A Component Unit of the City of Sacramento, California

Annual Financial Report

Fiscal Year Ended June 30, 2017 (With Comparative Totals as of June 30, 2016)



A Component Unit of the City of Sacramento, California Fiscal Year Ended June 30, 2017

TABLE OF CONTENTS

	Page
Introductory Section:	
Letter to the Members of the Sacramento City Employees'	
Retirement System and the Sacramento City Council	i-x
Financial Sections:	
Independent Auditors' Report	1-2
Management's Discussion and Analysis	
(Required Supplementary Information)	
Basic Financial Statements:	
Statement of Net Position	7
Statement of Changes in Plan Net Position	8
Notes to the Basic Financial Statements	
Required Supplementary Information:	
Schedule of Changes in Net Pension Liability and Related Ratios	21
Schedule of Employer Contributions	
Schedule of Investment Returns	
Additional Information:	
Listing of Investments	
Actuarial Section:	
Actuarial Valuation	Appendix A

A Component Unit of the City of Sacramento Letter to the Members of the Sacramento City Employees' Retirement System and the Sacramento City Council Fiscal Year Ended June 30, 2017

December 22, 2017

TO: Members of the Sacramento City Employees' Retirement System Members of the Sacramento City Council

Transmitted herewith is the annual report of the Administration, Investment and Fiscal Management Board (Board) for the Sacramento City Employees' Retirement System (SCERS or System). This report addresses Board membership, history of the System, investment objectives, asset allocation, financial results, members' interest credit, fund performance, administration highlights, together with reports by an independent auditor and actuary, all as of the close of the 2017 Fiscal Year, or June 30, 2017.

The Annual Financial Report consists of three main sections: an <u>Introductory Section</u> represented by this letter of transmittal and the identification of the System's financial governing body, and the administrative and consulting services utilized by SCERS; the <u>Financial Section</u> which contains the Independent Auditor's Report; Management's Discussion and Analysis (MD&A), and the financial statements of SCERS; and the <u>Actuarial Section</u> which contains the independent consulting actuary's valuation along with related actuarial data and statements.

BOARD MEMBERSHIP

As set out in the Sacramento City Charter, the Board is comprised of five members, three of whom are City officials (or their designees), and two of whom are public citizen members appointed by the City Council. The Sacramento City Manager, City Treasurer and Director of Finance are the City officials designated to serve on this Board. By City Charter, the public citizen members must be residents of the City of Sacramento, not connected with City government, and at least one of these members must be qualified by training and experience in the management and investment of funds.

The members of the Board as of the close of the fiscal year are as follows:

<u>City Officials</u> Howard Chan, City Manager (Dennis Kauffman, Designee) John Colville, City Treasurer Leyne Milstein, Director of Finance

<u>Public Citizen Members</u> David DeCamilla - President, DeCamilla Capital Management Manuel Leon – State of California

David DeCamilla was re-elected by the Board in January 2010 to serve as Board Chair, a position he has held since January 1988. Mr. DeCamilla has served on the Board since February 1985, starting with a partial term as replacement for a departing boardmember and continuously in full term appointments from February, 1998 to the present.

A Component Unit of the City of Sacramento Letter to the Members of the Sacramento City Employees' Retirement System and the Sacramento City Council Fiscal Year Ended June 30, 2017

Manuel Leon, an employee of the State of California, State Senate, was appointed to the Board in February, 2016 as a public citizen Board member and has served as the Vice-Chair since April, 2016.

John Colville, City Treasurer, was appointed to his current position in February, 2017 and assumed his position on the Board in February, 2016 upon his appointment as Interim City Treasurer. Prior to his appointment as City Treasurer, Mr. Colville served as Interim City Treasurer and prior to that, as Chief Investment Officer for the City. As Chief Investment Officer, Mr. Colville supervised the investment activities of the City Treasurer's Office, including the investment of City and SCERS funds. Mr. Colville has been a City employee since 2004.

Howard Chan, City Manager, was appointed to his current position in Feburary, 2017 and assumed the Board membership position at that time. Mr. Chan appointed Dennis Kauffman, Finance Operations Manager as his designee on the Board. Mr. Kauffman was appointed to the position of Accounting Manager in 2014 and has been a City employee since 2000.

Leyne Milstein, Finance Director, assumed Board membership at the time she was appointed to her current position in October 2008. Prior to this appointment, Ms. Milstein held the position of Budget Manager and has been a City employee since 2005.

<u>HISTORY</u>

SCERS is a defined benefit plan in which retirement benefits for City member employees are based upon age, final compensation and length of service. City employee members make contributions to the System and, until 1993, the City made a normal contribution which was a percentage of total City payrolls. These cash payments are held in trust and invested to meet the retirement benefits of members. However, if these invested assets prove inadequate to meet the defined benefits, the City of Sacramento must contribute additional monies to pay benefits. Between fiscal year 1988/1989 and fiscal year 2006/2007, the System's anticipated liabilities were fully funded or in an actuarial surplus condition, and the City was not required to make contributions to the System during that time period. The City has been required to make contributions from fiscal year 2007/2008 through the present.

In 1977, with the passage of Measure E, SCERS became a "closed" system, i.e. there would be no additional employees participating in the plan. Since that time, all full-time and eligible part-time employees of the City participate in the California Public Employees' Retirement System (CalPERS) rather than SCERS. In 1977 the average age of SCERS active members was 36 years.

In June 1989, the voters of Sacramento approved the transfer of SCERS active safety members to CalPERS. Effective December 30, 1989, SCERS active safety members were transferred to CalPERS with a cash transfer of \$103.3 million in January 1990.

As of June 30, 2017, the average age of SCERS active members is 63.2 years and the average years of service is 33.9 years. As of said date, there are 16 active miscellaneous members and a total of 1,085 plan participants.

Pursuant to the Sacramento City Charter, the Board has exclusive authority to invest and manage the System's funds. The Board, in turn, has selected the Sacramento City Treasurer and Treasurer's Office

A Component Unit of the City of Sacramento Letter to the Members of the Sacramento City Employees' Retirement System and the Sacramento City Council Fiscal Year Ended June 30, 2017

investment personnel to conduct daily investment activities consistent with Board-approved policies and direction. The City Treasurer's office also serves as staff to the Board.

INVESTMENT OBJECTIVES

The overarching goal of the SCERS investment program is to utilize prudent investment practices to generate adequate long-term returns that, when combined with employer and employee contributions, will result in sufficient assets to pay the present and future obligations of the System. In furtherance of this goal, the Board has adopted an investment policy that, among other things, authorizes the investment in different asset classes to promote both long-term returns and short-term cash needs. The emphasis on cash income and fixed-income investments is intended to meet current benefit payments on a continuing basis, while equity investments are intended to grow the asset base with dividend income providing additional support for current benefit payments.

The emphasis on interest revenue and dividend income is particularly important for SCERS as there are no new entrants to the system to provide a continuing source of funds to help cover the liabilities of the system. Cash payments for benefits have exceeded contributions since 1989. Accordingly, the cash generation emphasis in SCERS investments is a critical feature required from SCERS status as a "closed" fund, i.e. a fund that has negligible and declining numbers of active, contributing members. Equity investments are permitted to inject an element of growth within the investment portfolios to grow the System's asset base. However, SCERS equity allocations are less than the levels utilized by many other pension plans so that the volatility in valuation inherent in equity investments will not unduly interfere with the ability of the investments to generate an adequate level of cash flow.

The Board annually reviews and approves the SCERS investment policy and forwards the same to the City Council for its approval pursuant to City Charter requirements. All SCERS investments are held by a third-party custodian, except for real estate trust deeds.

ASSET ALLOCATION

Pursuant to the SCERS investment policy, the Board annually reviews its asset allocation, i.e. the allocation of the System's funds to different investment asset classes. On February 22, 2016, the Board established the asset allocation of the investment of SCERS funds during the fiscal year beginning July 1, 2016 and ending June 30, 2017. The Board voted to continue to implement a balanced asset allocation as follows:

Fixed Income	4007
Fixed Bond	40%
<u>Equity</u>	
Large Cap Growth	35%
Equity Income	20%
International	<u>5%</u>
	100%

ACTUARIAL EARNING ASSUMPTION

During the fiscal year ending June 30, 2017, SCERS actuarial earnings assumption was 6.5 percent.

A Component Unit of the City of Sacramento Letter to the Members of the Sacramento City Employees' Retirement System and the Sacramento City Council Fiscal Year Ended June 30, 2017

FINANCIAL RESULTS

The plan net assets of SCERS increased from \$285.170 million to \$288.509 million by the end of fiscal year ended June 30, 2017. This \$3.33 million increase is summarized as follows:

SCERS PLAN NET ASSETS	\$ in thousan d s
Plan net assets 6/30/16	\$ 285,170
Members Contributions	64
City Contributions	8,645
Net Investment Income	27,987
Benefit Payments & Expenses	(32,171)
Plan net assets 6/30/17	\$ 288,509

SCERS' Actuarial Accrued Liability (AAL) as of June 30, 2017 is approximately \$336.8 million. AAL represents the present value of all future benefits that will be paid by SCERS. SCERS funding ratio using market value of assets was 85.6 percent of AAL on June 30, 2017. The funding ratio is defined as that portion of the total AAL for which there are assets available for benefits. As such, the System's actuary indicates that for every dollar of benefits due, SCERS has approximately \$0.85 of assets available for payment.

An actuarial analysis of assets shows the rate of investment return for fiscal 2016-17 was 9.8% percent net of investment expense, which is above the assumed actuarial rate of return of 6.5 percent per annum.

TOTAL FUND PERFORMANCE

As required by the SCERS Investment Policy, the Board retained a third-party firm, namely Segal Rogerscasey (formerly Rogerscasey) to calculate total investment return and measure investment performance. Segal Rogerscasey is an independent fund evaluation and performance measurement service that calculates and reports the investment results of over 2,500 managed pension investment portfolios in the U.S. Segal Rogerscasey calculates the investment results of the managed portfolios and compares such results to the database of predetermined industry benchmarks.

Table 1 below shows investment return results of SCERS for the specified periods ended June 30, 2017:

Tal SCERS Total Rate of Return TOTAL PLAN ASSETS For the periods ended June 30, 2017						
Annualized Compound Returns	1 Yr.	3 Yrs.	10 Yrs.			
SCERS – All Funds	10.17%	5.99	5.57			
Custom Index – Target	8.53	4.60	4.53			
Actuarial Assumption	6.50%	6.50%	6.50%			

A Component Unit of the City of Sacramento Letter to the Members of the Sacramento City Employees' Retirement System and the Sacramento City Council Fiscal Year Ended June 30, 2017

For the fiscal year ended June 30, 2017, the total return of the System's invested assets resulted in a 10.17% overall return. The indicated Custom Index – Target is a blended return amount based on the actual market performance of Segal Rogerscasey benchmarks representing each of the investment asset classes utilized by the System pursuant to the Board's established asset allocation. The System's investment returns exceeded the market-based benchmarks utilized by Segal Rogerscasey for each of the 1-year, 3-year and 10-year time frames. Accordingly, System investments took advantage of the returns the various asset classes provided to the investing marketplace, plus added additional returns for each time period. While the System outperformed the benchmarks, both the 3 yr and 10 yr portfolio and benchmark returns fell short of the 6.5% actuarial rate of return assumptions. Consistent with the "prudent person" standard set forth in the SCERS investment policy, the Board and its investment staff did not attempt to boost performance to the actuarial rate of return by going into riskier investments that would inject more volatile, non-transparent and/or illiquid assets into the portfolio. Rather, driven by the System's investment policy points to a relatively conservative investment scheme that stresses the importance of preservation of capital and generation of cash flows from such assets.

Preservation of the SCERS' assets is challenged by the required cash payments of retiree benefits paid from such assets. As the number of active members and their contributions have been in constant decline, the number of retirees and hence the amount of cash needed for benefits payments has stabilized and will decline over time. The preservation of the System's assets at the same time the liabilities of the plan decline (declining retiree benefits being paid) will facilitate improving funding ratios over time. Increasing the funding ratio overtime will further decrease the need to incur risk in the portfolio as the System works towards an endgame of meeting the benefit payments of a dwindling retiree pool in an orderly, non-volatile manner.

To best manage the long term competing factors of capital preservation and cash generation, the Board historically has placed emphasis on income-generating investments. Such investments include allocations to interest-bearing fixed income instruments as well as dividend-paying equity securities. The emphasis on interest-bearing fixed income investments reached as high as 70% of plan assets in 1995, all with the goal of generating cash yields close to the actuarial return assumption of 6.5%. Such fixed income investments form the Fixed Fund maintained by the System.

Long term interest rates continued to fall from their high levels in the early 1980's, including consistent declines since then through 2008-2009 financial crisis that resulted in historic low rates. As the yield on long maturity bonds fell below the actuarial return assumption, the Board started to allocate funds to dividend-paying equities. At first, these dividend-paying equity holdings were lumped together with interest-bearing fixed income securities, all within the Fixed Fund. While the dividend-paying stocks have certain bond-like attributes, such as a consistent, steady stream of periodic income, they behave sufficiently different to warrant analyzing and managing such holdings separately from bond holdings. From and after 2008, such stocks were recorded in their own portfolio within the System known as the Equity Income Fund's cash dividends, as well as the interest earned on Fixed Fund holdings, constitute an important portion of the return on the System's assets. In addition, Equity Income stock holdings may also contribute capital returns in the form of higher share values.

For the fiscal year, approximately 60% of the System's assets were allocated to the Fixed Fund (40%) and Equity Income Fund (20%). The overweight to income-generating investments reflects the Board's prudent approach to maintain the actuarial soundness of the System and the ability to pay retiree benefits. Moreover,

A Component Unit of the City of Sacramento Letter to the Members of the Sacramento City Employees' Retirement System and the Sacramento City Council Fiscal Year Ended June 30, 2017

the volatility of the Fixed Fund and Equity Income Fund is less than what is experienced in the other growth equity portions of the SCERS portfolio. In overweighting the portfolio to these two Funds, the Board seeks more consistent cash revenue and total returns while minimizing undue volatility in City contributions which may take place as a result of wide swings in portfolio value from greater weightings to the more growth oriented equity allocations.

Fixed Income Performance

Based on the Board's asset allocation for FY2017, 40% of SCERS assets were allocated to fixed income investments within the Fixed Fund. During the year, such fixed income investments included corporate, municipal and mortgage-backed bonds, plus short-term, cash-equivalent investments. In addition, the Fund includes real estate first trust deed funded by the System. All told, the Fixed Fund's investments are debt securities whose primary source of portfolio return is interest income, with increases in value of the holdings a secondary source of return.

SCERS Total Rate of Return FIXED INCOME For the periods ended June 30, 2017					
Annualized Compound Returns	1 Yr.	3 Yrs.	10 Yrs.		
SCERS Fixed Fund	1.43	4.16	6.79		
Fixed Portfolio Index*	31	2.48	4.47		

Table 2 reflects SCERS' performance of the Fixed Fund for various periods ending June 30, 2017

*Fixed Portfolio Index = 100% Barclays US Aggregate from March 2008 to present; prior to March 2008, 100% Barclays US Intermediate Aggregate.

The Fixed Fund produced a total rate of return of 1.43% for the one-year period ending June 30, 2017, a rate substantially greater than the Fund's market-based benchmark, the Barclays US Aggregate Bond Index that turned in negative returns at -.31%. This continues a long history of outperformance as reflected by the returns for the 3 and 10-yeare timeframes. Over the past 10 years, the Fixed Fund has returned 6.79% annually which exceeds the benchmark return of 4.47% and, more importantly, matches the assumed actuarial rate of return of 6.5%. Hence, the Fixed Fund has been a key contributor to the performance of the entire Plan. The Fixed Fund's outperformance is due primarily to its heavy weighting in high-quality, high coupon corporate and municipal securities.

