

# Sacramento County Employees' Retirement System

Actuarial Valuation and Review as of  
June 30, 2015



This report has been prepared at the request of the Board of Retirement to assist in administering the Fund. This valuation report may not otherwise be copied or reproduced in any form without the consent of the Board of Retirement and may only be provided to other parties in its entirety. The measurements shown in the actuarial valuation may not be applicable for other purposes.

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*November 3, 2015*

*Board of Retirement  
Sacramento County Employees' Retirement System  
980 9<sup>th</sup> Street, Suite 1900  
Sacramento, CA 95814*

*Dear Board Members:*

*We are pleased to submit this Actuarial Valuation and Review as of June 30, 2015. It summarizes the actuarial data used in the valuation, establishes the funding requirements for fiscal 2016-2017 and analyzes the preceding year's experience.*

*This report was prepared in accordance with generally accepted actuarial principles and practices at the request of the Board to assist in administering the Retirement System. The census information and financial information on which our calculations were based was prepared by the Retirement System. That assistance is gratefully acknowledged. The actuarial calculations were completed under the supervision of Andy Yeung, ASA, MAAA, Enrolled Actuary.*

*The measurements shown in this actuarial valuation may not be applicable for other purposes. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and changes in plan provisions or applicable law.*

*We are members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of our knowledge, the information supplied in the actuarial valuation is complete and accurate. Further, in our opinion, the assumptions as approved by the Board are reasonably related to the experience of and the expectations for the Retirement System.*

*We look forward to reviewing this report at your next meeting and to answering any questions.*

*Sincerely,*

*Segal Consulting, a Member of The Segal Group, Inc.*

By:

*Paul Angelo, FSA, EA, MAAA, FCA  
Senior Vice President and Actuary*

*Andy Yeung, ASA, EA, MAAA, FCA  
Vice President and Actuary*

JAC/hy

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## SECTION 1: Valuation Summary for the Sacramento County Employees' Retirement System

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### Purpose

This report has been prepared by Segal Consulting to present a valuation of the Sacramento County Employees' Retirement System as of June 30, 2015. The valuation was performed to determine whether the asset and contribution levels will be sufficient to provide the prescribed benefits. The contribution requirements presented in this report are based on:

- The benefit provisions of the Retirement System, as administered by the Board of Retirement;
- The characteristics of covered active members, inactive vested members, and retired members and beneficiaries as of June 30, 2015, provided by the Retirement System;
- The assets of the plan as of June 30, 2015, provided by the Retirement System;
- Economic assumptions regarding future salary increases and investment earnings; and
- Other actuarial assumptions, regarding employee terminations, retirement, death, etc.

One of the general goals of an actuarial valuation is to establish contributions which fully fund the System's liabilities, and which, as a percentage of payroll, remain as level as possible for each generation of active members. Annual actuarial valuations measure the progress toward this goal, as well as test the adequacy of the contribution rates.

In preparing this valuation, we have employed generally accepted actuarial methods and assumptions to evaluate the System's assets, liabilities and future contribution requirements. Our calculations are based upon member data and financial information provided to us by the System's staff. This information has not been audited by us, but it has been reviewed and found to be consistent, both internally and with prior year's information.

The contribution requirements are determined as a percentage of payroll. The System's employer rates provide for both normal cost and a contribution to amortize any unfunded or overfunded actuarial accrued liabilities. In this valuation, we have applied the funding policy adopted by the Board on June 19, 2013 to continue (1) to amortize the unfunded actuarial accrued liability (UAAL) established as a result of the 2010 Early Retirement Incentive Program for the Sacramento County Law Enforcement Managers Association (LEMA) members over a 10-year period beginning June 30, 2010 and (2) to amortize the System's remaining outstanding balance of the June 30, 2012 UAAL over a declining 23-year period (20 years as of June 30, 2015). Effective with the June 30, 2013 valuation, the Board of Retirement's funding policy is to amortize any change in UAAL that arises due to actuarial gains or losses or from changes in actuarial assumptions or methods at each valuation over its own declining 20-year period. Any change in UAAL that arises due to plan amendments will be amortized over its own declining 15-year period and any change in UAAL due to retirement incentive programs will be amortized over its own declining period

## SECTION 1: Valuation Summary for the Sacramento County Employees' Retirement System

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of up to 5 years. The rates calculated in this report may be adopted by the Board for the fiscal year that extends from July 1, 2016 through June 30, 2017.

