45
DROP Actives	65	62	77	81	67	57	54	64	80	101
<b>TOTAL MEMBERS</b>	<b>7,632</b>	<b>7,916</b>	<b>7,961</b>	<b>8,462</b>	<b>8,717</b>	<b>9,218</b>	<b>9,556</b>	<b>10,092</b>	<b>10,605</b>	<b>11,588</b>

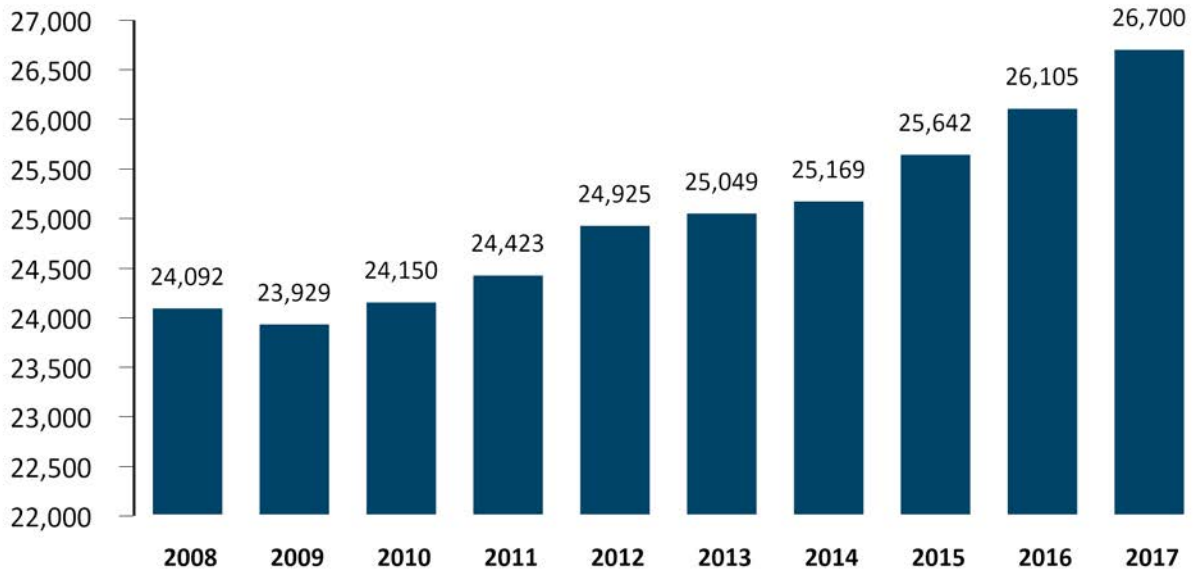
■ Members by Status (2008-2017)



Statewide Death & Disability Plan

Disabled Retirees & Beneficiaries	784	812	853	881	928	968	1,020	1,063	1,111	1,185
Non-Vested Actives	11,189	11,077	10,903	10,958	11,076	11,341	11,391	11,681	11,975	12,214
<b>TOTAL MEMBERS</b>	<b>11,973</b>	<b>11,889</b>	<b>11,756</b>	<b>11,839</b>	<b>12,004</b>	<b>12,309</b>	<b>12,411</b>	<b>12,744</b>	<b>13,086</b>	<b>13,399</b>

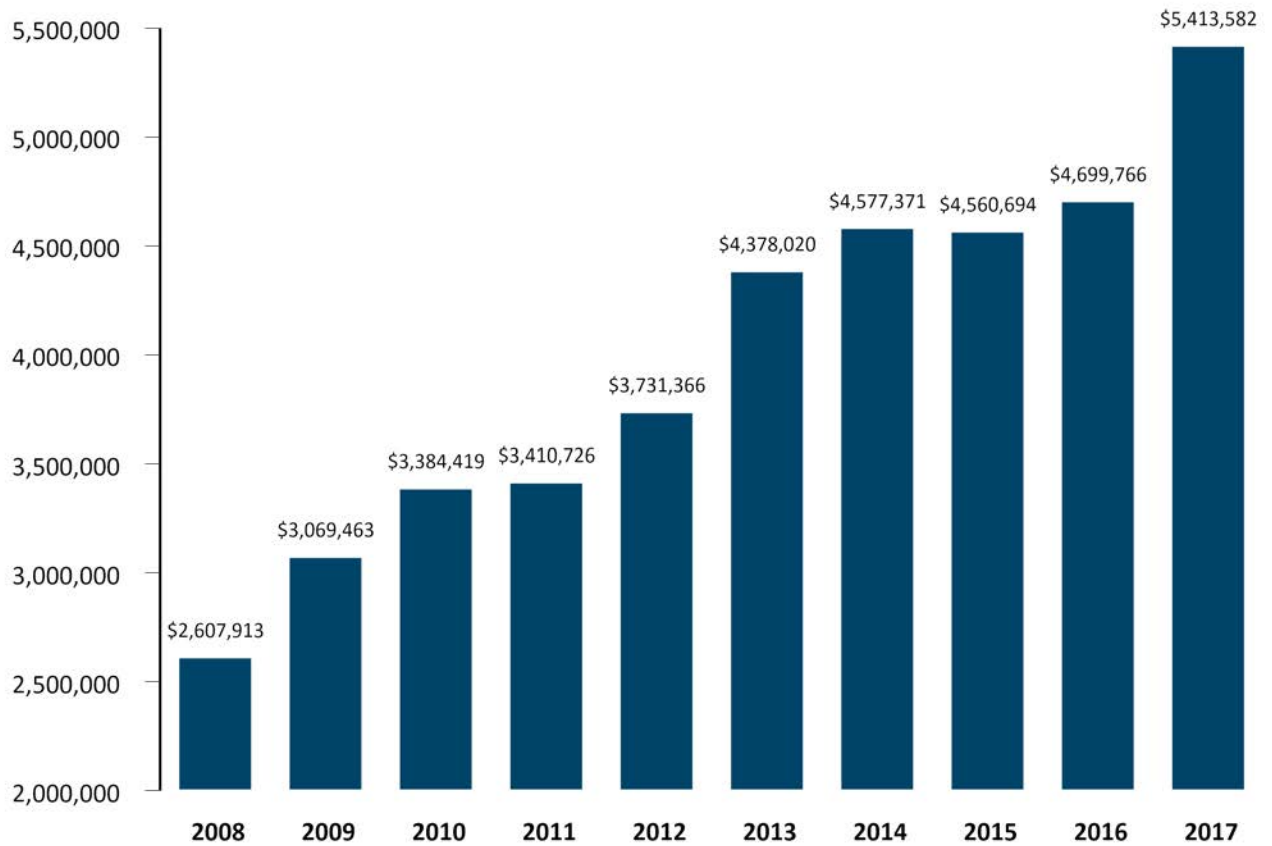
■ FPPA All Plans Active and Retired Members by Occupation (2008-2017)