This year's fixed fund return of 1.43% is far below the 7.71% return of the fund for the previous fiscal year (FY 2016). This decrease in returns was prompted by the rising rate environment that started in the Fall of 2014 (termination of the Federal Reserve (Fed) bond purchase program), continued with the Fed's initial hiking of the Federal Funds rate in December, 2015, and grew in momentum with three 0.25% Federal Fund rate hikes during FY2017 (bond prices move in inversely to interest rates as higher rates result in lower bond values). The recent rate increases in the short-term Federal Funds rate, coupled with a strengthening labor market and economy, resulted in rate increases across all maturities on the yield curve. The percentage increase was the largest in shorter maturity bonds. The Fixed Fund average maturity of

A Component Unit of the City of Sacramento Letter to the Members of the Sacramento City Employees' Retirement System and the Sacramento City Council Fiscal Year Ended June 30, 2017

12.94 years helped the portfolio to hold value more effectively than the broader bond market. Importantly, the high coupons of the portfolio's holdings contributed in excess of \$4.5 million dollars in cash interest payments.

Equity Investment Performance

Equity investment is a broad term used to describe investments in ownership interests in the issuing corporation. Common stocks represent corporate ownership interests. Stocks are typically purchased with the desire to capitalize on the growth of the issuing corporation. Also, many corporations pay dividends to holders of their common stock which provides shareholders with cash income. Common stocks can be purchased individually so the shareholders can target specific companies for growth and/or income purposes. Common stocks may also be purchased in groups through exchange traded funds (ETF's). ETF's can hold stocks of companies included in indexes (e.g. S&P 500 and Russell 2000) or which participate in various economic sectors (e.g. technology, financial and energy sectors) or focus on different investment themes (e.g. growth and value stocks). ETF's provide investors with effective tools to provide exposure into broad swaths of the market or in to specific sectors of the economy. This is as opposed to requiring investors to identify stocks of individual companies to achieve the same exposure, all while incurring the risk that such selected individual companies fail to perform inline with the index or sector (known as "single company risk"). While an ETF represents a collection of stocks, each ETF trades like stocks of individual companies on the major exchanges. SCERS equity portfolios are invested in both single company stocks and ETF's.

By Board policy for the fiscal year ending June 30, 2017, 60% of SCERS assets were to be allocated to equity investments, both domestic and international and including both growth and income objectives.

Table 3						
	Total Rate of Retu					
	EQUITY INVEST					
For the per	iods ended June 30	, 2017				
Annualized Compound Returns	<u>1 Yr.</u>	3 Yrs.	10 Yrs.			
SCERS Domestic Equities	15.61	8.40	4.74			
Domestic Equity Index	16.19	6.96	5.11			
Individual SCERS Domestic Equity Portfolios						
Large Cap Growth Fund	17.97	8.19	4.24			
Large Cap Index**	15.46	7.33	4.89			
Equity Income Fund	11.65	9.13	7.41			
Equity Income Index***	12.66	7.66	3.11			

Table 3 shows the performance of SCERS' equity investments, both domestic and international:

**Large Cap Index = Dec 1992 – June 2007 = 100% Russell 1000 Growth, June 2007 to present = 100% S&P 500

A Component Unit of the City of Sacramento Letter to the Members of the Sacramento City Employees' Retirement System and the Sacramento City Council Fiscal Year Ended June 30, 2017

***Equity Income Index = Apr 1986 - Feb 1992 = 100% Fixed Portfolio, Mar 1992 to present = 100% Dow Jones Select Dividend Index

Tabl SCERS Total Rate of Return INTERNATIONAL EQUITY INVESTMENTS For the periods ended June 30, 2017						
Annualized Compound Returns	1 Yr.	3 Yrs.	10 Yrs.			
SCERS International Fund	18.78	96	-1.24			
International Equity Index*	17.47	-1.76	-1.56			

*International Index = Feb 2006 – Jun 2007 = 33% Nikkei, 67% MSCI EAFE, Jul 2007 to present = 100% MSCI ACWI ex US

Per Table 3, the performance of the overall SCERS domestic equity portfolio was 15.61% for the one-year period as compared to the 16.19% return by the benchmark (Russell 3000 which represents the stocks of approximately 98% of US publicly traded corporations). While the double-digit percentage return of the domestic equity portfolios fell just short of the broad market benchmark, these portfolios (and the benchmark) significantly outperformed the Plan's actuarial rate of return of 6.5%. The above average performance of the portfolios and the market benchmark is commensurate with surging US economic growth and growing evidence of a global synchronized recovery in the world's economies.

The two domestic stock portfolios, Large Cap Fund and Equity Income Fund, and the International Fund showed double-digit returns, including 17.97%, 11.65% and 18.78%, respectively.

The Plan's largest equity portfolio is the Large Cap Growth Fund which is benchmarked to the S&P500 Index. The double-digit returns of the Fund far exceeded the historical average domestic stock return of between 9% and 10% and clearly outperformed the benchmark S&P500 return of 15.46%. The domestic market meandered during the early part of FY2017 as the country was faced with geo-political issues and a highly contentious and divisive presidential campaign, providing flat returns up to the November, 2017 election day. Markets rallied after election day, mostly fueled by the prospects of lower corporate taxes and reduced business regulations. That rally continued in more muted fashion following the immediate post-election market reactionary rally. While the incoming administration failed to achieve any of its major campaign promises through the end of the fiscal year, the market's steady rise can be attributed both to continued domestic economic growth and budding international economic performance.

The second largest equity portfolio is the Equity Income Fund. As stated above, the purpose of this Fund is primarily to boost the dividend cash income of the Plan to provide a source of benefit payments. Like the Large Cap Growth Fund, the Equity Income Fund experienced a rapid rise following the 2016 presidential election. However, after the initial spurt, the Fund's advance was more muted than the Large Cap Growth Fund as investors favored growth investments contained in the latter portfolio over the more value oriented assets in the Equity Income Fund. The Fund's total return was 11.65% which return fell short of its benchmark, but, importantly, outperformed the actuarial rate of return of 6.5% by a wide margin. Notwithstanding the total return underperformance, the Equity Income Fund helps to fulfill the Board's objective of enhancing cash income to help pay benefits. The Fund's yield from dividends was 2.97% for the year, providing cash to the System as intended.

A Component Unit of the City of Sacramento Letter to the Members of the Sacramento City Employees' Retirement System and the Sacramento City Council Fiscal Year Ended June 30, 2017

The International Fund holds equities issued by foreign corporations. It is the smallest of the three equity portfolios. While almost half of the world's investable equities are issued by foreign companies, the Board has kept the portfolio's weighting low (5% for the year ending June 30, 2017) due to global economic and political uncertainties as well as geo-political strife. The lower weighting to international stocks was reflective of the past ten years when international stocks were either in bear markets or otherwise vastly underperformed the domestic stock market. However, foreign markets started to improve in late FY2016 and all during FY2017, including a wakening of the long-dormant Japanese market and monetary stimulus finally initiating growth in Europe. Emerging market performance also picked up as commodity prices stabilized or improved. In the second half of the fiscal year, investment staff increased international exposure. By the end of the fiscal year, the international benchmark outperformed the domestic benchmark and the International Fund gained 18.78% which compares to 17.47% benchmark return.

In 2014, the Board authorized an options program primarily involving the writing of call options on existing equity holdings. The purpose of the options program is to increase cash income to the Fund and provide a hedge against the decline in its investments. Since its inception, the call-write program has had a positive impact on the returns and cash generation of the Fund.

INDEPENDENT AUDIT

SCERS receives an independent audit of the basic financial statements. An independent audit has been performed for the fiscal year ended June 30, 2017, and the auditor's opinion is included in this report. The City of Sacramento is responsible for establishing and maintaining internal controls designed to ensure the protection of assets from loss, theft, or misuse, and for ensuring the accounting information generated is adequate to prepare financial statements in conformity with accounting principles generally accepted in the U.S. The design of the internal controls is to provide reasonable assurance, although not absolute assurance, of achieving these objectives. The accuracy and completeness of the data outlined in this report is the sole responsibility of the management of SCERS.

ACTUARIAL VALUATION

The actuarial valuation report for SCERS as of June 30, 2017 is presented in this document. Very briefly, this report identifies a Net Pension Liability (NPL) of \$48.369 million as of June 30, 2017. This amount represents a 9.9% decrease in NPL over the prior fiscal year.

PROFESSIONAL SERVICES

SCERS engages the following consultants to assist in the management and investment of assets:

Firm	Duties
Segal Rogerscasey	Performance evaluation
Bartel Associates	Actuarial evaluation and asset allocation
	(Since 6/30/06)
Bank of New York	Custody and master trust (since 3/1/96)

A Component Unit of the City of Sacramento Letter to the Members of the Sacramento City Employees' Retirement System and the Sacramento City Council Fiscal Year Ended June 30, 2017

BOARD MEETINGS

For the fiscal year ending June 30, 2018, regular meetings of the Board will be held in City Treasurer's Conference Room 2nd Floor, 915 "I" Street, at 1:30 p.m., on August 10, 2017, October 26, 2017 November 27, 2017, February 1, 2018 and May 3, 2018. The Board's meetings are open to the public and attendees are afforded the opportunity to provide input on any matter on the meeting agenda or not on the agenda that may be related to the Board's activities.

John Colville, City Treasurer Administration, Investment and Fiscal Management Board

POLICY STATEMENT

As a matter of policy, the Administration, Investment and Fiscal Management Board has determined the following schedules shall be included as addenda to the Annual Financial Report of the Sacramento City Employees' Retirement System:

- 1. A letter of transmittal to the City Council from the Board Chair;
- 2. An independent auditor's report;
- 3. A statement of the System's financial position;
- 4. A summary schedule of changes in the investment position during the year by security type;
- 5. A detailed listing of investments (by security) as of the end of the fiscal year;
- 6. A statement from the Actuary showing the estimated position of the Fund based on latest actuarial projections; and
- 7. The policy statement of the Board. The Board shall notify recognized employee organizations and the City Council of any changes in the policy statement that are to be made.

Adopted May 1978



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INDEPENDENT AUDITORS' REPORT

Administration, Investment and Fiscal Management Board Sacramento City Employees' Retirement System Sacramento, California Honorable Mayor and City Council City of Sacramento Sacramento, California

We have audited the accompanying financial statements of the Sacramento City Employees' Retirement System (SCERS), a component unit of the City of Sacramento, California (City), as of and for the year ended June 30, 2017, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

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

Auditors' Responsibility

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

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the 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.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Sacramento City Employees' Retirement System as of June 30, 2017, and the changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Prior-Year Comparative Information

The financial statements include partial prior-year comparative information. Such information does not include all of the information required to constitute a presentation in conformity with accounting principles generally accepted in the United States of America. Accordingly, such information should be read in conjunction with SCERS' financial statements for the year ended June 30, 2016, from which such partial information was derived.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on pages 3-6 and the schedules of changes in the net pension liability and related ratios, schedule of employer contributions, and schedule of investment returns on pages 21-24 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that comprise the SCERS' basic financial statements. The introductory section, schedule of changes in investment position, listing of investments, and actuarial section are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The schedule of changes in investment position and listing of investments are 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, schedule of changes in investment position and listing of investments are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory and actuarial 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.

Vaurinik, Trine, Day & Co. LLP

Sacramento, California December 22, 2017

A Component Unit of the City of Sacramento Management's Discussion and Analysis (Unaudited) Fiscal Year Ended June 30, 2017

The management of the Sacramento City Employees' Retirement System (SCERS) is pleased to provide this overview and analysis of the financial activities of SCERS for the fiscal years ended June 30, 2017 and 2016. We encourage readers to consider the information presented here in conjunction with the Financial Statements and Supplemental Schedules that follow this discussion.

Financial Highlights

- SCERS held \$288.5 million of net position restricted for pension benefits at June 30, 2017 and \$285.1 million at June 30, 2016. All of the net position is restricted for SCERS' ongoing obligation to plan participants and their beneficiaries.
- SCERS' funding objective is to maintain sufficient net position through investments and contributions to meet long-term obligations for benefits. As of June 30, 2017, for every dollar of total pension liability, SCERS had approximately \$0.86 available to pay those benefits. That number is based on the most recent actuarial valuation as of June 30, 2017 and is calculated based on the requirements of GASB Statement No. 67. As of June 30, 2016, SCERS had a funded status, as defined under GASB Statement No. 67, of 78% which means that for every dollar of benefits due as of that date, SCERS had approximately \$0.78 of assets available for payment.
- SCERS' employer contribution was \$8.6 million for the fiscal year ended June 30, 2017, similar to the \$8.6 million in 2016.
- For the fiscal year ended June 30, 2017, SCERS' net income from investment activity was \$26.8 million compared to net investment income of \$7.8 million in the prior year. The increase in return was a result of greater appreciation in the fair value of the investments during fiscal year 2017 compared to fiscal year 2016.

Overview of Financial Statements

The following discussion and analysis are intended to serve as an introduction to SCERS' financial statements, which are comprised of the following components:

- 1. *Statement of Plan Net Position* is a snapshot of account balances as of June 30, 2017 with comparative amounts for 2016. It indicates the total assets and the total liabilities as well as the net position available for future payment of retirement benefits and investment expenses.
- 2. *Statement of Changes in Plan Net Position* provides a view of additions and deductions to SCERS' net position during each of the fiscal years.
- 3. *Notes to Financial Statements* and *Required Supplementary Information* provide additional information that is essential to a full understanding of the data provided in the basic financial statements.

The statement of plan net position and the statement of changes in plan net position report information about SCERS' financial activities, prepared using the accrual basis of accounting. Contributions to SCERS are recognized when due, and benefits and refunds are recognized when due and payable. Investments are reported at fair value, except mortgage loans, which are reported at amortized cost. The estimated fair value of investments is the quoted market price. Purchases and sales of investments are recorded on a trade date basis.

A Component Unit of the City of Sacramento Management's Discussion and Analysis (Unaudited) Fiscal Year Ended June 30, 2017

Financial Analysis

SCERS' net position may serve over time as a useful indication of SCERS' financial position. All of SCERS' net position is restricted for SCERS ongoing obligation to plan participants and their beneficiaries.

NET POSITION SUMMARY

SCERS' net position as of June 30, 2017 and 2016 is represented in the chart below.

As of June 30, 2017 and 2016 (in thousands)							
		2017		2016	С	hange	Percent
Cash and cash equivalents	\$	8,601	\$	14,782	\$	(6,181)	-42%
Receivables		1,600		1,686		(86)	-5%
Investments at fair value		279,213		271,593		7,620	3%
Total assets		289,414		288,061		1,353	0%
Total liabilities		904		2,891		(1,987)	-69%
Net position restricted for pension benefits	\$	288,510	\$	285,170	\$	3,340	1%

SCERS' net position restricted for pension benefits increased the fiscal year ended June 30, 2017 due primarily to the increase in the value of investments. Cash decreased as the benefits payable were reduced.

4

A Component Unit of the City of Sacramento Management's Discussion and Analysis (Unaudited) Fiscal Year Ended June 30, 2017

The following table shows the changes in the various additions and deductions:

HIGHLIGHTS OF CHANGES IN NET POSITION Fiscal year ended June 30, 2017 (in thousands)

		2017 2016 Change		2017		2016		2016		Change	Percent
Additions:											
Employer contributions	\$	8,645	\$	8,645	\$	-	0%				
Employee contributions		63		146		(83)	-57%				
Net appreciation in the											
fair value of investments		17,997		(908)		18,905	2082%				
Interest		4,639		5,236		(597)	-11%				
Dividends		5,350		4,609		741	16%				
Investment expenses		(1,183)		(1,138)		(45)	4%				
Total additions		35,511		16,590		18,921	114%				
Deductions:											
Benefit payments		32,171		32,633		(462)	-1%				
Refunds of employee contributions		-		50		(50)	-100%				
Total deductions		32,171	_	32,683		(512)	-2%				
Net increase/(decrease) in net position Net position restricted for pension benefits:		3,340		(16,093)		19,433	-121%				
Beginning of fiscal year		285,170		301,263		(16,093)	-5%				
End of fiscal year	\$	288,510	\$	285,170	\$	3,340	1%				

- Required employer contributions decreased for the fiscal year ended June 30, 2016 due to improved performance of the investment portfolio over the past several years and stayed unchanged during fiscal year ended June 30, 2017.
- Employee contributions for the fiscal year ended June 30, 2017 decreased slightly from 2016 due to retirements. Contributions are expected to decline as the system is closed to new members and the number of active members is decreasing each year.
- Net appreciation in fair value of investments has increased by \$18.9 million. The \$18 million gain during the fiscal year ended June 30, 2017 include \$4.9 million unrealized gain and \$13.1 million realized gain compared to \$12.9 unrealized loss and \$12 million realized gains during the fiscal year ended June 30, 2016. The largest gain incurred in the exchange traded fund portfolios.
- Benefit payments to plan participants decreased because of a decline in the number of participants receiving benefits. The decrease was somewhat offset by the annual inflation adjustment made to the benefit amount. Because the plan has been closed for nearly 35 years, the number of participants receiving benefits declines each year.