### Significant Issues in Valuation Year

- Reference:* Pg. 24 > The ratio of the actuarial value of assets to actuarial accrued liabilities increased from 85.2% to 86.8%. On a market value of assets basis, the funded ratio decreased from 91.0% to 87.3%. The System's unfunded actuarial accrued liability decreased from \$1,268 million as of June 30, 2014 to \$1,190 million as of June 30, 2015. The change in the UAAL is mainly due to investment returns (after "smoothing") higher than the 7.50% investment return assumption used in the June 30, 2014 valuation and lower than expected salary increases during 2014/2015. A reconciliation of the System's unfunded actuarial accrued liability is provided in Section 3, Exhibit H.
- Reference:* Pg. 51
- Reference:* Pg. 16 > Starting with the June 30, 2015 valuation, we have added to the Miscellaneous employer UAAL rate for the County an amount to reflect the net withdrawal liability for the Library Authority and Air Quality Districts when they terminated their affiliation with the County and became special districts.
- Reference:* Pg. 21 > The aggregate employer rate decreased from 24.15% of payroll to 22.54% of payroll. The reasons for this change in contribution rate are higher than expected returns on investments (after "smoothing"), lower than expected salary increases during 2014/2015, Rep Unit 19 Safety members paying full rate starting in 2014/2015, Rep Unit 26 Miscellaneous members agreeing to pick up an additional portion of the Normal Cost starting in 2015/2016, most County members in the legacy tiers continuing to pick up an additional portion of the Normal Cost in 2016/2017, and other experience gains offset to some degree by an increase in UAAL rate due to lower than expected increase in payroll. A reconciliation of the System's aggregate employer rate is provided in Section 2, Subsection D, Chart 14.
- Reference:* Pg. 22 > The aggregate member rate calculated in this valuation has increased from 7.93% of payroll to 8.84% of payroll. The increase in member rate is due to Rep Unit 19 Safety members paying full rate starting in 2014/2015, Rep Unit 26 Miscellaneous members agreeing to pick up an additional portion of the Normal Cost starting in 2015/2016 and most County members in the legacy tiers continuing to pick up an additional portion of the Normal Cost in 2016/2017 offset to some degree by changes in demographics. A reconciliation of the System's aggregate member rate is provided in Section 2, Subsection D, Chart 15.
- Reference:* Pg. 6 > As indicated in Section 2, Subsection B, Chart 7 of this report, the total net unrecognized investment gain as of June 30, 2015 is \$40.0 million (as compared to a net unrecognized investment gain of \$497.0 million as of June 30, 2014). This investment gain will be recognized in the determination of the actuarial value of assets for funding purposes over the next six years. That means if the System earns the assumed rate of investment return of 7.50% per year on a market value basis, there will be investment gains on the actuarial value of assets in the next few years. Therefore, if the actual market

## SECTION 1: Valuation Summary for the Sacramento County Employees' Retirement System

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return is equal to the assumed rate of 7.50% and all the other actuarial assumptions are met, the employer contribution requirements would decrease in the next few years.

- The unrecognized investment gains represent about 0.5% of the market value of assets. Unless offset by future investment losses or other unfavorable experience, the recognition of the \$40.0 million in past market gains is expected to have an impact on the System's future funded ratio and the aggregate employer contributions. This potential impact may be illustrated as follows:
  - If the deferred gains were recognized immediately in the actuarial value of assets, the funded percentage would increase from 86.8% to 87.3%.
  - If the deferred gains were recognized immediately in the actuarial value of assets, the aggregate employer contribution rate would decrease from 22.5% of payroll to 22.2% of payroll.
- The actuarial valuation report as of June 30, 2015 is based on financial information as of that date. Changes in the value of assets subsequent to that date are not reflected. Declines in asset values will increase the actuarial cost of the plan, while increases will decrease the actuarial cost of the plan.
- The actuarial valuation report as of June 30, 2015 only reflects the sharing of the total Normal Cost rate between the employer and most County members in the legacy tiers through 2016/2017. Any additional Normal Cost that most County members in the legacy tiers have agreed to pick up beyond 2016/2017 will be reflected in future actuarial valuations.

### Impact of Future Experience on Contribution Rates

Future contribution requirements may differ from those determined in the valuation because of:

- difference between actual experience and anticipated experience;
- changes in actuarial assumptions or methods;
- changes in statutory provisions; and
- difference between the contribution rates determined by the valuation and those adopted by the Board.

**SECTION 1: Valuation Summary for the Sacramento County Employees' Retirement System**

**Summary of Key Valuation Results**

	June 30, 2015		June 30, 2014	
<b>Employer Contribution Rates (Dollar amounts in thousands):</b>				
	Total Rate	Estimated Annual Amount <sup>(1)</sup>	Total Rate	Estimated Annual Amount <sup>(1)</sup>
Miscellaneous Tier 1	16.77%	\$1,374	17.96%	\$1,472
Miscellaneous Tier 2	15.31%	716	16.75%	783
Miscellaneous Tier 3	18.04%	106,389	19.73%	116,398
Miscellaneous Tier 4	15.25%	3,113	15.96%	3,258
Miscellaneous Tier 5	14.47%	9,990	15.19%	10,492
Safety Tier 1	42.11%	13,597	42.59%	13,752
Safety Tier 2	39.42%	57,533	41.56%	60,657
Safety Tier 3	37.73%	3,286	39.92%	3,476
Safety Tier 4	34.40%	6,280	35.13%	6,414
All Categories Combined	22.54%	\$202,278	24.15%	\$216,702
<b>Aggregate Member Contribution Rates (Dollar amounts in thousands):</b>				
	Total Rate	Estimated Annual Amount <sup>(1)</sup>	Total Rate	Estimated Annual Amount <sup>(1)</sup>
All Categories Combined	8.84%	\$79,325	7.93%	\$71,159
<b>Individual Member Contribution Rates:</b>				
(Before additional pick-up of total Normal Cost)	Total Rate <sup>(2)</sup>	Per Member Annual Amount <sup>(3)</sup>	Total Rate <sup>(2)</sup>	Per Member Annual Amount <sup>(3)</sup>
Miscellaneous Tier 1	4.75%	\$3,673	4.75%	\$3,679
Miscellaneous Tier 2	3.54%	2,385	3.54%	2,385
Miscellaneous Tier 3	4.76%	3,341	4.78%	3,357
Miscellaneous Tier 4	7.19%	4,698	7.20%	4,703
Miscellaneous Tier 5	8.02%	4,022	8.12%	4,072
Safety Tier 1	15.39%	19,346	15.25%	19,173
Safety Tier 2	12.37%	13,009	12.29%	12,923
Safety Tier 3	12.06%	10,656	12.10%	10,698
Safety Tier 4	13.11%	9,276	13.11%	9,276