Retired Firefighters	5,257	5,487	5,690	5,784	6,010	6,062	6,247	6,401	6,537	6,675
Active Firefighters	9,772	9,317	9,363	9,550	9,838	9,599	9,390	9,388	9,481	9,514
Retired Police	2,646	2,704	2,748	2,776	2,729	2,884	2,967	3,041	3,143	3,241
Active Police	6,344	6,309	6,228	6,201	6,213	6,365	6,431	6,636	6,765	7,069
Retired Administrative	7	10	13	3	25	27	28	31	33	48
Active Administrative	66	102	108	109	110	112	106	145	146	153
<b>TOTAL MEMBERS</b>	<b>24,092</b>	<b>23,929</b>	<b>24,150</b>	<b>24,423</b>	<b>24,925</b>	<b>25,049</b>	<b>25,169</b>	<b>25,642</b>	<b>26,105</b>	<b>26,700</b>

**■ Growth of Total Pension Fund Position (2008-2017)**

(Total \$ in Thousands 000's)



Revenues/Inflows	\$188,406	\$180,948	\$172,896	\$305,993	\$215,785	\$377,473	\$216,895	\$249,166	\$227,733	\$450,142
Withdrawals/Outflows	(220,614)	(234,719)	(260,644)	(304,386)	(288,765)	(301,746)	(306,541)	(338,222)	(335,642)	(429,224)
Return on Investments	(1,072,758)	515,321	402,704	24,700	393,620	570,927	288,997	72,379	246,981	692,898
Beginning Net Position	3,712,879	2,607,913	3,069,463	3,384,419	3,410,726	3,731,366	4,378,020	4,577,371	4,560,694	4,699,766
<b>Total \$ in thousands (000's)</b>	<b>\$2,607,913</b>	<b>\$3,069,463</b>	<b>\$3,384,419</b>	<b>\$3,410,726</b>	<b>\$3,731,366</b>	<b>\$4,378,020</b>	<b>\$4,577,371</b>	<b>\$4,560,694</b>	<b>\$4,699,766</b>	<b>\$5,413,582</b>

**■ Schedule of Retired Members by Type of Benefit as of December 31, 2017**

	Monthly Benefit Amount						Total
	<=\$500	\$501-\$1,000	\$1,001-\$1,500	\$1,501-\$2,000	\$2,001-\$2,500	>\$2,501	
<b>Statewide Death &amp; Disability Plan</b>							
Occupational Disability	22	83	184	183	139	189	800
Occupational Disability-Survivor	21	10	13	6	0	2	52
Total Disability	1	1	2	2	9	70	85
Total Disability-Survivor	1	5	8	11	6	23	54
Survivor of Active	6	6	19	38	28	23	120
<b>*Fire &amp; Police Members' Statewide Money Purchase Plan</b>							
*Money Purchase Only	N/A	N/A	N/A	N/A	N/A	N/A	151
<b>Defined Benefit System - Statewide Defined Benefit Plan</b>							
Retired	2	1	5	9	19	469	505
Vested	36	160	115	65	83	202	661
Retired-Survivor	8	15	8	4	5	14	54
<b>Defined Benefit System - Statewide Hybrid Plan</b>							
*Money Purchase Only	N/A	N/A	N/A	N/A	N/A	N/A	174
Retired	0	0	0	1	2	19	22
Vested	1	3	2	2	2	5	15
Retired-Survivor	0	0	0	0	0	0	0
<b>Defined Benefit System - Colorado Springs New Hire Pension Plan</b>							
Retired	0	0	1	3	4	188	196
Vested	0	7	43	23	14	82	169
Retired-Survivor	1	4	4	4	1	2	16
<b>Affiliated Local Plans</b>							
Disability Retirement	5	5	1	0	1	630	642
Disability-Survivor	8	6	2	8	66	242	332
Retired	1,011	461	25	14	35	1,485	3,031
Vested	1,499	290	8	3	0	60	1,860
Retired-Survivor	377	44	22	32	69	230	774
<b>Totals</b>	<b>2,999</b>	<b>1,101</b>	<b>462</b>	<b>408</b>	<b>483</b>	<b>3,935</b>	<b>9,713</b>

\* Details not available for members in the Money Purchase plans.



**FPPA**

Fire & Police Pension Association of Colorado



[www.FPPAco.org](http://www.FPPAco.org)

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