A Component Unit of the City of Sacramento Management's Discussion and Analysis (Unaudited) Fiscal Year Ended June 30, 2017

Changes in Funded Ratio

With the implementation of GASB Statement No. 67 on July 1, 2013, the components of the funded ratio have changed. Prior to the implementation of GASB Statement No, 67, the funded ratio was the ratio of the actuarial value of plan assets to the actuarial accrued liability, as defined in GASB Statement No. 25. Since the implementation of GASB Statement No. 67, the funded ratio is the ratio of fiduciary net position to total pension liability, as defined in GASB Statement No. 67.

Under both definitions, the funded ratio shows how much net position the plan has available to pay each dollar of benefit liability as of the measurement date. SCERS funded ratio for the years ended June 30, 2016 and 2017 is 77.9% and 85.6%, respectively. The increase between June 30, 2016 and June 30, 2017 is largely due to investment gains.

Currently Known Facts and Events

The overall risk profile of SCERS has remained unchanged since June 30, 2017, and the volatility of the investment portfolio remains in line with the overall financial markets. The global capital markets are highly dynamic and the value of SCERS investments changes every day.

Requests for Information

This financial report is designed to provide a general overview of SCERS' finances, and to demonstrate SCERS' accountability for the money it receives and distributes. If you have questions about this report, or need additional financial information, contact the City of Sacramento Department of Finance, Accounting Division, 915 I Street, 4th floor, Sacramento, California 95814.

SACRAMENTO CITY EMPLOYEES' RETIREMENT SYSTEM Statement of Plan Net Position June 30, 2017 With Comparative Totals for June 30, 2016 (Amounts Expressed in Thousands)

	2017	2016	
Assets			
Cash and cash equivalents	\$ 8,601	\$ 14,782	
Receivables:			
Interest and dividends	1,600	1,686	
Total receivables	1,600	1,686	
Investments:			
U.S. agencies	1,182	1,430	
Corporate bonds	37,148	53,775	
Equities	68,397	50,326	
Exchange traded funds	117,852	114,915	
Municipal bonds	52,902	49,223	
Mortgage loans	1,732	1,924	
Total investments	279,213	271,593	
Total assets	289,414	288,061	
Liabilities			
Benefits payable	885	2,872	
Accounts payable	19	19	
Total liabilities	904	2,891	
Net position restricted for pensions	\$ 288,510	\$ 285,170	

See accompanying notes to basic financial statements.

Statement of Changes in Plan Net Position Fiscal Year Ended June 30, 2017 With Comparative Totals as of June 30, 2016 (Amounts Expressed in Thousands)

	2017	2016	
Additions			
Contributions:			
Employer	\$ 8,645	\$ 8,645	
Employees	63	146	
Total contributions	8,708	8,791	
Investment income:			
From investment activities:			
Net increase / (decrease) in fair value of investments	17,997	(908)	
Interest	4,639	5,236	
Dividends	5,350	4,609	
Total investment income	27,986	8,937	
Less investment expense:			
Banking, interest, fiscal agent & other	102	103	
Professional services	1,081	1,035	
Total investment expense	1,183	1,138	
Net income from investing activities	26,803	7,799	
Total net investment income	26,803	7,799	
Total net additions	35,511	16,590	
Deductions			
Benefits	32,171	32,633	
Refunds of employee contributions	-	50	
Total deductions	32,171	32,683	
Net increase/(decrease) in plan net position	3,340	(16,093)	
Net position restricted for pensions			
Beginning of fiscal year	285,170	301,263	
End of fiscal year	\$ 288,510	\$ 285,170	

See accompanying notes to basic financial statements.

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note A – Plan Description

The City of Sacramento, California, (City) sponsors and administers a defined benefit contributory pension system known as the Sacramento City Employees' Retirement System (SCERS). The fiscal management of SCERS is vested in the five-member Administration, Investment, and Fiscal Management Board (Board), consisting of the City Manager, Director of Finance, City Treasurer and two public members who are appointed by the City Council. Because of this relationship with the City, SCERS is reported as a component unit of the City.

SCERS is a single-employer system and an integral part of the City. The accompanying financial statements are included as a pension trust fund in the basic financial statements of the City. The system covers all City employees hired before January 29, 1977 and is closed to new members. Employee contribution rates are generally frozen (with minor exceptions) and the City is responsible for any actuarially determined unfunded obligation of the plan. SCERS is comprised of the individual plans listed below. The City Charter establishes plan membership, contributions, and benefit provisions. Any changes must be approved by the electorate of the City.

- 1. Charter Section 399 Plan This defined benefit plan was established effective January 1, 1977 to provide retirement, disability and death benefits. Active members contribute at a rate based upon entry age and type of employment.
- 2. Equal Shares Plan This defined benefit plan was established July 1, 1970 to provide retirement, disability and death benefits to all City employees electing coverage at that date and to all employees who were hired from that date through January 1, 1977.
- 3. Charter Section 175 Plans These defined benefits were established in 1953 and provide for retirement, disability and death benefits at a lower amount than the successor Equal Shares Plan.

Plan membership at June 30, 2017 consisted of the following:

	Section 399	Equal Shares	Section 175	Total
Inactive members or beneficiaries receiving benefits	943	56	60	1,059
Inactive members entitled to but not yet receiving benefit	9		1	10
Active plan members	16	-	-	16
Total plan members	968	56	61	1,085

Cost-of-Living Adjustment – This adjustment, established in 1969, provides for annual retirement benefit increases of up to 3% of normal benefits based on a corresponding rise in the consumer price index. Cost-of-living benefits are payable to retirees and beneficiaries of all of the above plans after one year of retirement. The cost-of-living adjustment was 2.8% for fiscal year 2017. Members contribute to this adjustment at a rate of 1% of their normal retirement contributions. The City is required to fund all costs in excess of members' contributions and investment earnings.

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note A – Plan Description (Continued)

SCERS reports the assets and activities of all plans in one trust fund. All assets accumulated for the payment of benefits may be used to pay benefits to any of the plan members or beneficiaries.

Since benefits fully vest after five years of service and admission to the plan was restricted in 1976 and closed in 1980, all accumulated benefits at June 30, 2017 are fully vested.

Since the plans included in SCERS are closed to new members, the number of active members in the system is declining. Member contributions have declined as members retire. During the fiscal year ended June 30, 2017 active member contributions ranged from 3% to 10% of payroll. At June 30, 2017, active members' accumulated contributions, including interest, totaled approximately \$4.2 million, respectively. For the fiscal year ended June 30, 2017, interest was credited to members' contributions at the rate of 7.75%. Members have an option to withdraw their accumulated contributions, including interest, upon termination of their employment with the City.

Note B – Summary of Significant Accounting Policies

Basis of Accounting

SCERS' financial statements are prepared using the accrual basis of accounting. Member contributions are recognized in the period in which the contributions are due. Employer contributions to each plan are recognized when due and the employer has made a formal commitment to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the plan.

Investments

SCERS' investments are recorded at fair value, except mortgage loans, which are recorded at amortized cost. Investments reported at fair value are based on quoted market prices. The mortgage loans are collateralized loans whose market value is unknown. Purchases and sales of investments are recorded on a trade date basis.

Administrative Costs

The City charter requires all costs of administration, excluding investment activity, to be paid by the City. These costs are, therefore, excluded from the accompanying financial statements.

Use of Estimates

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

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note C – Cash and Investments

Cash and Cash Equivalents

SCERS participates in the City of Sacramento's investment pool, which is not rated by a nationally recognized statistical rating organization. The City Treasurer is granted authority for managing the pool by City Charter, City Council ordinances and resolutions. The City Treasurer reports investment activity quarterly to the City Council and quarterly the investment policy is reaffirmed by the City Council. The pool is accounted for on an amortized cost basis during the year. The value of the pool shares that may be withdrawn at any time is determined on an amortized cost basis, which is different than the fair value of SCERS' position in the pool. Information regarding the investments within the City's pool, including the related risks, can be found in the City's Comprehensive Annual Financial Report (CAFR). The City's investment pool is not rated and has a weighted average maturity of 2.11 years as of June 30, 2017.

Investments

The City Charter vests the Board with the authority to administer and invest the funds of the System consistent with charter provisions. The Board is mandated to adopt general investment standards that the City Council shall either approve or disapprove. These standards are set forth in an Investment Policy document that is annually reviewed by the Board and approved by the City Council. The Investment Policy sets forth the type of investments the System may hold and directs the Board to determine how the System funds may be allocated to different general asset classes. The Board sets the asset allocations by resolution effective for each fiscal year. The Board and its investment managers are required to conform their investment practices to the terms of the Investment Policy and related Board resolutions.

On May 1, 2017, the Board adopted the following asset allocation policy to be implemented by June 30, 2017.

Asset Class	Target Allocation
Fixed Income	35%
Large Cap Growth	35%
Equity Income	25%
International	5%
Total	100%

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note C - Cash and Investments (Continued

Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. One of the ways that SCERS manages its exposure to interest rate risk is by purchasing a combination of shorter term and longer term investments and by timing cash flows from maturities so that a portion of the portfolio is maturing or coming close to maturing evenly over time as necessary to provide the cash flow and liquidity needed for operations.

Information about the sensitivity of the fair values of SCERS' investments to market interest rate fluctuations is provided by the following table that shows the distribution of SCERS' investments by maturity. The remaining maturity of the SCERS' investments included in the tables below is based on the stated maturity dates of the individual investments, except in the case of variable rate investments where the maturity date below is the next reset date. Variable rate securities are investments with terms that provide for the adjustment of interest rates on specified dates based on predefined mathematical formulas. The fair value of such investments can reasonably be expected to be affected at each interest rate reset date.

		F				
Investment Type	No Maturity	Under 1	1-5	10 or less	Over 10	Total
Cash and short-term investments:						
City of Sacramento Investment Pool	\$ -	\$ 8,601	\$ -	\$ -	\$ -	\$ 8,601
Investments:						
Corporate bonds/notes	-	6,192	13,008	3,067	14,881	37,148
Equities	68,397	-	-	-	-	68,397
Exchange traded funds	117,852	-	-	-	-	117,852
Mortgage loans	-	-	-	1,732	-	1,732
Municipal bonds	-	964	1,531	2,520	47,887	52,902
U.S. agency securities		-	12	40	1,130	1,182
Total Investments	186,249	7,156	14,551	7,359	63,898	279,213
Total Cash and Investments	\$ 186,249	\$ 15,757	\$ 14,551	\$ 7,359	\$ 63,898	\$ 287,814

At June 30, 2017, SCERS' investments have maturities as follows:

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note C – Cash and Investments (Continued)

Interest Rate Risk (Continued)

Investments in callable bonds are investments that, although having clearly defined maturities, allow for the issuer to redeem or call such bonds earlier than their respective maturity dates. The investor must then replace the called bonds with investments that may have lower yields than the original bonds.

The fair values of the callable bonds held at June 30, 2017 by investment type are as follows:

Investment Type	Total
Corporate bonds	\$ 17,792
Municipal bonds	19,701

Credit Risk

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. As of June 30, 2017, SCERS held a bond that is currently in default of the semi-annual interest payments. The bond issuer Lehman Brothers filed for Chapter 11 bankruptcy protection on September 15, 2008. The bond has a maturity date of December 29, 2099 and a fair value of \$156 as of June 30, 2017.

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note C – Cash and Investments (Continued)

Interest Rate Risk (Continued)

At June 30, 2017, SCERS' investments and credit ratings are as follows:

Investment Type	S & P	Moody	Total
City of Sacramento Investment Pool	not rated	not rated	\$ 8,601
Corporate bonds/notes	А	А	15,905
	AA	Aa	5,173
	BBB	А	9,042
	BBB	Baa	6,872
	not rated	withdrawn	156
Equities (exempt from disclosure)	N/A	N/A	68,397
Exchange traded funds (exempt from disclosure)	N/A	N/A	117,852
Mortgage loans	not rated	not rated	1,732
Municipal bonds	А	А	6,382
	А	Baa	3,373
	А	not rated	5,646
	AA	А	8,113
	AA	Aa	19,788
	AA	Aaa	2,847
	AA	not rated	5,454
	not rated	Aa	1,299
U.S. agency securities	N/A	N/A	1,182
Total Cash and Investments			\$ 287,814

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note C – Cash and Investments (Continued)

Concentration of Credit Risk

As of June 30, 2017, SCERS had the following investments in one issuer exceeding 5% of plan net position or 5% of total investments excluding investments issued or explicitly guaranteed by the U.S. government:

ishares Russell 1000 Value Index (ETF) \$ 17,465

Money-weighted rate of return

For the year ended June 30, 2017, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense was 10.22%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Fair Value Measurement and Application

SCERS categorizes its 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. The hierarchy gives 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). The three levels of the fair value hierarchy are described as follows:

Level 1 – Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the SCERS has the ability to access.

Level 2 – Inputs to the valuation methodology include:

- Quoted prices for similar assets or liabilities in active markets;
- Quoted prices for identical or similar assets or liabilities in inactive markets;
- Inputs other than quoted prices that are observable for the asset or liability; and
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

Level 3 – Inputs to the valuation methodology are unobservable and significant to the fair value measurement. Unobservable inputs reflect the SCERS' own assumptions about the inputs market participants would use in pricing the asset or liability (including assumptions about risk).

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note C – Cash and Investments (Continued)

Fair Value Measurement and Application (Continued)

Unobservable inputs are developed based on the best information available in the circumstances and may include SCERS' own data.

The asset's level within the hierarchy is based on the lowest level of input that is significant to the fair value measurement. Valuation techniques used, need to maximize the use of observable inputs and minimize the use of unobservable inputs. The determination of what constitutes observable requires judgment by the SCERS' management. SCERS management considers observable data to be that market data, which is readily available, regularly distributed or updated, reliable, and verifiable, not proprietary, and provided by multiple independent sources that are actively involved in the relevant market. The categorization of an investment within the hierarchy is based upon the relative observability of the inputs to its fair value measurement and does not necessarily correspond to SCERS management's perceived risk of that investment.

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

SCERS' treasury pools' asset market prices are derived from closing bid prices as of the end of business day as supplied by Interactive Data Corporation. Where prices are not available from generally recognized sources, the securities are priced using a yield-based matrix system to arrive at an estimated market value. Prices that fall between data points are interpolated.

The following is a description of the valuation methods and assumptions used by SCERS to estimate the fair value of its investments:

- When available, quoted process are used to determine fair value. When quoted prices in active markets are available, investments are classified within Level 1 of the fair value hierarchy.
- For investments classified within Level 2 of the fair value hierarchy, SCERS' custodians generally use a multi-dimensional relational model. Inputs to their pricing models are based on observable market inputs in active markets. The inputs to the pricing models are typically benchmark yields, reported trades, broker-dealer quotes, issuer spreads and benchmark securities, among others.
- SCERS held one type of investment that is measured using Level 3 inputs, Mortgage Loans. The Mortgage Loan is reported using the income approach. The value of the Mortgage Loan on the books is materially close to the Discounted Cash Flow, therefore the book value is reported.

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note C – Cash and Investments (Continued)

Fair Value Measurement and Application (Continued)

There have been no changes in the methods and assumptions used at June 30, 2017. The methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. SCERS management believes its valuation methods are appropriate and consistent with other market participants. The use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

SCERS has the following recurring fair value measurements as of June 30, 2017:

			Fair Value Measurements on a Recurring Basis U						
				Quoted Prices in		cant Other	Sigr	nificant	
	Balance at		Activ	ve Markets	Obs	servable	Unob	servable	
	June 30,		for		I	nputs	In	puts	
Investments by Fair Value Level		2017	Identical Assets		(L	evel 2)	(Le	evel 3)	
Corporate bonds/notes	\$	37,148	\$	-	\$	37,148	\$	-	
Equities		68,397		68,397		-		-	
Exchange traded funds		117,852		117,852		-		-	
Mortgage loans		1,732		-		-		1,732	
Municipal bonds		52,902		-		52,902		-	
U.S. agency securities		1,182		-		1,182		-	
Total Investments by Fair Value Level		279,213	\$	186,249	\$	91,232	\$	1,732	
Investments at Fair Value not Subject to									
Fair Value Hierarchy									
City of Sacramento Investment Pool	-	8,601							
Total Cash and Investments	\$	287,814							
Fair Value Hierarchy City of Sacramento Investment Pool	\$								

Deposits and withdrawals in the City of Sacramento Investment Pool are made on the basis of \$1 and not fair value. Accordingly, the measurement of fair value of SCERS' investment in the investment pool is based on uncategorized inputs not defined as Level 1, Level 2, or Level 3.