<sup>(1)</sup> Based on June 30, 2015 projected annual compensation.

<sup>(2)</sup> Based on single full-rates payable by members who enter on or after January 1, 1975. Note that effective with the June 30, 2015 valuation, all members are reported as paying at least full-rate.

<sup>(3)</sup> Based on average projected annual compensation for members in each respective tier.

**SECTION 1: Valuation Summary for the Sacramento County Employees' Retirement System**

**Summary of Key Valuation Results – continued**

	June 30, 2015	June 30, 2014
<b>Funded Status (Dollar Amounts in thousands):</b>		
Actuarial accrued liability <sup>(1)</sup>	\$9,028,679	\$8,580,928
Actuarial value of assets (AVA) <sup>(1)</sup>	7,838,825	7,312,993
Market value of assets (MVA)	7,878,814	7,810,001
Funded percentage on an AVA basis	86.8%	85.2%
Funded percentage on a MVA basis	87.3%	91.0%
Unfunded actuarial accrued liability on an AVA basis	\$1,189,854	\$1,267,935
Unfunded actuarial accrued liability on a MVA basis	1,149,865	770,927
<b>Key Assumptions:</b>		
Interest rate	7.50%	7.50%
Inflation rate	3.25%	3.25%
Across-the-board real salary increase	0.25%	0.25%

<sup>(1)</sup> Includes non-valuation reserves and designations.



**SECTION 1: Valuation Summary for the Sacramento County Employees' Retirement System**

**Summary of Key Valuation Demographic and Financial Data**

	June 30, 2015	June 30, 2014	Percentage Change
<b>Active Members:</b>			
Number of members	12,072	12,049	0.2%
Average age	46.7	46.9	N/A
Average service	12.7	12.8	N/A
Projected total compensation	\$897,340,379	\$879,998,011	2.0%
Average projected compensation	\$74,332	\$73,035	1.8%
<b>Retired Member and Beneficiaries:</b>			
Number of members:			
Service retired	8,333	7,913	5.3%
Disability retired	729	725	0.6%
Beneficiaries	1,479	1,411	4.8%
Total	10,541	10,049	4.9%
Average age	69.2	69.1	N/A
Average monthly benefit	\$3,072	\$2,950	4.1%
<b>Vested Terminated Members:</b>			
Number of terminated vested members <sup>(1)</sup>	3,261	3,201	1.9%
Average age	47.4	47.3	N/A
<b>Summary of Financial Data (dollar amounts in thousands):</b>			
Market value of assets	\$7,878,814	\$7,810,001	0.9%
Return on market value of assets	1.94%	16.13%	N/A
Actuarial value of assets	\$7,838,825	\$7,312,993	7.2%
Return on actuarial value of assets	8.28%	8.70%	N/A
Valuation value of assets	\$7,767,116	\$7,277,721	6.7%
Return on valuation value of assets	7.82%	8.06%	N/A

<sup>(1)</sup> Includes terminated members due a refund of member contributions.

## SECTION 1: Valuation Summary for the Sacramento County Employees' Retirement System

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### Important Information about Actuarial Valuations

In order to prepare an actuarial valuation, Segal Consulting (“Segal”) relies on a number of input items. These include:

- **Plan of benefits** Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. It is important to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan description in this report to confirm that Segal has correctly interpreted the plan of benefits.
- **Participant data** An actuarial valuation for a plan is based on data provided to the actuary by SCERS. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data.
- **Assets** This valuation is based on the market value of assets as of the valuation date, as provided by SCERS.
- **Actuarial assumptions** In preparing an actuarial valuation, Segal projects the benefits to be paid to existing plan participants for the rest of their lives and the lives of their beneficiaries. This projection requires actuarial assumptions as to the probability of death, disability, withdrawal, and retirement of each participant for each year. In addition, the benefits projected to be paid for each of those events in each future year reflect actuarial assumptions as to salary increases and cost-of-living adjustments. The projected benefits are then discounted to a present value, based on the assumed rate of return that is expected to be achieved on the plan’s assets. There is a reasonable range for each assumption used in the projection and the results may vary materially based on which assumptions are selected. It is important for any user of an actuarial valuation to understand this concept. Actuarial assumptions are periodically reviewed to ensure that future valuations reflect emerging plan experience. While future changes in actuarial assumptions may have a significant impact on the reported results, that does not mean that the previous assumptions were unreasonable.