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note D – Related Party Transactions

At June 30, 2017, SCERS held revenue bonds issued by the Sacramento City Financing Authority (SCFA) in the amount of \$5,646 SCFA is also a blended component unit of the City of Sacramento because its Board is comprised of all City Council members, and there is a financial benefit/burden relationship between the City and SCFA.

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note E – Funding Policy

The City's funding policy provides for actuarially determined contributions under the entry age normal method, which are discounted and adjusted annually to ensure that sufficient assets will be available to pay benefits when due. The City Council established and may amend the obligations of the plan members and the City to contribute to the plan. For the fiscal year ended June 30, 2017, the City's annual required and actual contribution was \$8.645 million.

Note F - Net Pension Liability of the City

The components of the net pension liability of the City at June 30, 2017 is shown below (dollars in millions). The total pension liability is based on an actuarial valuation as of June 30, 2017.

	Jun	30, 2017		
Total pension liability	\$	336,878		
Plan fiduciary net position		(288,509)		
City's net pension liability	\$	48,369		
Plan fiduciary net position as a percentage of the total				
pension liability		85.6%		

Actuarial assumptions

The total pension liability was determined by an actuarial valuation as of June 30, 2017, using the following actuarial assumptions, applied to all periods included in the measurement.

Inflation	2.75%
Salary increases	2.75% CPI plus 0.5% merit, average
Discount rate	6.50%

Mortality rates for service retirements and beneficiaries were based on CalPERS 1997-2011 Mortality Table projected for future mortality improvement utilizing Society of Actuaries Scale MP-2016. Mortality rates for disability retirements were based on CalPERS 1997-2011 Mortality Table for non-work Disabled Retirees for Miscellaneous and CalPERS 1997-2011 Mortality Table for work-related Disabled Retirees for Safety. Both tables were projected for future mortality improvement utilizing Society of Actuaries Scale MP-2014.

A Component Unit of the City of Sacramento Notes to the Basic Financial Statements (Continued) Fiscal Year Ended June 30, 2017 (Dollars in thousands, except as otherwise noted)

Note F – Net Pension Liability of the City (Continued)

Discount rate

The Discount Rate was set equal to the long-term expected rate of return. The long-term expected rate of return was used since current assets, future City contributions, and future member contributions are projected to be sufficient to cover all future benefit payments and expenses. This "crossover test" was performed in accordance with the requirements specified in GASB Statement 67, including a projection that Plan's funding policy will remain unchanged.

The 6.5% long-term expected rate of return was derived based on the inflation assumption of 2.75% and a long-term asset allocation of 65% equities and 35% fixed income. The geometric real rates of return were assumed to be 4.82% for equities and 1.47% for fixed income. The sensitivity of the discount rate to a 1% change is shown below.

Sensitivity of the net pension liability to changes in the discount rate

The following presents the net pension liability of the City, calculated using the discount rate of 6.5%, as well as what the City's net pension liability would be if it were calculated using a discount rate that is 1 percentage-point lower (5.5%) or 1 percentage-point higher (7.5%) than the current rate:

	1% decrease	Current Discount	1% increase
	(5.5%)	Rate (6.5%)	(7.5%)
City's net pension liability	\$76,333	\$48,369	\$24,224

Actuarial valuations of an ongoing plan involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. Actuarially determined amounts are subject to continual revision as actual results are compared to past expectations and new estimates are made about the future. Actuarial calculations reflect a long-term perspective and are based on the benefits provided under the terms of the substantive plan in effect at the time of each valuation.

REQUIRED SUPPLEMENTARY INFORMATION

Sacramento City Employees' Retirement System Schedule of Changes in Net Pension Liability and Related Ratios

Last Ten Fiscal Years

(in thousands)

	 2017	 2016	 2015	2014
Total pension liability Service cost Interest Differences between expected and actual experience Changes of assumptions Benefit payments, including refunds of member contributions	\$ 96 22,759 (3,701) (16,246) (32,171)	\$ 103 23,416 (1,173) - (32,683)	\$ 131 23,134 (8,783) 23,117 (33,791)	\$ 176 23,779 - - (33,688)
Net change in total pension liability	(29,263)	(10,337)	3,808	(9,733)
Total pension liability beginning	 366,141	 376,478	 372,670	 382,403
Total pension liability ending (a)	\$ 336,878	\$ 366,141	\$ 376,478	\$ 372,670
Plan fiduciary net position Contributions employer Contributions member Net investment income Benefits payments, including refunds of member contributions Net change in fiduciary net position Plan fiduciary net position beginning	\$ 8,645 64 26,801 (32,171) 3,339 285,170	\$ 8,645 146 7,799 (32,683) (16,093) 301,263	\$ 9,183 82 13,375 (33,791) (11,151) 312,414	\$ 9,649 161 40,317 (33,688) 16,439 295,975
Plan fiduciary net position ending (b)	\$ 288,509	\$ 285,170	\$ 301,263	\$ 312,414
Net pension liability ending (a) - (b)	\$ 48,369	\$ 80,971	\$ 75,215	\$ 60,256
Plan fiduciary net position as a percentage of the total pension liability	85.64%	77.89%	80.02%	83.83%
Covered payroll	\$ 1,049	\$ 1,020	\$ 1,180	\$ 2,279
Net pension liability as a percentage of covered payroll	4610.96%	7938.33%	6374.15%	2643.97%

Notes to Schedule:

The information in this schedule is prepared in accordance with GASB Statement No. 67, *Financial Reporting for Pension Plans*, which SCERS implemented for the fiscal year ended June 30, 2014. Data is not available for the years prior to implementation so only four fiscal years are presented.

For the fiscal year ended June 30, 2017, the calculation of the total pension liability was affected by the following changes in assumption: Infliation was reduced from 3% to 2.75%

Salary scale was reduced from 3.50% to 3.25%

Mortality improvement was changed to use Society of Actuaries Scale MP-2016

Sacramento City Employees' Retirement System Schedule of Employer Contributions

Last Ten Fiscal Years

(in thousands)

							Fise	cal Year		
		2017		2016		2015		2014		2013
Actuarially determined contributions Contributions in relation to the actuarially determined contribution	\$	8,645 8,645	\$	8,645 8,645	\$	9,183 9,183	\$	9,649 9,649	\$	10,573 10,573
Contribution deficiency (excess)	\$	-	\$	-	\$	-	\$	-	\$	-
Covered payroll	\$	1,049	\$	1,020	\$	1,180	\$	2,279	\$	2,279
Contributions as a percentage of covered payroll		824%		848%		778%		423%		464%

Notes to Schedule

The actuarial valuation was rolled forward from 6/30/2013 to 6/30/2014. As a result, the covered employee payroll used to calculate the contributions as a percentage of covered employee payroll is the same for both years.

Valuation date:

Actuarily determined contributions are calculated as of June 30, two years prior to the end of the fiscal year in which contributions are reported

Methods and assumptions used to determine contribution rates: Actuarial cost method Amortization method Asset valuation method Inflation Salary increases Investment rate of return Retirement age Covered payroll Mortality Net pension liability as a percentage of enmployee payroll

Entry age normal Level dollar payments over 14 years, open period 3 year smoothed market value 2.75% 2.75% CPI plus 0.5% merit 6.50%

Deferred vested members covered under Section 399 are assumed to retire at age 62; those covered under 175 are assumed to retire at age 65 CaIPERS 1997-2007 Mortality Tables with Society of Actuaries Scale MP-2016

Sacramento City Employees' Retirement System Schedule of Employer Contributions

Last Ten Fiscal Years

(in thousands)

							Fise	cal Year		
		2012		2011		2010		2009		2008
Actuarially determined contributions Contributions in relation to the actuarially determined contribution	\$	10,361 10,361	\$	10,547 10,547	\$	3,431 3,431	\$	3,159 3,159	\$	3,534 3,534
Contribution deficiency (excess)	\$	-	\$	-	\$	-	\$	-	\$	-
Covered payroll	\$	2,959	\$	4,132	\$	5,302	\$	5,749	\$	8,869
Contributions as a percentage of covered payroll		350%		255%		65%		55%		40%

Notes to Schedule

The actuarial valuation was rolled forward from 6/30/2013 to 6/30/2014. As a result, the covered employee payroll used to calculate the contributions as a percentage of covered employee payroll is the same for both years.

Valuation date:

Actuarily determined contributions are calculated as of June 30, two years prior to the end of the fiscal year in which contributions are reported

Methods and assumptions used to determine contribution rates: Actuarial cost method Amortization method Asset valuation method Inflation Salary increases Investment rate of return Retirement age

Entry age normal Level dollar payments over 14 years, open period 3 year smoothed market value 2.75% 2.75% CPI plus 0.5% merit 6.50%

Deferred vested members covered under Section 399 are assumed to retire at age 62; those covered under 175 are assumed to retire at age 65 CaIPERS 1997-2007 Mortality Tables with Society of Actuaries Scale MP-2016

Mortality

Sacramento City Employees' Retirement System Schedule of Investment Returns

Last Ten Fiscal Years

(in thousands)

	2017	2016	2015	2014
Annual money weighted rate of return, net of investment expense	10.22%	3.05%	4.86%	14.56%

Notes to Schedule:

The information in this schedule is prepared in accordance with GASB Statement No. 67, *Financial Reporting for Pension Plans*, which SCERS implemented for the fiscal year ended June 30, 2014. Data is not available for the years prior to implementation so only four fiscal years are presented.

ADDITIONAL INFORMATION

SACRAMENTO CITY EMPLOYEES' RETIREMENT SYSTEM LISTING OF INVESTMENTS JUNE 30, 2017

Investments	Maturity Date	Quantity	Amortized Cost	Market Value
US GOVERNMENT OBLIGATION				
Gnma Pool #320296	3/15/2022	11,427	\$ 11,220	\$ 11,465
Gnma Pool #329837	11/15/2022	16,064	15,818	17,104
Gnma Pool #450066	12/15/2026	4,123	4,096	4,135
Gnma Pool #439515	3/15/2027	18,125	17,774	19,052
Gnma Pool #648348	10/15/2035	273,973	273,031	310,469
Gnma Pool #550718	11/15/2035	648,020	630,604	712,077
Gnma Pool #256393	9/1/2036	94,762	94,451	107,362
Sub-total	7/1/2050	94,762	1,046,994	1,181,663
CORPORATE BONDS			1,040,994	1,101,005
Apple Inc	2/9/2027	3,000,000	3,000,000	3,066,990
Chevron Corporation	3/3/2019	2,000,000	2,114,196	2,106,380
Goldman Sachs Group Inc	4/1/2018	6,000,000	5,976,202	6,192,540
Lehman Bros Hldg Inc Escrow				
-	12/29/2099	2,500,000	1,472,933	156,250
Lloyds Tsb Bk Plc	1/21/2021	5,000,000	5,136,918	5,622,350
Metlife Inc	8/15/2018	5,000,000	5,002,591	5,279,250
Verizon Communications Inc	3/15/2034	2,000,000	2,251,428	2,117,340
Barclays Bank Plc	2/17/2032	5,000,000	5,000,000	5,003,450
Citigroup Inc	7/22/2036	5,000,000	5,000,000	4,754,200
Goldman Sachs Group Inc	8/31/2036	3,000,000	2,982,036	2,849,520
Sub-total			37,936,305	37,148,270
EQUITIES - LARGE CAP GROWTH				
American Airls Grp Inc Com		13,000	511,388	654,160
Apple Inc.		8,000	733,159	1,152,160
Allergan Plc Shs		2,500	583,976	607,725
Amgen Inc		3,500	558,206	602,805
Amazon.com Inc.		1,400	692,714	1,355,200
Arista Networks Inc Com		4,000	264,965	599,160
Boeing Co Com		5,000	683,343	988,750
Bank Of America Corp		25,000	376,489	606,500
Blackrock Inc Com		1,500	524,317	633,615
Bristol Myers Squibb Com		9,000	641,544	501,480
Berkshire Hathaway Inc-Cl B		5,000	849,235	846,850
Citigroup Inc		10,000	479,223	668,800
Salesforce Com Inc Com		,	<i>,</i>	
		10,000	775,439	866,000
Delta Air Lines Del Com New		11,000	430,971	591,140
Facebook Inc Cl A		8,000	551,251	1,207,840
First Data Corp		40,000	499,232	728,000
General Electric Co		16,000	394,295	432,160
Alphabet, Inc. Cl C Capital Stock		1,400	687,613	1,272,222
Halliburton Co		16,000	846,298	683,360
Home Depot Inc		4,000	305,355	613,600
Helmerich & Payne Inc Com		10,000	649,904	543,400
Illumina Inc		4,000	704,984	694,080
Ingersoll-Rand Plc Shs		7,000	353,155	639,730
Jpmorgan Chase & Co		6,000	295,908	548,400
Southwest Airlines		10,000	380,312	621,400
MasterCard Incorporated		6,000	546,914	728,700
Medtronic Plc Shs		8,000	600,160	710,000
Nike Inc Cl B		8,000	394,124	472,000
Starbucks Corp		9,000	561,105	524,790
At&t Inc		23,000	716,193	867,790
Tjx Companies Inc		23,000 9,000	680,192	649,530
Unitedhealth Group Inc		3,500	421,420	648,970
U. S. Bancorp		10,000	354,486	519,200
Visa Inc Com Cl A		7,000	323,594	656,460
Verizon Communications Inc		15,000	481,694	669,900
Sub-total			18,853,158	25,105,877

UITIES - FIXED ALTERNATIVE EQUITIES			
Altria Group Inc	16,000	425,809	1,191,520
At&t Inc	22,000	958,159	830,060
Bank Of America Corp	60,000	916,178	1,455,600
Berkshire Hathaway Inc-Cl B	6,500	958,911	1,100,905
Blackrock Inc Com	1,300	506,662	549,133
Bristol Myers Squibb Com	19,000	1,116,827	1,058,680
Chevron Corporation	12,000	1,346,621	1,251,960
Cisco Sys Inc Com	37,000	966,168	1,158,100
Citigroup Inc	19,000	877,806	1,270,720
Dow Chem Co Com	15,000	948,323	946,050
Duke Energy Corp New Com New	12,000	675,966	1,003,080
Exxon Mobil Corporation	12,000	1,002,596	968,760
Ford Mtr Co	85,000	1,062,147	951,150
General Dynamics Corp	5,000	919,872	990,500
General Electric Co	35,000	1,042,488	945,350
General Mtrs Co Com	27,000	870,518	943,110
Helmerich & Payne Inc Com	14,000	945,662	760,760
Home Depot Inc	7,000	1,029,646	1,073,800
Honeywell	7,000	867,264	933,030
International Bus Mach	10,000	1,501,523	1,538,300
Johnson & Johnson	8,000	1,019,936	1,058,320
Jpmorgan Chase & Co	14,000	944,392	1,279,600
Lilly Eli & Co	16,000	1,169,411	1,316,800
Lockheed Martin Corp	7,500	1,016,037	2,082,075
Mcdonald's Corp	6,000	578,758	918,960
Merck & Co Inc (new)	20,000	1,042,959	1,281,800
Metlife Inc Com	18,000	905,278	988,920
Microsoft Corp	18,000	891,622	1,240,740
Pepsico Inc	8,000	931,102	923,920
Pfizer Inc	38,000	933,969	1,276,420
Philip Morris Intl Inc Com	12,000	580,904	1,409,400
Procter & Gamble Co	14,000	1,123,825	1,220,100
Prudential Finl Inc Com	16,000	1,269,822	1,730,240
Qualcomm Inc.	20,000	1,095,598	1,104,400
Raytheon Company	5,500	856,565	888,140
Union Pac Corp Com	9,000	985,804	980,190
United Technologies	7,000	811,149	854,770
Valero Energy Corp New Com	15,000	1,032,347	1,011,900
Verizon Communications Inc	18,000	1,016,467	803,880
Sub-total		37,145,090	43,291,143