The user of Segal’s actuarial valuation (or other actuarial calculations) should keep the following in mind:

- The valuation is prepared at the request of the Board to assist the sponsors of the Fund in preparing items related to the pension plan in their financial reports. Segal is not responsible for the use or misuse of its report, particularly by any other party.
- An actuarial valuation is a measurement of the plan’s assets and liabilities at a specific date. Accordingly, except where otherwise noted, Segal did not perform an analysis of the potential range of future financial measures. The actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.

## SECTION 1: Valuation Summary for the Sacramento County Employees' Retirement System

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- If SCERS is aware of any event or trend that was not considered in this valuation that may materially change the results of the valuation, Segal should be advised, so that we can evaluate it.
- Segal does not provide investment, legal, accounting, or tax advice. Segal's valuation is based on our understanding of applicable guidance in these areas and of the plan's provisions, but they may be subject to alternative interpretations. The Board should look to their other advisors for expertise in these areas.

As Segal Consulting has no discretionary authority with respect to the management or assets of SCERS, it is not a fiduciary in its capacity as actuaries and consultants with respect to SCERS.

**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

**A. MEMBER DATA**

The Actuarial Valuation and Review considers the number and demographic characteristics of covered members, including active members, vested terminated members, retired members and beneficiaries.

This section presents a summary of significant statistical data on these member groups.

More detailed information for this valuation year and the preceding valuation can be found in Section 3, Exhibits A, B, and C.

*A historical perspective of how the member population has changed over the past ten valuations can be seen in this chart.*

**CHART 1**  
**Member Population: 2006 – 2015**

<b>Year Ended June 30</b>	<b>Active Members</b>	<b>Vested Terminated Members<sup>(1)</sup></b>	<b>Retired Members and Beneficiaries</b>	<b>Ratio of Non-Actives to Actives</b>
2006	14,412	2,192	7,108	0.65
2007	14,716	2,437	7,464	0.67
2008	15,180	2,661	7,709	0.68
2009	14,796	2,818	7,968	0.73
2010	13,340	2,740	8,346	0.83
2011	12,434	2,710	8,821	0.93
2012	12,155	2,851	9,239	0.99
2013	12,026	3,249	9,634	1.07
2014	12,049	3,201	10,049	1.10
2015	12,072	3,261	10,541	1.14

<sup>(1)</sup> Includes terminated members due a refund of member contributions

**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

**Active Members**

Plan costs are affected by the age, years of service and compensation of active members. In this year's valuation, there were 12,072 active members with an average age of 46.7, average years of service of 12.7 years and average compensation of \$74,332. The 12,049 active members in the prior valuation had an average age of 46.9, average service of 12.8 years and average compensation of \$73,035.

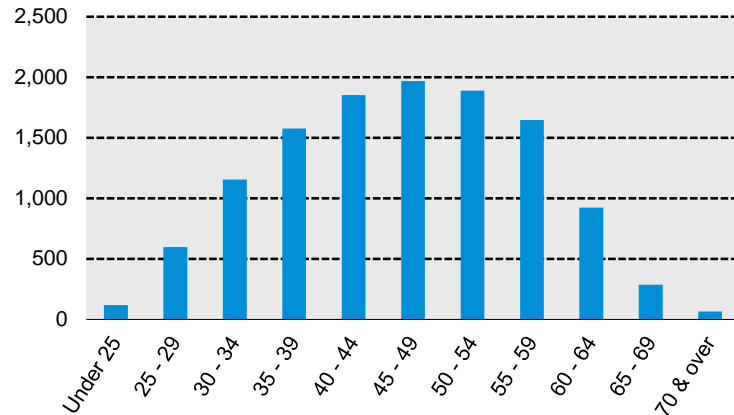
**Inactive Members**

In this year's valuation, there were 3,261 members with a vested right to a deferred or immediate vested benefit or entitled to a return of their member contributions versus 3,201 in the prior valuation.

*These graphs show a distribution of active members by age and by years of service.*