EXCHANGE TRADED FUNDS				
Vaneck Vectors Etf Tr Gold Miners Etf		32,000	512,748	706,560
Ishares Tr Nasdq Bio Indx		6,000	1,638,772	1,860,480
Ishares Us Home Cons Etf		40,000	1,067,511	1,357,600
Ishares Russell 2000 ETF		23,000	2,556,226	3,241,160
Ishares US Healthcare ETF		24,000	1,425,374	3,990,240
Ishares US Basic Materials ETF		19,000	1,422,048	1,697,650
Ishares Tr Transp Ave Idx		12,000	1,444,982	2,064,840
Ishares US Technology ETF		20,000	1,463,683	2,794,400
Spdr Series Trust Kbw Regn Bk Etf		72,300	2,797,481	3,972,885
Vaneck Vectors Etf Tr Semiconductor Et		47,000	2,500,129	3,847,420
Spdr Tr Unit Ser 1		31,000	6,729,521	7,495,800
Vanguard Index Fds Reit Etf		14,000	1,163,746	1,165,220
Select Sector Spdr Tr Sbi Int-Energy		68,000	4,195,137	4,414,560
Select Sector Spdr Tr Sbi Int-Finl		235,000	4,476,784	5,797,450
Select Sector Spdr Tr Sbi Int-Inds		76,000	4,114,951	5,176,360
Select Sector Spdr Tr Technology		129,000	5,592,000	7,058,880
Select Sector Spdr Tr Sbi Cons Stpls		158,000	7,654,908	8,680,520
Select Sector Spdr Tr Rl Est Sel Sec		41,000	1,311,590	1,320,200
Select Sector Spdr Tr Sbi Int-Utils		39,000	1,623,799	2,026,440
Select Sector Spdr Tr Sbi Healthcare		62,200	4,276,077	4,928,728
Select Sector Spdr Tr Sbi Cons Discr		53,000	3,016,025	4,750,390
Spdr Series Trust S&p Retail Etf		26,000	1,139,934	1,058,720
Ishares MSCI Emerging Markets ETF		19,000	775,039	786,410
Ishares Msci Acwi Us Etf		213,000	8,682,231	9,710,670
Alps Etf Tr Alerian Mlp		125,000	1,519,188	1,495,000
Ishares Tr Russell 1000 Val		150,000	15,800,302	17,464,500
Ishares Tr U.S. Real Es Etf		24,000	1,887,205	1,914,480
Ishares Tr Us Pfd Stk Idx		40,000	1,562,803	1,566,800
Powershares Etf Tr Ii Pfd Portfolio		100,000	1,497,793	1,511,000
Select Sector Spdr Tr Sbi Int-Finl		32,000	782,394	789,440
Select Sector Spdr Tr Sbi Int-Utils		18,000	887,302	935,280
Spdr Series Trust S&p Bk Etf		52,200	1,744,271	2,271,744
Sub-total			97,261,954	117,851,827
MUNICIPAL BONDS				
Bay Area Toll Auth Calif Toll Toll Brid	4/1/2030	1,000,000	1,019,494	1,235,710
California St Go Bds	11/1/2026	2,000,000	2,000,000	2,520,440
California St Go Bds	3/1/2036	5,000,000	5,316,161	5,735,150
Houston Tex Arpt Sys Rev Arpt Sys	1/1/2028	5,000,000	4,606,594	6,056,550
Millbrae Calif Sch Dist	7/1/2020	500,000	534,161	539,065
Moreland Calif Sch Dist	8/1/2030	1,235,000	1,235,000	1,299,319
Pasadena Calif Wtr Rev	6/1/2031	3,000,000	2,958,848	3,115,020
Pasadena Calif Wtr Rev	6/1/2033	2,000,000	1,972,311	2,077,580
Riverside Calif Pub Fing Auth Tax Alloc	8/1/2017	325,000	324,773	325,507
Riverside Cnty Calif Redev Agy Tax Alloc	10/1/2037	3,000,000	3,013,458	3,372,810
Sacramento Calif Pub Fing Auth	4/1/2050	5,000,000	5,318,087	5,646,050
San Diego Cnty Calif Pension O	8/15/2017	635,000	638,587	638,632
San Francisco Calif City & Cnt Tax Alloc	8/1/2039	5,000,000	5,182,258	6,877,200
Union City Calif Cmnty Redev A	10/1/2030	250,000	245,033	261,320
Univ Calif Regts Med Ctr Poole	5/15/2031	2,350,000	2,482,772	2,972,891
University Calif Revs For Prev	5/15/2021	1,000,000	1,000,000	991,930
University Calif Revs For Prev	5/15/2031	5,755,000	6,413,422	6,390,179
Vermont State Build America Bonds Sub-total	8/15/2027	2,700,000	2,670,718	2,847,393
MORTGAGE LOANS			46,931,680	52,902,746
Walgreens Drugs/Adahi, Inc	5/1/2024	1,731,635	1,731,635	1,731,635
Sub-total	5/1/2027	1,751,035	1,731,635	1,731,635
			· .	
Total			\$ 240,906,815	\$ 279,213,162

APPENDIX A





City of Sacramento

Sacramento City Employees' Retirement System

June 30, 2017 Actuarial Valuation

November 3, 2017



ACTUARIAL VALUATION

CITY OF SACRAMENTO SACRAMENTO CITY EMPLOYEES' RETIREMENT SYSTEM (SCERS) DEFINED BENEFIT PLAN

We are pleased to present the results of our June 30, 2017 actuarial valuation of the Sacramento City Employees' Retirement System (SCERS).

The purpose of this valuation is to:

- Determine the System's June 30, 2017 Funded Status, and
- Calculate the fiscal year 2018/19 Actuarially Determined Contribution (ADC).

The information in this report may not be appropriate for purposes other than System funding but may be useful to the City for the System's financial management. Future valuations may differ significantly if the System's experience differs from our assumptions or if there are changes in plan design, actuarial methods or actuarial assumptions. The project scope did not include an analysis of this potential variation.

The valuation is based on the System's benefit provisions summarized in Section 9, employee data, and on the System's financial information, all furnished by the City. We reviewed the financial and employee data for reasonableness, including comparing to prior year data, but did not perform an audit.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. As members of the American Academy of Actuaries, meeting Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

May Uplet Relding

Mary Elizabeth Redding, FSA, MAAA, EA Vice President

Katherine Moore

Katherine Moore, ASA, MAAA Associate Actuary

Joanna D. Van Valer

Deanna Van Valer, ASA, MAAA, EA Assistant Vice President

TABLE OF CONTENTS

SECTION	PAGE
1. Executive Summary	1
2. Liability Information & Funded Status	4
3. Asset Information	7
4. Contribution Development	11
5. Schedule of Future Contributions	12
6. Actuarial Gain/Loss Analysis	13
7. Sensitivity Analysis	14
8. Headcount & Benefit Payment Projection	15
9. Plan Provisions	17
10. Methods and Assumptions	20
11. Participant Data	24

Following are the valuation results. See notes following the table for a description of terms. Results from the June 30, 2016 valuation are provided for comparative purposes.

	amounts i	n <u>\$000's</u>	
	June 30, 2016	June 30, 2017	% change
Participant Counts			
• Actives	16	16	0.0%
• Terminated Vesteds & Reciprocals	12	10	-16.7%
Service Retirees	641	608	-5.1%
• Disableds	140	124	-11.4%
Beneficiaries	329	327	-0.6%
• Total	1,138	1,085	-4.7%
Actuarial Liabilities			
• Present Value of Projected Benefits	\$ 366,391	\$ 337,099	-8.0%
Actuarial Accrued Liability	366,141	336,878	-8.0%
Assets			
• Market Value of Assets	285,170	288,509	1.2%
• Approximate Annual Rate of Return	2.7%	9.8%	
Actuarial Value of Assets	286,675	283,567	-1.1%
• Approximate Annual Rate of Return	6.2%	7.4%	
Plan Funded Status			
Actuarial Accrued Liability	366,141	336,878	-8.0%
• Actuarial Value of Plan Assets	286,675	283,567	-1.1%
• Unfunded Actuarial Accrued Liability	79,466	53,311	-32.9%
Funded Ratio	78.3%	84.2%	7.5%
• Funded Ratio, Market Value Basis	77.9%	85.6%	9.9%
Maturity Ratios			
• Inactive AAL/Total AAL	98.1%	98.0%	
Inactive Count/Total Count	98.6%	98.5%	_
	2017/18	2018/19	% change
Annual Cost ¹	8,267	5,268	-36.3%
Annual Cost (% Proj. Plan Payroll) ¹	1144.3%	734.6%	
Annual Cost (% Proj. City Payroll)	2.8%	1.7%	

1 See page 11 for details.



Purpose of Actuarial Valuation

The actual costs of a defined benefit plan are determined entirely by the amount of the benefit promise, the actual salaries and service of the plan participants, and how long they and their beneficiaries live to receive payments. An actuarial valuation is a mathematical model which attempts to quantify this actual cost by setting assumptions that, it is hoped, duplicate reality as closely as possible. In addition, the actuarial methodology provides a reasonable plan, or method, towards funding the expected plan costs. This information assists the plan trustees so they can make informed decisions regarding plan investments and how much in contributions will be required from the employer to eventually fully pay the plan's costs.

Summary Information & Results

The Sacramento City Employees' Retirement System (SCERS) is a closed defined benefit pension plan. It has not accepted new members since January 28, 1977, and only 16 active members (out of a total plan membership of 1,085) remain.

Since the last valuation, the plan experienced overall gains on liabilities and market assets. Plan liabilities decreased more than expected, by \$3.3 million. This was mostly due to retirees and beneficiaries not living as long as expected. Market value return on assets was greater than expected, about 9.8% for the year, resulting in a gain of \$3.2 million on the actuarial (smoothed) value of assets.

Several assumptions were changed since the prior valuation.

- The mortality improvement projection was updated to the Society of Actuaries most recent table, MP-2016. This decreased liabilities \$9.7 million.
- The inflation assumption was reduced from 3.00% to 2.75%. Assumptions that are dependent on inflation such as salary scale and the Social Security wage base have a very small impact since there are so few actives remaining. The largest impact is the resulting decrease in the future expected cost of living adjustments (COLA) to retiree benefits, which will be no greater than inflation once existing COLA banks are exhausted. The reduction in plan liabilities is \$6.5 million.
- The discount rate remains at 6.5%, although various offsetting factors changed its development. The target asset allocation changed to 35% fixed income and 65% equities a 5% smaller fixed income allocation than last year. Based on Bartel Associates' current capital market assumptions and assumed future inflation of 2.75%, we calculated the expected return after expenses to be 6.51%, at the 50th percentile confidence level. Based on this result, and current guidance recommending use of the 50th percentile confidence level, we recommend 6.50% as the discount rate. If a more conservative policy is desired, see the Sensitivity Analysis on page 14.

After the assumption changes, the July 1, 2017 total plan unfunded actuarial accrued liability (UAAL) is \$69.5 million, as compared to expected UAAL of \$76.1 million.

The plan's funded ratio on an actuarial value of assets basis is 84.2%, an increase from 78.3% in the prior valuation. The plan's funded ratio using market value of assets basis is 85.6%, an increase from 77.9% in the prior valuation.

The amortization period was changed from a rolling 14 year period to a rolling 13 year period beginning with this valuation, for the 2018/19 recommended contribution. The 3-year asset smoothing method provides some smoothing of contribution volatility. The City's contribution



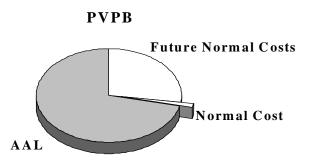


SECTION 1 EXECUTIVE SUMMARY

has decreased from \$8.267 million for fiscal year 2017/18 to \$5.268 million for fiscal year 2018/19. The prior valuation projected a 2018/19 contribution of \$7.920 million. The 2018/19 contribution is less than projected due to experience gains and gains from assumption changes, offset by the reduction in the amortization period.

Definitions

The Present Value of Projected Benefits (PVPB) is the present value of all future benefits for current plan participants. The Actuarial Accrued Liability (AAL) represents the portion of the PVPB attributable to past service. The AAL is recognized over service through the date a participant is expected to commence benefits. Therefore, the AAL is equal to the PVPB for current retirees. The Normal Cost is the portion of the PVPB allocated or earned during the year following the valuation date.







SECTION 2 LIABILITY INFORMATION & FUNDED STATUS

A comparison of the Present Value of Benefits, Actuarial Accrued Liability, Employer Normal Cost, and the Funded Ratio for the current and prior valuations follows. (Note that numbers throughout the report may not add due to rounding.)

	(amounts in \$000's)			
	June 30, 2016	June 30, 2017		
Present Value of Projected Benefits				
 Active Employees 	\$ 7,342	\$ 6,992		
 Vested Terminated & Reciprocals 	2,758	1,577		
 Service Retirees 	258,349	237,452		
 Disabled Participants 	41,692	36,722		
Beneficiaries	56,251	54,356		
Total	366,391	337,099		
Actuarial Accrued Liability				
 Active Employees 	\$ 7,092	\$ 6,771		
 Vested Terminated & Reciprocals 	2,758	1,577		
 Service Retirees 	258,349	237,452		
 Disabled Participants 	41,692	36,722		
 Beneficiaries 	56,251	54,356		
Total	366,141	336,878		
	2016/17	2017/18		
Normal Cost				
 Employer Normal Cost (beginning or year) 	of \$ 42	\$ 36		
year)				
	June 30, 2016	June 30, 2017		
Plan Funded Status				
Total Actuarial Accrued Liability	\$ 366,141	\$ 336,878		
 Actuarial Value of Plan Assets 	286,675	283,567		
 Unfunded Actuarial Accrued Liabili 	ity 79,466	53,311		
Funded Ratio	78.3%	84.2%		
Market Value of Assets	285,170	288,509		
 Funded Ratio – Market Value Basis 		85.6%		



SECTION 2 LIABILITY INFORMATION & FUNDED STATUS

Details of the June 30, 2017 Present Value of Benefits, Actuarial Accrued Liability and Employer Normal Cost by employee category:

	(amounts in \$000's)			
	Safety	Miscellaneous	Total	
Present Value of Projected Benefits				
 Active Employees 	\$ -	\$ 6,992	\$ 6,992	
 Vested Terminated & Reciprocals 	-	1,577	1,577	
 Service Retirees 	22,563	214,889	237,452	
 Disabled Participants 	16,326	20,395	36,722	
 Beneficiaries 	18,102	36,255	54,356	
■ Total	56,990	280,109	337,099	
Actuarial Accrued Liability				
 Active Employees 	-	6,771	6,771	
 Vested Terminated & Reciprocals 	-	1,577	1,577	
 Service Retirees 	22,563	214,889	237,452	
 Disabled Participants 	16,326	20,395	36,722	
Beneficiaries	18,102	36,255	54,356	
Total	56,990	279,887	336,878	

	Safety	Miscellaneous	Total	
Normal Cost				
 Employer Normal Cost (on June 30, 2017) 	\$-	\$ 36	\$ 36	





SECTION 2 LIABILITY INFORMATION & FUNDED STATUS

Details of the June 30, 2017 Present Value of Benefits, Actuarial Accrued Liability and Employer Normal Cost by benefit section:

Section 175	Sections 302 & 399	T (1
		Total
\$-	\$ 6,992	\$ 6,992
70	1,508	1,577
6,505	230,946	237,452
1,482	35,239	36,722
4,592	49,764	54,356
12,650	324,450	337,099
-	6,771	6,771
70	1,508	1,577
6,505	230,946	237,452
1,482	35,239	36,722
4,592	49,764	54,356
12,650	324,228	336,878
	70 6,505 1,482 4,592 12,650 - 70 6,505 1,482 4,592	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

	Section 175	Sections 302 & 399	Total
 Normal Cost Employer Normal Cost (on 6/30/17) 	\$ -	\$ 36	\$ 36





Assets for SCERS are held in trust. Trust monies may be used to pay benefits to plan participants and their beneficiaries. The trust is managed under the direction of the Administration, Investment, and Fiscal Management Board. Asset information is provided by the City of Sacramento, and has not yet been audited.

Asset Reconciliation – Market Value of Assets

Following reconciles the June 30, 2015 through June 30, 2016 and the June 30, 2016 through June 30, 2017 market value of assets.

	(amounts in \$000's)				
	2015/	2015/16		17	
Beginning of Year Balance:		\$ 301,263		\$ 285,170	
Member Contributions	\$ 146 ²		\$ 64		
City Contributions	8,645		8,645		
• Investment Income	8,937		27,987		
Total Additions		17,728		36,696	
Benefit Payments	32,633		32,171		
Member Refunds	50		-		
• Investment Expenses	1,138		1,186		
Total Deductions		33,821	_	33,357	
Net Assets at End of Year		285,170		288,509	
Approximate Return on Assets		2.7%		9.8%	

² Includes \$77,000 in member contributions for a deficit account buyback



Asset Allocation – Market Value of Assets

The July 1, 2017 trust asset allocation is provided by the City of Sacramento and based on an allocation strategy of 35% fixed income and 65% equity. Details are shown below.

		(amounts in \$000's)	
		Market Value	Percentage
Cash & Short Term Investments		\$ 8,601	3.0%
Receivables		1,600	0.5%
Investments			
• US Agencies	\$ 1,182		0.4%
Corporate Bonds	37,148		12.9%
• Equities	124,268		43.1%
• Exchange Traded Funds	61,981		21.5%
Mortgage Loans	52,903		18.3%
Municipal Bonds	1,731	_	0.6%
 Total Investments 		279,213	
Total Assets		289,414	
 Other Liabilities Payable 		(905)	-0.3%
Net Pension Benefit Trust Assets		288,509	100.0%

Target Allocation by Asset Class

The Administration, Investment and Fiscal Management Board of the Sacramento City Employees' Retirement System most recently adopted a new asset allocation May 1, 2017, as shown below. The fund is rebalanced each year.

	Prior Alle	ocation	Current All	ocation
■ Fixed Bonds/Real Estate	40%		35%	
Total Fixed		40%		35%
 Large Cap Growth 	35%		35%	
 Equity Income 	20%		25%	
International Equities	5%		5%	
Total Equity		60%		65%
Total Fixed & Equity		100%		100%



Discount Rate Development

We recommend the following discount rate assumption for the June 30, 2017 valuation, based upon a 50% confidence level:

Confidence Level	50%	55%	60%
 Inflation Adjusted Return 	6.81%	6.48%	6.14%
■ Investment Expenses ³	<u>0.30%</u>	<u>0.30%</u>	<u>0.30%</u>
 Net Return after Expenses 	6.51%	6.18%	5.84%
Discount Rate Assumption	6.50%		

³ Based on average investment expenses for a typical passive investment strategy. This is not plan specific.





Development of Actuarial Value of Assets

The Actuarial Value of Assets is based upon a three year smoothing of market assets. This method reduces volatility in contribution rates, and also reduces volatility in the size of the actuarial gains and losses due to asset returns. Because the plan is frozen to new membership and the membership is primarily composed of retirees and beneficiaries, it is important from a cash flow perspective that asset values used in calculating contribution rates not stray too far from market value. For this reason, a corridor of 15% around the market value is imposed upon the actuarial value.

	(
	2016/17
Actuarial Value of Assets, Beginning of Year	\$ 286,675
Contributions	8,709
Expected Earnings	17,883
Benefit Payments	(32,171)
 Expected Actuarial Value of Assets, End of Year 	281,096
 Market Value of Assets, End of Year 	288,509
 Difference between MVA & Expected AVA 	7,413
Preliminary Actuarial Value of Assets, End of Year	
(Expected AVA+ 1/3 Difference)	283,567
 Actuarial Value of Assets Corridor 	
• Cap: 115% of Market Value	331,785
• Min: 85% of Market Value	245,233
Actuarial Value of Assets, End of Year	
(No greater than Cap, not less than Min)	283,567
 Approximate Annual Rate of Return 	7.4%

(amounts in \$000's)





Actuarially Determined Contribution

Following is the development of the 2018/19 Actuarially Determined Contribution. The 2017/18 Actuarially Determined Contribution was calculated in the June 30, 2016 actuarial valuation and is shown for comparison.

	(amounts in \$00	0's)
Contribution Year	2017/18	2018/19
• Actuarially Determined Contribution		
 Actuarially Determined Contribution 		
Employer Normal Cost	\$ 30	\$ 25
• UAAL Amortization ⁴	8,236	5,243
Total Cost	8,267	5,268
Projected Plan Payroll	722	717
 Actuarially Determined Contribution (as a percent of plan payroll) 		
Employer Normal Cost	4.2%	3.5%
UAAL Amortization	1140.1%	731.1%
Total Contribution	1144.3%	734.6%
 Projected Total City Payroll 	295,629	306,862
 Actuarially Determined Contribution 		
(as a percent of total City payroll)		
• Employer Normal Cost	0.0%	0.0%
UAAL Amortization	2.8%	1.7%
Total Contribution	2.8%	1.7%

⁴ The Unfunded Actuarial Accrued Liability (UAAL) as of the beginning of the contribution year is being amortized as a level dollar amount over a14 year period for 2017/18 and a rolling 13 year period for 2018/19. As the plan continues to mature, this amortization period will be monitored.



SECTION 5 SCHEDULE OF FUTURE CONTRIBUTIONS

Below are the historic and projected contributions and benefit payments. City contributions for years ending 6/30/2020 and later are estimated assuming 6/30/18 and subsequent market value of assets earn 6.5% and assuming the Actuarially Determined Contribution is contributed each year. These contributions are designed to achieve 100% funding of the system.

	Member		
Year Ending ⁵	Contributions	City Contributions	Benefit Payments
6/30/1991	1,704,000	6,017,000	20,400,000
6/30/1992	1,818,000	2,984,000	22,000,000
6/30/1993	1,672,000	857,000	23,042,000
6/30/1994	1,432,000	0	24,165,000
6/30/1995	1,320,000	0	24,565,000
6/30/1996	1,228,000	0	25,027,000
6/30/1997	1,080,000	0	23,274,000
6/30/1998	1,090,000	0	23,825,000
6/30/1999	1,136,000	0	24,249,000
6/30/2000	1,079,000	06	24,901,000
6/30/2001	989,000	0	25,087,000
6/30/2002	1,011,000	0	25,588,000
6/30/2003	978,000	0	26,619,000
6/30/2004	1,056,000	0	26,772,000
6/30/2005	809,000	0	27,524,000
6/30/2006	789,000	0	28,749,000
6/30/2007	699,000	0	29,604,000
6/30/2008	596,000	3,534,000	29,896,000
6/30/2009	607,000	3,159,000	30,707,000
6/30/2010	377,000	3,431,000	31,719,000
6/30/2011	342,000	10,547,000	33,003,000
6/30/2012	332,000	10,361,000	33,057,000
6/30/2013	219,000	10,573,000	33,237,000
6/30/2014	161,000	9,649,000	33,688,000
6/30/2015	82,000	9,183,000	33,791,000
6/30/2016	69,000	8,645,000	32,683,000
6/30/2017	64,000	8,645,000	32,171,000
6/30/2018	66,000	8,267,000	31,967,000
6/30/2019	45,000	5,268,000	31,688,000
6/30/2020	30,000	4,851,000	31,293,000
6/30/2021	19,000	4,497,000	30,788,000
6/20/2022	12,000	4,192,000	30,191,000

⁵ Information prior to 6/30/2006 valuation is taken from prior actuary's valuation report. Member contributions and benefit payments for years ending 6/30/2018 and later are estimated.

⁶ Shown as a negative 1.367 million by prior actuary.



The gain/loss analysis of plan assets, actuarial liability, and unfunded actuarial liability for the one year period between valuation dates:

	(ar	mounts in \$000's)	
	Actuarial Accrued Liability (Gain)/Loss	Actuarial Value of Assets Gain/(Loss)	Unfunded Actuarial Accrued Liability (Gain)/Loss
■ June 30, 2016 Actual Value	\$ 366,141	\$ 286,675	\$ 79,466
■ June 30, 2017 Expected Value	356,431	280,352	76,079
■ Demographic (Gain)/Loss ⁷	(3,307)		
 Investment Gain 		2,905	
• Contributions greater than expected		310	
■ Total (Gain)/Loss			(6,522)
June 30, 2016 Prior to Changes in Assumptions	353,124	283,567	69,557
 Change in Mortality Improvement Assumption 	(9,743)		
 Change in Inflation Assumption/ Decrease in Future Retiree COLA 	(6,503)		
 Total (Gain)/Loss from Assumption Changes 			(16,246)
■ June 30, 2017 Actual Value	336,878	283,567	53,311



⁷ Primarily due to more retiree and beneficiary deaths than expected.

The Plan's June 30, 2017 funded status and 2018/19 fiscal year contribution are shown below at 5.5%, 6.0%, 6.5% and 7.5% discount rates.

		(amounts i	n \$000's)	
Discount Rate	5.5%	6.0%	6.5%	7.5%
Present Value of Projected BenefitsFunded Status	\$ 365,137	\$ 351,044	\$ 337,099	\$ 312,901
Actuarial Accrued Liability	364,842	350,789	336,878	312,733
• Actuarial Value of Assets	283,567	283,567	283,567	283,567
• Unfunded Actuarial Accrued Liability	81,275	67,222	53,311	29,166
Funded Ratio	77.7%	80.8%	84.2%	90.7%
2018/19 Actuarially Determined Contri-	ibution			
Employer Normal Cost	45	34	25	11
• UAAL Amortization ⁸	8,072	6,699	5,243	2,496
Total Contribution	8,117	6,733	5,268	2,507
• Total Employer Contribution (as a percent of Plan payroll)	1131.9%	938.9%	734.6%	349.5%
• Total Employer Contribution (as a percent of total City payroll)	2.6%	2.2%	1.7%	0.8%

The Plan's 2018/19 fiscal year contribution would increase if the amortization period of the Unfunded Actuarial Accrued Liability were shorter. Shown below are results based on the current 13-year period, as well as for 14, 12 and 10 year periods.

		(amounts	in \$000's)	
Amortization Years	14	13	12	10
 2018/19 Actuarially Determined Contribution 				
• Employer Normal Cost	\$ 25	\$ 25	\$ 25	\$ 25
UAAL Amortization	5,002	5,243	5,526	6,272
• Total Employer Contribution	5,027	5,268	5,551	6,297
• Total Employer Contribution (as a percent of Plan payroll)	701.0%	734.6%	774.2%	878.1%
• Total Employer Contribution (as a percent of total City payroll)	1.6%	1.7%	1.8%	2.1%

⁸ 13 year period



SECTION 8 HEADCOUNT AND BENEFIT PAYMENT PROJECTION

Fiscal Year	Active	Term Vested	Retiree	Benefit Payments
Ending June 30,	Count	Count	Count	(000's)
2018	16	10	1,059	\$ 31,967
2019	11	10	1,032	31,688
2020	7	10	1,002	31,293
2021	4	10	968	30,788
2022	2	10	932	30,191
2023	2	10	894	29,544
2024	1	10	856	28,830
2025	1	10	817	28,069
2026	0	10	778	27,265
2027	0	10	739	26,427
2028	0	10	701	25,555
2029	0	9	663	24,658
2030	0	9	625	23,735
2031	0	9	588	22,788
2032	0	9	552	21,818
2033	0	9	516	20,825
2034	0	8	481	19,810
2035	0	8	447	18,774
2036	0	8	414	17,719
2037	0	8	382	16,647
				,
2038	0	7	351	15,562
2039	0	7	320	14,469
2040	0	6	291	13,375
2041	0	6	263	12,286
2042	0	5	236	11,212
2043	0	5	211	10,161
2044	0	4	187	9,140
2045	0	4	165	8,159
2046	ů 0	3	144	7,224
2047	0	3	125	6,344
	0	5	120	0,211

Headcount and Benefit Payment Projection





SECTION 8 HEADCOUNT AND BENEFIT PAYMENT PROJECTION

Fiscal Year Ending June 30,	Active Count	Term Vested Count	Retiree Count	Benefit Payments (000's)
2048	0	3	107	\$ 5,524
2049	0	2	92	4,766
2050	0	2	77	4,074
2051	0	1	65	3,451
2052	0	1	54	2,898
2053	0	1	44	2,413
2054	0	1	36	1,995
2055	0	0	30	1,640
2056	0	0	24	1,341
2057	0	0	19	1,094
2058	0	0	15	892
2059	0	0	12	731
2060	0	0	10	604
2061	0	0	8	507
2062	0	0	6	434
2063	0	0	5	380
2064	0	0	4	339
2065	0	0	3	308
2066	0	0	3	283
2067	0	0	2	263





A. Plan Effective Date

Originally established effective April 1, 1935.

B. Plan Year

July 1 to June 30.

C. Participation

The plan is closed with no new members since January 28, 1977.

D. Eligibility to Retire

<u>Section 175</u>: Age 70, or age 55 and 20 years of service. <u>Sections 302 and 399</u>: Age 70, or age 50 and 5 years of service.

E. Vesting

100% vesting with five years of participation.

F. Average Monthly Compensation

Average monthly salary for the 36 months prior to termination.

G. Employee Contributions

Each participant contributes a certain percentage based on his or her age at entry into the plan.

H. Service Retirement Benefit

Section 175:

Average Monthly Compensation times years of service times Benefit Factor. For retirement after age 65 with 20 years of service, benefit is a minimum of \$60 per month.

Sections 302 and 399:

Average Monthly Compensation times years of service times Benefit Factor, but no larger than 75% of final average earnings.

Benefit Factors at sample ages:

<u>Retirement Age</u>	Section 175	Sections 302 and 399
50	n/a	1.10%
55	1.10%	1.75%
60	1.67%	2.40%
65	2.44%	2.40%





I. Vested Termination Benefit

Return of employee contributions with interest, or if the value is greater than \$500, the member may choose to leave the contributions in the system. The member may become eligible in the future for retirement, disability or death benefits.

J. Non-Industrial (Ordinary) Disability Benefit

Eligibility is ten years of service.

Section 175:

With 16 2/3 years of service: $1\frac{1}{2}$ % of final average salary times years of service to disability.

<u>Less than 16 2/3 years of service</u>: Minimum of $1\frac{1}{2}$ % of final average salary times years of service would have earned to age 60, or 25% of final average earnings.

Sections 302 and 399:

<u>Not Eligible for Retirement</u>: Lesser of $1\frac{1}{2}\%$ of Final Average Earnings times years of service or final average earnings times benefit factor at age 50 times years of service at age 50, minimum of 25% of final average earnings.

<u>Eligible for Retirement</u>: Maximum of retirement allowance or 25% of final average earnings.

K. Industrial Disability Benefit

Sections 302 and 399:

Not Eligible for Retirement: 50% of final average earnings.

<u>Eligible for retirement</u>: Maximum of retirement allowance or 50% of final average earnings.

L. Death Benefit – Pre Retirement Eligibility

Return of employee contributions with interest, plus 1/12 of salary in the year preceding death multiplied by the smaller of 6 or years of service.

M. Death Benefit – Post Retirement Eligibility

50% of the member's benefit as if the member retired at the time of death, paid as a lifetime benefit to the spouse.

N. Death Benefit – Post Retirement Death

\$500 paid to the member's estate upon death.





O. Social Security Reduction at age 62

For members participating in Social Security, their benefit will be reduced at the later of age 62 or actual retirement age. The amount of the reduction is one half of the PIA from Social Security, multiplied by the ratio of the sum of salary earned from the City to the sum of salary from all sources used in the calculation of the Social Security amount. The member's benefit under the System plus the amount received from Social Security cannot be less than the member's benefit under the System calculated with no reductions as of his retirement age. The City applies this offset to service retirees, not to disabled retirees.

P. Reduction Account

A member can choose to reduce his normal contributions to the System by an amount equal to the taxes paid for Social Security coverage. At the time of retirement, the regular retirement benefit will be reduced by the actuarial equivalent of the accumulated value of the reduction of contributions.