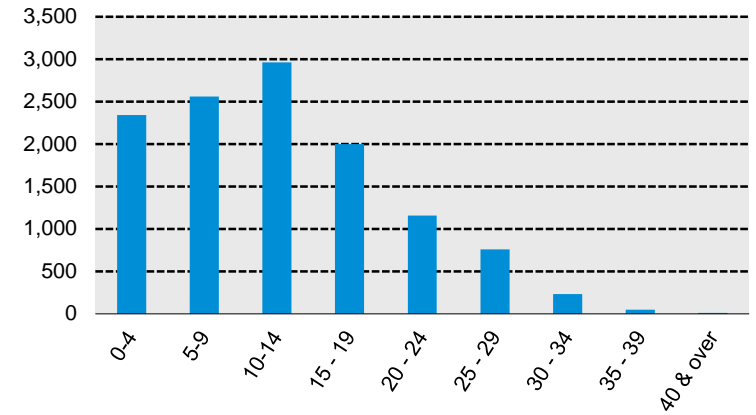
**CHART 2**

**Distribution of Active Members by Age as of June 30, 2015**



**CHART 3**

**Distribution of Active Members by Years of Service as of June 30, 2015**



**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

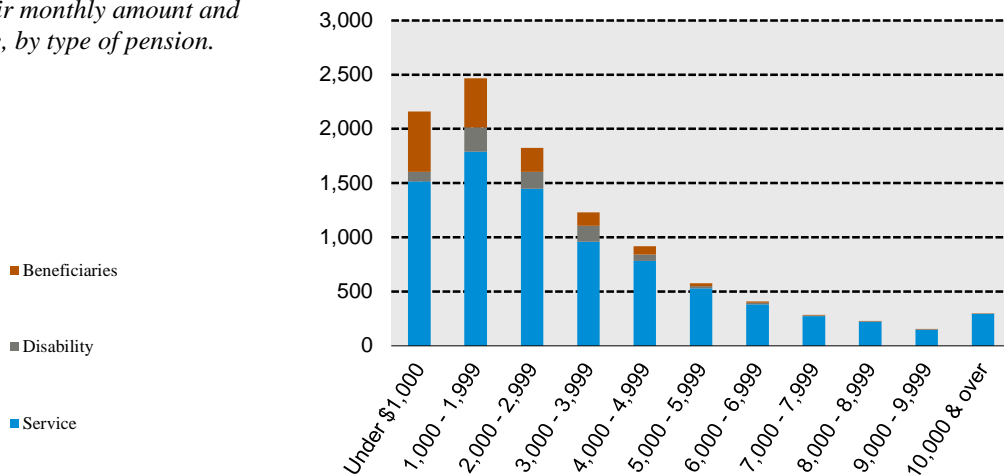
**Retired Members and Beneficiaries**

As of June 30, 2015, 9,062 retired members and 1,479 beneficiaries were receiving total monthly benefits of \$32,379,365. For comparison, in the previous valuation, there were 8,638 retired members and 1,411 beneficiaries receiving monthly benefits of \$29,647,061.

*These graphs show a distribution of the current retired members and beneficiaries based on their monthly amount and age, by type of pension.*

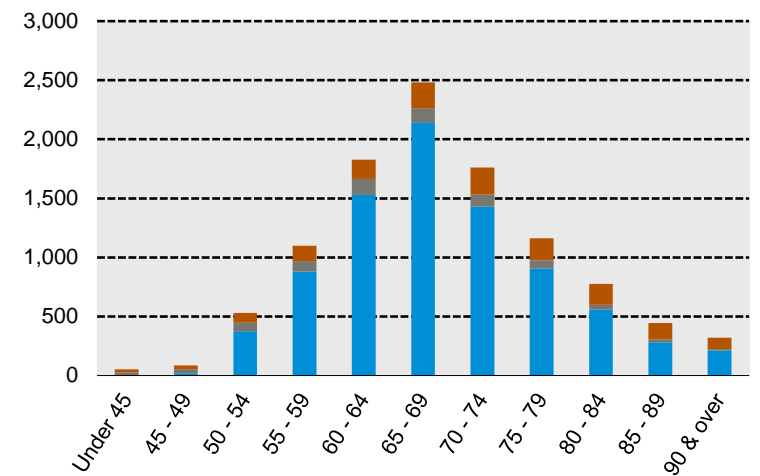
**CHART 4**

**Distribution of Retired Members and Beneficiaries by Type and by Monthly Amount as of June 30, 2015**



**CHART 5**

**Distribution of Retired Members and Beneficiaries by Type and by Age as of June 30, 2015**



**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

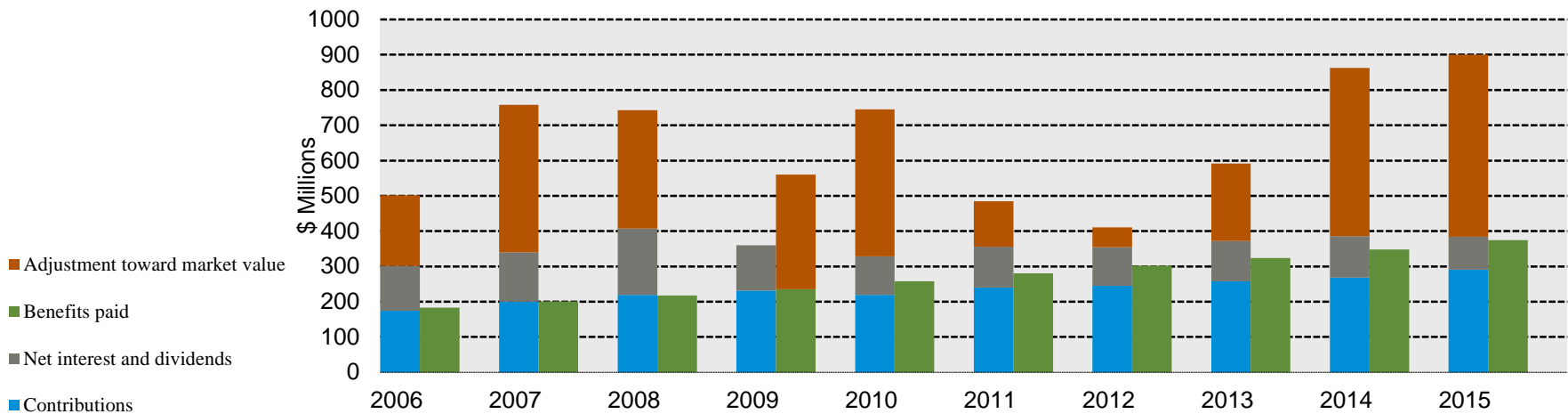
**B. FINANCIAL INFORMATION**

Retirement plan funding anticipates that, over the long term, both contributions and net investment earnings (less investment fees and administrative expenses) will be needed to cover benefit payments.