Q. Cost of Living

Benefits will be increased each July 1 by the change in the CPI for the San Francisco/Oakland area for the preceding calendar year limited to 3% (with COLA bank).

R. Benefit Forms

Section 175:

Lifetime benefit to the member, which may be actuarially reduced to provide a continuance to a beneficiary.

Section 302 and 399:

Lifetime benefit to the member, with an automatic 50% continuance to the spouse.





Actuarial Methods

The actuarial cost method used for this valuation is the Entry Age Normal (EAN) method. The Present Value of Projected Benefits (PVPB) is the present value of all future benefits for current plan participants. The Actuarial Accrued Liability (AAL) represents the portion of the PVPB attributable to past service. The AAL is recognized over service through the date a participant is expected to commence benefits.

The current unfunded AAL is amortized over a 13 year rolling period as a level dollar amount. Because the plan is closed the amortization period should be regularly reviewed. The Board has regularly reduced the amortization period in the recent past. Under current Board policy, when the average future life expectancy of the plan participants drops below 5 years, the amortization period will be reduced to no more than 5 years.

Plan funded status based on excess of

- 1) Value of Normal Retirement Benefit in excess of employee contributions over
- 2) Actuarial Value of Assets

The contribution generated by the current valuation will be payable for the City's fiscal year beginning one year later (2018/19). The June 30, 2016 valuation generated a contribution for fiscal year 2017/18.

The Actuarial Value of Assets is a 3-year smoothed market value. Gains and losses will be recognized over a three year period. For June 30, 2006, the first year of this method, the Actuarial Asset Value was set equal to the Market Value. The Actuarial Value of Assets will be limited by a 15% corridor. The Actuarial Value of Assets will be no greater than 115% of Market Value of Assets and no less than 85% of Market Value of Assets.

Data

The City provided participant data as of 7/1/2017. We reviewed the data, but did not perform an audit.

Basis for Assumptions

Mortality assumptions are based on CalPERS 1997-2011 experience study. Mortality improvement is the Society of Actuaries Scale MP-2016. Inflation is based on our estimate for the plan's very long time horizon.





SECTION 10 METHODS AND ASSUMPTIONS

Actuarial Assumptions

Assumptions used in the valuation are as follows:

Discount Rate

6.50% net of investment expenses⁹, based on a 50% confidence level

Inflation

2.75%

Prior valuation: 3.00%

Salary Scale

2.75% CPI

0.50% Merit

Prior valuation: 3.00% for CPI and 0.50% for merit.

Social Security Wage Base

3.00%

Prior valuation: 3.25%.

Termination

None assumed. All active employees are retirement-eligible.

Retirement

Rates vary based on age. Sample rates follow:

Age	<u>Non Sec 175</u>
55	6%
60	26%
65	40%
70	100%

Disability

Rates vary based on age, gender and if the disability is job-related or not. Sample rates follow:

	<u>Job R</u>	elated	<u>Ordi</u>	<u>nary</u>
	Male	Female	Male	Female
59	.00612	.00336	.01683	.00924
60	.00639	.00351	.01761	.00969
61	.00000	.00000	.00000	.00000

⁹ Administrative expenses are not paid from plan assets.



Healthy Mortality

CalPERS 1997-2011 Pre-Retirement Mortality table for males and females and CalPERS 1997-2011 Post-Retirement Mortality table for males and females. Sample rates are as follows:

	Pre-Ret	irement	Post-Re	tirement
Age	Male	Female	Male	<u>Female</u>
50	0.16%	0.11%	0.53%	0.49%
60	0.35%	0.22%	0.82%	0.53%
70	0.71%	0.47%	1.77%	1.26%
80	1.34%	1.04%	5.28%	3.69%
90	n/a	n/a	16.19%	12.34%
100	n/a	n/a	34.55%	31.88%

Post-Retirement Disabled Mortality

For Miscellaneous retirees, CalPERS 1997-2011 Non-Work-Related Disability table for males and females. For Safety retirees, CalPERS 1997-2011 Work-Related Disability table for males and females. Sample rates are as follows:

	Non-Work-	-Related	Work-R	Related
Age	Male	<u>Female</u>	Male	Female
50	1.78%	1.23%	0.53%	0.49%
60	2.63%	1.51%	0.87%	0.63%
70	3.89%	2.81%	2.21%	1.78%
80	8.23%	6.02%	6.63%	4.98%
90	18.47%	16.08%	16.19%	12.34%
100	34.55%	31.88%	34.55%	31.88%

Mortality Improvement Projection

Mortality projected fully generational with Society of Actuaries Scale MP-2016.

Prior valuation used mortality projected fully generational with Society of Actuaries Scale MP-2014 modified to converge to ultimate improvement rates in 2022.

Social Security Offset

Monthly benefits for current retirees and vested terminated assumed to decrease at the later of age 62 or actual retirement, based on the average expected offset of future retirees.

Marriage

85% of male employees and 60% of female employees are assumed to be married. Wives are assumed to be four years younger than husbands.





Retirement Age

Deferred vested members covered under Section 399 are assumed to retire at age 62; those covered under Section 175 are assumed to retire at age 65.

Reciprocal Members

All remaining deferred vested members are assumed to have reciprocity with other retirement systems, and their pay is assumed to increase with salary scale after separation from the City.





Data Summary

Following summarizes participant demographic information for the June 30, 2016 and June 30, 2017 actuarial valuations.

	June 30, 2016	June 30, 2017
Participant Counts		
Actives	16	16
Terminated Vesteds	9	7
Reciprocals	3	3
Service Retirees	641	608
• Disableds	140	124
• Beneficiaries ¹⁰	329	327
• Total	1,138	1,085
■ Actives		
• Average Age	62.2	63.2
Average Service	33.9	34.9
• Salary		
> Total	\$ 1,019,832	\$ 1,049,044
> Average	63,740	65,565
Overall City Payroll	275,973,000	287,848,000
Terminated Vesteds & Reciprocals		
• Average Age	65.9	67.0
Retirees, Disableds & Beneficiaries		
• Average Age	77.5	77.8
• Average Monthly Benefit	\$ 2,463	\$ 2,537
• Life expectancy	12.9	12.3

¹⁰ The June 30, 2017 valuation includes one former spouse of a deceased retiree whose eligibility for benefits is under review by the City Attorney. The valuation assumes the former spouse's benefit is 50% of the retiree's July 1, 2016 monthly benefit increased with 3% COLA.



June 30, 2017 Participant Data

Following summarizes participant demographic information for the June 30, 2017 actuarial valuation, broken out by employee category and benefit section.

	0,				
	Safety		Misce		
	Section 175	Section 302 & 399	Section 175	Section 302 & 399	Total
Actives					
• Count	-	-	-	16	16
• Average Age	n/a	n/a	n/a	63.2	63.2
Average Service	n/a	n/a	n/a	34.9	34.9
• Salary					
Average	\$ -	\$ -	\$ -	\$ 65,565	\$ 65,565
Total (000's)	-	-	-	1,049	1,049
Vested Terms & Reciprocals					
• Count	-	-	1	9	10
• Average Age	n/a	n/a	66.6	67.1	67.0
All Inactives					
• Count	25	178	35	821	1,059
• Average Age	84.8	82.4	82.2	76.4	77.8
• Avg. Monthly Benefit	\$ 2,503	\$ 3,140	\$ 1,676	\$ 2,445	\$ 2,537
Service Retirees					
• Count	9	56	16	527	608
• Average Age	87.4	87.7	81.4	75.6	77.0
• Average Retirement Age	54.7	55.2	63.4	59.6	59.2
• Avg. Monthly Benefit	\$ 3,009	\$ 4,807	\$ 2,113	\$ 2,923	\$ 3,077
Disabled Retirees					
• Count	4	42	4	74	124
• Average Age	88.8	75.3	81.3	73.7	75.0
• Average Retirement Age	51.4	41.6	50.0	48.5	46.3
• Avg. Monthly Benefit	\$ 2,897	\$ 2,821	\$ 1,291	\$ 2,052	\$ 2,315
Beneficiaries					
• Count	12	80	15	220	327
• Average Age	81.6	82.5	83.3	79.2	80.3
• Avg. Monthly Benefit	\$ 1,992	\$ 2,140	\$ 1,313	\$ 1,430	\$ 1,619



SECTION 11 PARTICIPANT DATA

Data Reconciliation 6/30/2016 to 6/30/2017

		Terminated		Receiving Payments			
	Actives	Vested	Reciprocal	Disabled	Benefic.	Retirees	Total
■ June 30, 2016	16	9	3	140	329	641	1,138
• New Hires	-	-	-	-	-	-	-
• Disabled	-	-	-	-	-	-	-
• Terminated	-	-	-	-	-	-	-
• Deceased	-	-	-	(16)	(31)	(35)	(82)
New Beneficiaries	-	-	-	-	29	-	29
• Retired	-	(2)	-	-	-	2	-
• Adjustment/Cash Out							
June 30, 2017	16	7	3	124	327	608	1,085





Active Age/Service

Following are active counts by age and service groups:

Service									
Age	0-4	5-9	10-14	15-19	20-24	25-29	30 & Over	Total	
Under 25	-	-	-	-	-	-	-	-	
25-29	-	-	-	-	-	-	-	-	
30-34	-	-	-	-	-	-	-	-	
35-39	-	-	-	-	-	-	-	-	
40-44	-	-	-	-	-	-	-	-	
45-49	-	-	-	-	-	-	-	-	
50-54	-	-	-	-	-	-	-	-	
55-59	-	-	-	-	-	-	1	1	
60-64	-	-	-	1	-	2	9	12	
65 & Over	-	-	-	-	-	1	2	3	
Total	-	-	-	1	-	3	12	16	





Inactives Age/Status/Monthly Benefit

Following are inactive counts and monthly benefit by age and status.

Safety					
Age		Service Retirees	Disability Retirees	Beneficiaries	Total
Under 50	Count	-	-	-	-
	Avg. Benefit	-	-	-	-
50-54	Count	-	-	-	-
	Avg. Benefit	-	-	-	-
55-59	Count	-	-	-	-
	Avg. Benefit	-	-	-	-
60-64	Count	-	-	-	-
	Avg. Benefit	-	-	-	-
65-69	Count	-	4	6	10
	Avg. Benefit	-	2,966	1,828	2,283
70-74	Count	3	18	11	32
	Avg. Benefit	3,838	2,723	1,995	2,577
75-79	Count	3	11	17	31
	Avg. Benefit	2,842	2,712	2,271	2,483
80-84	Count	7	8	19	34
	Avg. Benefit	4,077	2,979	2,057	2,689
85 & Over	Count	52	5	39	96
	Avg. Benefit	4,764	3,103	2,167	3,622
Total	Count	65	46	92	203
	Avg. Benefit	4,558	2,827	2,121	3,061



SECTION 11 PARTICIPANT DATA

Miscenaneous						
Age		Service Retirees	Disability Retirees	Beneficiaries	Total	
Under 50	Count	-	-	1	1	
	Avg. Benefit	-	-	650	650	
50-54	Count	-	-	3	3	
	Avg. Benefit	-	-	1,431	1,431	
55-59	Count	1	1	4	6	
	Avg. Benefit	3,629	2,995	860	1,678	
60-64	Count	41	13	16	70	
	Avg. Benefit	3,262	2,075	1,218	2,574	
65-69	Count	108	16	27	151	
	Avg. Benefit	2,962	2,387	1,550	2,649	
70-74	Count	131	12	32	175	
	Avg. Benefit	2,940	1,763	1,579	2,610	
75-79	Count	98	15	32	145	
	Avg. Benefit	2,834	2,227	1,475	2,472	
80-84	Count	75	11	40	126	
	Avg. Benefit	2,931	1,602	1,738	2,436	
85 & Over	Count	89	10	80	179	
	Avg. Benefit	2,632	1,665	1,217	1,946	
Total	Count	543	78	235	856	
	Avg. Benefit	2,899	2,013	1,423	2,413	

Miscellaneous









City of Sacramento

Sacramento City Employees' Retirement System

June 30, 2017 GASBS 67 & 68 Reporting

November 3, 2017



GASBS 67 & 68 REPORTING

CITY OF SACRAMENTO SACRAMENTO CITY EMPLOYEES' RETIREMENT SYSTEM (SCERS) DEFINED BENEFIT PLAN

This report presents reporting and disclosure information for the Sacramento City Employees' Retirement System (SCERS) for the fiscal year ending June 30, 2017 to assist the City in preparing financial statement information in accordance with Governmental Accounting Standards Board Statements Nos. 67 and 68 (GASBS 67 and 68).

The report provides information intended for reporting under GASBS 67 and 68, but may not be appropriate for other purposes. Information provided in this report may be useful to the City for the System's financial management. Future results may differ significantly if the System's experience differs from our assumptions or if there are changes in plan design, actuarial methods, or actuarial assumptions. The project scope did not include an analysis of this potential variation.

This report is based on our June 30, 2017 actuarial valuation of the System and our report dated October 2017 which contains complete details of that valuation and is to be considered a part of this report.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. Additionally, in our opinion, actuarial methods and assumptions comply with GASBS 67 and 68. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

May Uplich Relding

Mary Elizabeth Redding, FSA, MAAA, EA Vice President

Deanna D. Van Vales

Deanna Van Valer, ASA, MAAA, EA Assistant Vice President

Kathering, Moore

Katherine Moore, ASA, MAAA Associate Actuary

TABLE OF CONTENTS

SECTION	PAGE
1. GASBS 67 & 68 Applicable Dates	1
2. GASBS 67 and 68 Note Disclosures	2
3. GASBS 67 and 68 Required Supplementary Information	4
4. GASBS 68 Additional Note Disclosures	6
5. GASBS 68 Supporting Calculations	8

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SECTION 1 GASBS 67 & 68 APPLICABLE DATES

Applicable Dates and Periods

Fiscal Year End	June 30, 2017		
Reporting Standard	GASBS 67	GASBS 68	
Reporting date ¹	June 30, 2017	June 30, 2017	
 Reporting period 	FY 2017	FY 2017	
Measurement date ²	N/A	June 30, 2017	
 Measurement period 	N/A	July 1, 2016 to June 30, 2017	
Actuarial valuation date ³	June 30, 2017	June 30, 2017	

³ Within 30 months of fiscal year end.





¹ Employer's or plan's fiscal year-end.

² No earlier than employer's prior fiscal year end.

SECTION 2 **GASBS 67 AND 68 NOTE DISCLOSURES**

Exhibit 1: Notes to Financial Statements (\$000's)

Fiscal Year Ending				
	6/30/17 6/30/16			
Total pension liability (TPL)	\$336,878	\$366,141		
Fiduciary net position (FNP)	288,509	285,170		
Net pension liability (NPL)	48,369	80,971		
Funded status (FNP/TPL)	85.6%	77.9%		

- 6.5%, net of investment expenses
 - 2.75%
 - **3.25%**
- Mortality Assumption for Service ■ CalPERS 1997-2011 Post-Retirement Mortality retirements & beneficiaries Table projected fully generational with Society of Actuaries Scale MP-2016.
 - CalPERS 1997-2011 Mortality Table for non-work Disabled Retirees for Miscellaneous and CalPERS 1997-2011 Mortality Table for work-related Disabled Retirees for Safety. Both tables were projected fully generational with Society of Actuaries Scale MP-2016.

Changes of assumptions and changes in experience affecting the measurement of the Total Pension Liability since the prior measurement date

Inflation was changed from 3.0% to 2.75%.

Mortality Assumption for Disability

Salary scale was changed from 3.5% to 3.25%.

Mortality improvement was changed from fully generational projection with Society of Actuaries Scale MP-2014 modified to converge to ultimate improvement rates in 2022 to Society of Actuaries Scale MP-2016

Discount rate

■ Inflation Rate

retirements

■ Salary Scale

The discount rate was set equal to the long-term expected rate of return. The long-term expected rate of return was used since current assets, future City contributions, and future member contributions are projected to be sufficient to cover all future benefit payments and expenses. This "crossover test" was performed in accordance with the requirements specified in GASB Statement 67, including a projection that the Plan's funding policy will remain unchanged⁴. No administrative expenses were assumed to be paid from Trust assets since the City Charter requires the City to pay all administrative expenses.

⁴ The current policy includes a change in the amortization period from 13 years to 5 years when the average future life expectancy of plan participants is below 5 years.