Retirement plan assets change as a result of the net impact of these income and expense components. The adjustment toward market value shown in the chart is the “non-cash” earnings on investments implicitly included in the actuarial value of assets. Additional financial information, including a summary of these transactions for the valuation year, is presented in Section 3, Exhibits D and E.

*The chart depicts the components of changes in the actuarial value of assets over the last ten years. Note: The first bar represents increases in assets during each year while the second bar details the decreases.*

**CHART 6**  
**Comparison of Increases and Decreases in the Actuarial Value of Assets for Years Ended June 30, 2006 - 2015**



## SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System

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It is generally considered desirable to have level and predictable plan costs from one year to the next. For this reason, the Board of Retirement has approved an asset valuation method that gradually adjusts to market value. Under this valuation method, the full value of market fluctuations is not recognized in a single year and, as a result, the asset value and the plan costs are more stable.

The amount of the adjustment to recognize market value is treated as income, which may be positive or negative. Realized and unrealized gains and losses are treated equally and, therefore, the sale of assets does not have an impact on the actuarial value of assets.

The determination of the Actuarial and Valuation Value of Assets is provided on the following page.

In developing the actuarial value of assets as of June 30, 2015, we have used the investment gains/losses from the prior seven years. The investment loss for the year ending June 30, 2015 was calculated by comparing the actual market return against an expected market return of 7.50% per annum used in the June 30, 2014 valuation. As adopted by the Board, any investment gains/losses established after July 1, 2008 will be recognized over a seven-year period and the deferred return will be further adjusted, if necessary, so that the actuarial value of assets will stay within 30% of the market value of assets. Deferred gains and losses as of June 30, 2013 have been combined and will be recognized in equal amounts over a period of six years starting July 1, 2013.



**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

**CHART 7 - Determination of Actuarial and Valuation Value of Assets for Year Ended June 30, 2015**

From	To	Contributions	Benefits	Market Value	Average Market Value
7/2008	6/2009	\$231,634,350	\$235,677,778	\$4,407,858,000	\$5,807,291,027
7/2009	6/2010	219,555,464	258,023,786	4,980,962,000	4,462,064,342
7/2010	6/2011	240,071,877	280,594,039	6,140,644,000	5,040,052,530
7/2011	6/2012	244,788,721	301,803,914	6,073,926,000	6,187,197,677
7/2012	6/2013	257,906,339	323,566,930	6,787,995,000	6,124,682,749
7/2013	6/2014	268,138,220	347,619,527	7,810,001,000	6,828,714,719
7/2014	6/2015	291,101,995	374,657,240	7,878,814,000	7,856,443,766

From	To	Total Actual Market Return (net)	Expected Market Return (net)	Investment Gain (Loss)	Deferred Factor	Deferred Return
7/2008	6/2009	(\$1,324,427,572)	\$457,324,168	(\$1,781,751,740)		
7/2009	6/2010	611,572,322	351,387,567	260,184,755		
7/2010	6/2011	1,200,204,162	390,604,071	809,600,091		
7/2011	6/2012	(9,702,807)	479,507,820	(489,210,627)		
7/2012	6/2013	779,729,591	459,351,206	320,378,385	0.667	(\$6,507,779)
7/2013	6/2014	1,101,487,307	512,153,604	589,333,703	0.714	420,952,645
7/2014	6/2015	152,368,245	589,233,282	(436,865,037)	0.857	(374,455,746)

1.	Total Deferred Return <sup>(2)</sup>					\$39,989,120
2.	Net Market Value					7,878,814,000
3.	Actuarial Value of Assets (Item 2 – Item 1)					7,838,824,880
4.	Actuarial Value as a Percentage of Market Value (Before Corridor: Item 3 / Item 2)					99.49%
5.	Actuarial Value of Assets – Corridor Limits:					
a.	Lower Limit – 70% of Net Market Value					5,515,169,800
b.	Upper Limit – 130% of Net Market Value					10,242,458,200
6.	Actuarial Value of Assets (within corridor)					7,838,824,880
7.	Non-valuation reserves and designations:					
a.	Contingency Reserve					81,139,092
b.	Other Non-Valuation Reserves					0
c.	Subtotal					\$81,139,092
8.	Preliminary Valuation Value of Assets (Item 6 – Item 7c)					7,757,685,788
9.	Adjustment to Preliminary Valuation Value of Assets					
a.	Balance of transfer to offset member COLA rate					21,383,000
b.	Surplus/(deficit) for withdrawn employer (preliminary) <sup>(3)</sup>					(30,813,439)
c.	Subtotal					(\$9,430,439)
10.	Final Valuation Value of Assets (Item 8 – Item 9c)					\$7,767,116,227

<sup>(1)</sup> Based on action taken by the Board, the net deferred loss of \$9,761,669 through June 30, 2013 as of that valuation has been recognized in six level amounts with four periods of recognition remaining after the June 30, 2015 valuation.

<sup>(2)</sup> The amounts of deferred return that will be recognized in each subsequent valuation are as follows:

6/30/2016	\$20,154,293	6/30/2019	\$20,154,294
6/30/2017	\$20,154,293	6/30/2020	\$21,781,238
6/30/2018	\$20,154,293	6/30/2021	(\$62,409,291)

<sup>(3)</sup> Based on the latest estimate available as of June 30, 2014 for Florin Fire adjusted with interest at the assumed rate of investment return to June 30, 2015.

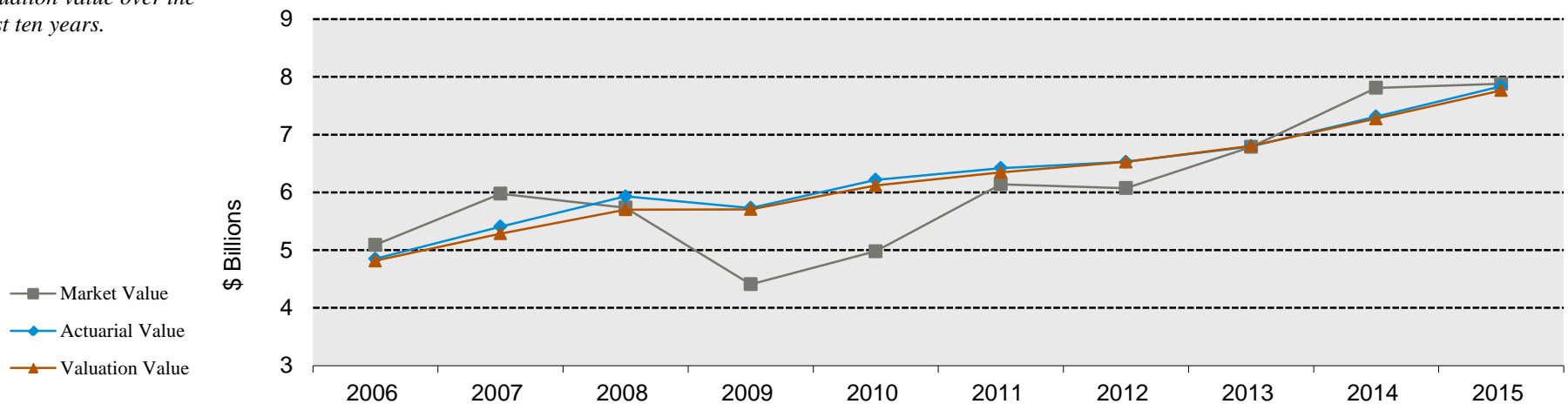
The chart shows the determination of the actuarial and the valuation value of assets as of the valuation date.

**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

The market value, actuarial value, and valuation value of assets are representations of SCERS' financial status. As investment gains and losses are gradually taken into account, the actuarial value of assets tracks the market value of assets, but with less volatility. The valuation value of assets is the actuarial value, excluding any non-valuation reserves. The valuation asset value is significant because SCERS' liabilities are compared to these assets to determine what portion, if any, remains unfunded. Amortization of the unfunded actuarial accrued liability is an important element in determining the contribution requirement.

*This chart shows the change in market value, actuarial value and valuation value over the past ten years.*

**CHART 8**  
**Market Value, Actuarial Value and Valuation Value of Assets as of June 30, 2006 – 2015**



**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

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**C. ACTUARIAL EXPERIENCE**

To calculate the required contribution, assumptions are made about future events that affect the amount and timing of benefits to be paid and assets to be accumulated. Each year actual experience is measured against the assumptions. If overall experience is more favorable than anticipated (an actuarial gain), the contribution requirement will decrease from the previous year. On the other hand, the contribution requirement will increase if overall actuarial experience is less favorable than expected (an actuarial loss).

Taking account of experience gains or losses in one year without making a change in assumptions reflects the belief that the single year's experience was a short-term

development and that, over the long term, experience will return to the original assumptions. For contribution requirements to remain stable, assumptions should approximate experience.

If assumptions are changed, the contribution requirement is adjusted to take into account a change in experience anticipated for all future years.

The net experience gain was \$82.2 million, \$23.6 million gain from investments and \$58.6 million gain from all other sources. The net experience variation from individual sources other than investments was 0.6% of the actuarial accrued liability. An explanation of the experience variation is provided on page 12 and in Section 3, Exhibit H. A discussion of the major components of the actuarial experience is on the following pages.

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**CHART 9**

**Actuarial Experience for Year Ended June 30, 2015**

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1. Net gain from investments <sup>(1)</sup>	\$23,638,000
2. Net gain from other experience <sup>(2)</sup>	<u>58,599,000</u>
3. Net experience gain: (1) + (2)	<u>\$82,237,000</u>

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<sup>(1)</sup> Details in Chart 10.

<sup>(2)</sup> Details in Section 3, Exhibit H. Does not include the effect of plan or assumption changes, if any.

*This chart provides a summary of the actuarial experience during the past year.*

**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

**Investment Rate of Return**

A major component of projected asset growth is the assumed rate of return. The assumed return should represent the expected long-term rate of return, based on SCERS' investment policy. For valuation purposes, the assumed rate of return on the valuation value of assets was 7.50% in the June 30, 2014 valuation. The actual rate of return on a valuation basis for the 2014/2015 plan year was 7.82%.