The 6.5% long-term expected rate of return was derived based on the inflation assumption of 2.75% and a long-term asset allocation of 65% equities and 35% fixed income. The geometric real rates of return were assumed to be 4.82% for equities and 1.47% for fixed income.

Date of actuarial valuation

The June 30, 2017 Total Pension Liability is based on an actuarial valuation as of June 30, 2017.

Sensitivity of the net pension liability to a 1% change in the discount rate

	1% Decrease	Discount Rate	1% Increase
	5.5%	6.5%	7.5%
Net Pension Liability (NPL)	\$76,333	\$48,369	\$24,224





SECTION 3

GASBS 67 AND 68 REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Changes in Net Pension Liability & Related Ratios⁵ (Amounts in \$000's)

Fiscal Year	2016/17
Total Pension Liability	
Service cost	\$ 96
Interest	22,759
Changes of benefit terms	0
Differences between expected and actual experience	(3,701)
Changes of assumptions	(16,246)
Benefit payments	(32,171)
Net change in Total Pension Liability	(29,263)
Total Pension Liability at beginning of year	366,141
Total Pension Liability at end of year	336,878
Fiduciary Net Position	
Contributions - employer	8,645
Contributions - member	64
Net investment income	26,801
Benefit payments	(32,171)
Administrative expenses	0
Other income	0
Net change in Fiduciary Net Position	3,339
Fiduciary Net Position at beginning of year	285,170
Fiduciary Net Position at end of year	288,509
Net Pension Liability (Asset) at end of year	48,369
Fiduciary Net Position as percentage of Total Pension Liability	85.6%
Covered-employee payroll	TBD
Net Pension Liability as percentage of Covered-employee Payroll	TBD

Notes to Schedule of Changes in Net Pension Liability & Related Ratios

The Total Pension Liability as of June 30, 2017 is based on an actuarial valuation as of June 30, 2017.

<u>Changes of Assumptions</u>. In 2016/17, inflation was reduced to 2.75%, salary scale was reduced to 3.25%, mortality improvement was changed to use Society of Actuaries Scale MP-2016.

<u>Differences between actual and expected experience</u>. The largest component for 2016/17 was there were more deaths than expected.

⁵ GASBS 67 and 68 require this information be reported in the Required Supplementary Information for 10 years or as many years are available upon implementation. Only the current year is shown in this report.





SECTION 3

GASBS 67 AND 68 REQUIRED SUPPLEMENTARY INFORMATION

Employer Actuarially Determined Contribution⁶ (Amounts in \$000's)

(1111001115 111 0000 3)						
Fiscal Year	(1) Actuarially Determined Contribution (ADC)	(2) Employer Contributions in relation to the Actuarially Determined Contribution	(3) Contribution Deficiency (Excess) (1)-(2)	(4) Covered- Employee Payroll	(5) ADC / Covered- Employee Payroll (1)/(4)	
2016/17	\$ 8,330	\$ 8,645	\$ (315)	TBD	TBD	

Significant Methods and Assumptions Used in Calculation of ADC for 2016/17

Actuarial Assumption	FY 2016/2017
 Actuarial valuation date 	■ June 30, 2015
 Actuarial cost method 	Entry Age Normal, level percent of payroll
 Amortization method 	Level percent of payroll
 Amortization period 	■ 14 years open
Asset method	Actuarial value of assets
	 Gains/losses recognized over 3 years
	 Corridor of 85% - 115% of market value of assets
Inflation	■ 3.00%
Salary Scale	■ 3.5%
 Mortality Rate Table 	■ CalPERS' 1997-2007 Experience Study
	 Mortality projected fully generational with Scale MP-2014 modified to converge to ultimate rates in 2022.
 All Other 	Same as used in determining total pension liability for 2016/17

⁶ GASBS 67 and 68 require this information be reported in the Required Supplementary Information for 10 years or as many years are available upon implementation. Only the current year is shown in this report.





SECTION 4 GASBS 68 ADDITIONAL NOTE DISCLOSURES

(Amounts in 000's)							
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability/ (Asset) (a) – (b)				
■ Balances at FYE 6/30/2016	\$366,141	\$285,170	\$80,971				
Changes for the year:							
Service cost	96		96				
• Interest	22,759		22,759				
• Change of assumptions	(16,246)		(16,246)				
• Change of benefit terms	0		0				
• Differences between expected and actual experience	(3,701)		(3,701)				
• Contributions—employer		8,645	(8,645)				
• Contributions—member		64	(64)				
• Net investment income		26,801	(26,801)				
• Benefit payments, including refunds of member contributions	(32,171)	(32,171)	0				
• Administrative expense ⁷	0	0	0				
Net changes	(29,263)	3,339	(32,602)				
■ Balances at FYE 6/30/2017	336,878	288,509	48,369				

Changes in Net Pension Liability/(Asset)

Pension Expense for Fiscal Year			
(Amounts in 000's)			
2016/17			

Pension Expense

\$ (13,307)

⁷ No administrative expenses are paid from the trust. As required by City Charter, the City pays all administrative expenses of the plan.





SECTION 4 GASBS 68 ADDITIONAL NOTE DISCLOSURES

Balance of Deferred Outflows of Resources and Inflows of Resources as of June 30, 2017

(Amounts in 000's)

	Deferred Outflows of Resources	Deferred Inflows of Resources
 Differences between expected and actual experience 	\$ 0	\$ 0
Changes of assumptions and other inputs	0	0
Net difference between actual and projected earnings on investments	1,837	0
 Employer contributions made subsequent to the Measurement Date 	0	_0
■ Total	1,837	0

<u>Recognition of Deferred Outflows of Resources and Inflows of</u> Resources in Future Pension Expense

(Amounts in 000's)						
Net Deferred Outflows/(Inflows) of Resources						
\$ 1,622						
1,622						
397						
(1,804)						
0						
0						





Recognition of Deferred Outflows and Inflows of Resources

Differences between Actual and Expected Experience Changes in Assumptions and Other Inputs

The average expected remaining service lifetime (AERSL) for the plan is calculated as 27.5 years of total expected future service divided by 1,085 plan participants, resulting in 0.025 years. Since the AERSL is less than 1.0, a recognition period of 1.0 year is used. Therefore all deferred outflows and inflows of resources for differences between actual and expected experience, and for changes in assumptions and other inputs, are fully recognized immediately. No recognition schedules are maintained for these amounts.





<u>Recognition of Deferred Outflows and Inflows of Resources (cont.)</u> (Amounts in 000's)

Measurement Period	2014/15	2015/16	2016/17	Total
Initial amount*	\$6,135	\$11,007	\$(9,028)	
Initial recognition period Amount recognized in pension expense for current and prior fiscal years:	5	5	5	
• 2014/15	1,227	0	0	1,227
• 2015/16	1,227	2,201	0	3,428
• 2016/17	1,227	2,201	(1,806)	1,622
Amount recognized in pension expense for future fiscal years:				
• 2017/18	1,227	2,201	(1,806)	1,622
• 2018/19	1,227	2,201	(1,806)	1,622
• 2019/20	0	2,203	(1,806)	397
• 2020/21	0	0	(1,804)	(1,804)
• 2021/22+	0	0	0	0
Deferred Outflows as of FYE 6/30/17	2,454	6,605	0	1,837
Deferred Inflows as of FYE 6/30/17	0	0	(7,222)	N/A

* For 2016/17 Projected earnings = \$17,773, actual earnings = \$26,801. Difference = (\$9,028)





Components of GASBS 68 Pension Expense for Fiscal Year

(Amounts in 000's)

	FY 2016/17
Service cost	\$ 96
Interest on the total pension liability including service cost	22,759
Projected earnings on plan investments	(17,773)
Member contributions	(64)
Administrative expense	0
Recognition of deferred outflows and inflows of resources:	
• Difference between expected and actual experience	(3,701)
• Changes in assumptions and other inputs	(16,246)
• Difference between actual and projected earnings on investments	1,622
Total Pension Expense	(13,307)

Calculation of Interest on the Total Pension Liability (Amounts in 000's)

	Dollar Amount	Expected Return	Portion of Year	Interest
 Beginning Total Pension Liability 	\$366,141	6.5%	1.0	\$23,799
 Service Cost 	96	6.5%	1.0	6
Benefit Payments	(32,171)	6.5%	0.5	(1,046)
Changes in Assumptions	(16,246)	6.5%	0.0	0
 Differences Between Expected and Actual Experience 	(3,701)	6.5%	0.0	<u> 0</u>
 Interest on Total Pension Liability 				22,759



Calculation of Projected Earnings on Pension Plan Investments (Amounts in 000's)

	Dollar Amount	Expected Return	Portion of Year	Projected Earnings
 Beginning Fiduciary Net Position 	\$285,170	6.5%	1.0	\$18,536
 Employer Contributions 	8,645	6.5%	0.5	281
 Member Contributions 	64	6.5%	0.5	2
Benefit Payments	(32,171)	6.5%	0.5	(1,046)
 Administrative Expenses 	0	6.5%	0.5	0
 Projected Earnings on investments 				17,773

GASBS 68 Balance Equation

(Amounts in 000's)

	6/30/16	6/30/17	Change
 Total Pension Liability 	\$366,141	\$336,878	\$(29,263)
 Fiduciary Net Position 	285,170	288,509	<u>3,339</u>
■ Net Pension Liability/(Asset)	80,971	48,369	(32,602)
 Deferred inflows of resources 	0	0	0
 Deferred outflows of resources 	(12,487)	(1,837)	10,650
 Employer contributions 	N/A	8,645	8,645
 Net impact on balance sheet 	68,484	55,177	(13,307)
Check:			
Pension expense for year			\$(13,307)





Discount Rate "Crossover" Test

Projection of Contributions – amounts in \$000's

¥7	D 11	Employer Contributions for Current	EmployeeContributionsContributionsfrom Payrollfor Currentof FutureEmployeesEmployees		Total
Year	Payroll	Employees	Employees	Employees	Contributions
1	\$1,049	\$8,267	\$66	\$0	\$8,333
2	717	5,268	45	0	5,313
3	485	4,851	30	0	4,881
4 5	297	4,497	19	0	4,516
5 6	185	4,192 3,810	12	0	4,204
6 7	124	· · · · · · · · · · · · · · · · · · ·	8 4	0	3,818
8	67	3,668		0	3,672
8 9	40	3,325	2	0	3,328
	19	3,142	1	0	3,144
10	8	2,970	1	0	2,970
11	2	2,806	0	0	2,806
12	1	2,652	0	0	2,652
13	0	2,505	0	0	2,505
14	0	2,366	0	0	2,366
15	0	2,235	0	0	2,235
16	0	2,111	0	0	2,111
17	0	1,993	0	0	1,993
18	0	1,882	0	0	1,882
19 20	0	1,777	0	0	1,777
20 *	0 *	1,677 *	0 *	0 *	1,677 *
56		_	0		
50 57	0 0	1	0	0 0	1
58	0	1 0	0	0	$1 \\ 0$
58 59	0	0	0	0	
59 60	0	0	0	0	0
60 61	0	0	0	0	$\begin{array}{c} 0\\ 0\end{array}$
62		0			0
02 *	0 *	0 *	0 *	0 *	0 *
73	0	0	0	0	0
		0			0
74 75	0 0	0	0 0	0 0	0
73 76	0	0	0	0	0
70	0	0	0	0	0
78	0	0	0	0	0
78 79	0 0	0	0	0	0
79 80	0 0	0	0	0	0
80 81	0 0	0	0	0	0
81 82	0	0	0	0	0
02	U	U	U	U	U

Note: Years 21 to 55, and 63 to 72 omitted.



Discount Rate "Crossover" Test Projection of Fiduciary Net Position – amounts in \$000's

Year	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
1 1 1	\$288,509	\$8,333	\$31,967	\$0	\$17,985	\$282,860
2	282,860	5,313	31,688	50 0	17,529	274,014
3	274,014	4,881	31,293	0	16,953	264,556
4	264,556	4,516	30,788	0	16,342	254,626
5	254,626	4,204	30,191	0	15,706	244,345
6	244,345	3,818	29,544	0	15,046	233,665
7	233,665	3,672	28,830	0	14,371	222,878
8	222,878	3,328	28,069	0	13,683	211,820
9	211,820	3,144	27,265	0	12,984	200,682
10	200,682	2,970	26,427	0	12,282	189,508
11	189,508	2,806	25,555	0	11,579	178,339
12	178,339	2,652	24,658	0	10,877	167,210
12	167,210	2,505	23,735	0	10,179	156,159
13	156,159	2,366	22,788	0	9,487	145,224
15	145,224	2,235	21,818	0	8,803	134,444
16	134,444	2,255	20,825	0	8,131	123,861
17	123,861	1,993	19,810	0	7,472	113,516
18	113,516	1,882	18,774	0	6,830	103,453
19	103,453	1,777	17,719	0	6,206	93,716
20	93,716	1,677	16,647	0	5,605	84,351
*	*	*	*	*	*	*
56	932	1	172	0	55	816
57	816	1	157	0	48	707
58	707	0	143	0	41	605
59	605	0	129	0	35	511
60	511	0	115	0	29	425
61	425	0	102	0	24	347
62	347	0	89	0	20	278
*	*	*	*	*	*	*
73	6	0	2	0	0	4
74	4	0	1	0	0	3
75	3	0	0	0	0	3
76	3	0	0	0	0	3 3 3
77	3	0	0	0	0	3
78	3	0	0	0	0	3
79	3	0	0	0	0	3
80	3	0	0	0	0	3
81	3	0	0	0	0	3 3
82	3	0	0	0	0	3

Note: Years 21 to 55, and 63 to 72 omitted.



Discount Rate "Crossover" Test

<u>Discount Rate "Crossover" Test</u> Present Values of Projected Benefit Payments – amounts in \$000's									
Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	''Funded'' Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	PV of ''Funded'' Benefit Payments	PV of ''Unfunded'' Benefit Payments	PV of Benefit Payments using 6.5% Discount Rate		
1	\$288,509	\$31,967	\$31,967	<u>\$0</u>	\$30,016	\$0	\$30,016		
2	282,860	31,688	31,688	0	27,938	0	27,938		
3	274,014	31,293	31,293	0	25,906	0	25,906		
4	264,556	30,788	30,788	0	23,932	0	23,932		
5	254,626	30,191	30,191	0	22,036	0	22,036		
6	244,345	29,544	29,544	0	20,247	0	20,247		
7	233,665	28,830	28,830	0	18,552	0	18,552		
8	222,878	28,069	28,069	0	16,960	0	16,960		
9	211,820	27,265	27,265	0	15,469	0	15,469		
10	200,682	27,203	27,203	0	13,409	0	14,078		
10									
	189,508	25,555	25,555	0	12,783	0	12,783		
12	178,339	24,658	24,658	0	11,581	0	11,581		
13	167,210	23,735	23,735	0	10,468	0	10,468		
14	156,159	22,788	22,788	0	9,437	0	9,437		
15	145,224	21,818	21,818	0	8,484	0	8,484		
16	134,444	20,825	20,825	0	7,603	0	7,603		
17	123,861	19,810	19,810	0	6,791	0	6,791		
18	113,516	18,774	18,774	0	6,043	0	6,043		
19	103,453	17,719	17,719	0	5,356	0	5,356		
20	93,716	16,647	16,647	0	4,724	0	4,724		
*	*	*	*	*	*	*	*		
56	932	172	172	0	5	0	5		
57	816	157	157	0	4	0	4		
58	707	143	143	0	4	0	4		
59	605	129	129	0	3	0	3		
60	511	115	115	0	3	0	3		
61	425	102	102	0	2	0	2		
62	347	89	89	0	2	0	2		
*	*	*	*	*	*	*	*		
73	6	2	2	0	0	0	0		
74	4	1	1	0	0	0	0		
75	3	0	0	0	0	0	0		
76	3	0	0	0	0	0	0		
77	3	0	0	0	0	0	0		
78	3	0	0	0	0	0	0		
79	3	ů 0	0	ů 0	ů 0	0	Ō		
80	3	0 0	Ő	Õ	ů 0	Õ	Õ		
81	3	0	0	0	0	Õ	Õ		
82	3	0	0	0	0	Õ	0		
Total	2	v	0	v	325,325	0	325,325		

Note: Years 21 to 55, and 63 to 72 omitted.