Since the actual return on the valuation value of assets for the year was greater than the assumed return, SCERS experienced an actuarial gain during the year ended June 30, 2015 with regard to its investments.

*This chart shows the gain/(loss) due to investment experience.*

**CHART 10**  
**Investment Experience for Year Ended June 30, 2015 – Market, Actuarial and Valuation Value of Assets**

	<b>Market Value</b>	<b>Actuarial Value</b>	<b>Valuation Value</b>
1. Actual return	\$152,368,000	\$609,387,000	\$572,950,000
2. Average value of assets	7,856,444,000	7,359,436,000	7,324,164,000
3. Actual rate of return: (1) ÷ (2)	1.94%	8.28%	7.82%
4. Assumed rate of return	7.50%	7.50%	7.50%
5. Expected return:	<u>589,233,000</u>	<u>551,958,000</u>	<u>549,312,000</u>
6. Actuarial gain/(loss): (1) – (5)	<u>(\$436,865,000)</u>	<u>\$57,429,000</u>	<u>\$23,638,000</u>

**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

Because actuarial planning is long term, it is useful to see how the assumed investment rate of return has followed actual experience over time. The chart below shows the rate of return on an actuarial, valuation, and market basis for the last ten years.

**CHART 11**

**Investment Return – Market Value, Actuarial Value and Valuation Value: 2006 – 2015**

Year Ended June 30	Market Value Investment Return		Actuarial Value Investment Return		Valuation Value Investment Return	
	Amount	Percent	Amount	Percent	Amount	Percent
2006	\$522,803,000	11.30%	\$326,688,000	7.13%	\$329,339,000	7.24%
2007	885,687,000	17.19%	558,262,000	11.37%	470,717,000	9.65%
2008	(240,661,000)	(3.98%)	523,169,000	9.56%	413,272,000	7.72%
2009	(1,324,428,000)	(22.81%)	(196,500,000)	(3.27%)	9,241,000	0.16%
2010	611,573,000	13.71%	525,248,000	9.08%	450,949,000	7.83%
2011	1,200,204,000	23.81%	244,352,000	3.89%	269,937,000	4.37%
2012	(9,702,000)	(0.16%)	166,087,000	2.57%	238,467,000	3.73%
2013	779,729,000	12.73%	333,523,000	5.07%	341,373,000	5.19%
2014	1,101,488,000	16.13%	594,718,000	8.70%	551,884,000	8.06%
2015	152,368,000	1.94%	609,387,000	8.28%	572,950,000	7.82%
Five-Year Average Return		10.53%		5.67%		5.82%
Ten-Year Average Return		6.13%		6.16%		6.14%

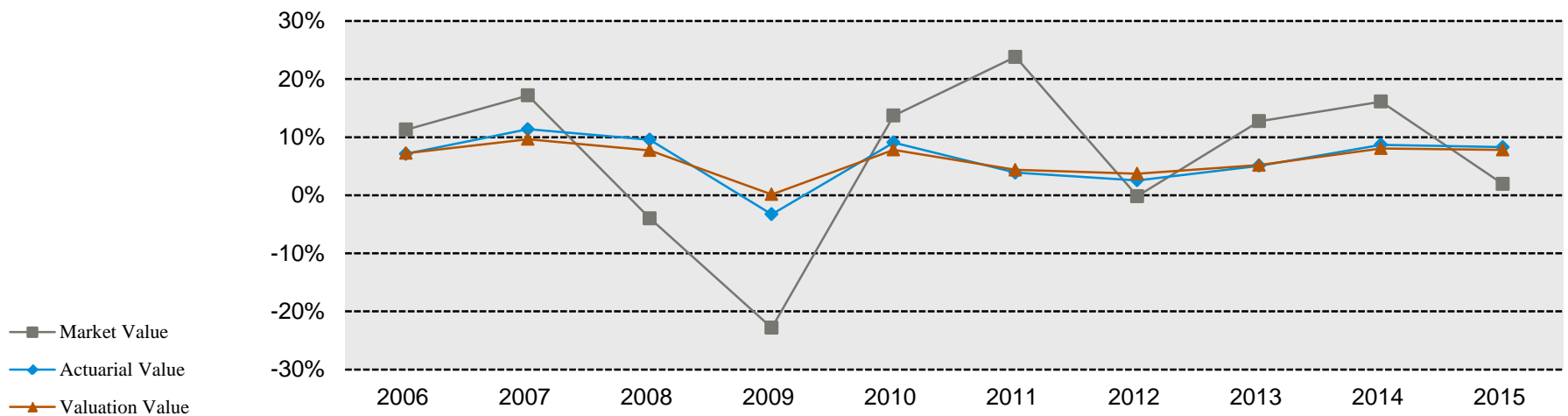
## SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System

Subsection B described the actuarial asset valuation method that gradually takes into account fluctuations in the market value rate of return. The effect of this is to stabilize the actuarial rate of return, which contributes to leveling pension plan costs.

*This chart illustrates how this leveling effect has actually worked over the years 2006 - 2015.*

**CHART 12**

**Market, Actuarial and Valuation Rates of Return for Years Ended June 30, 2006 – 2015**



## SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System

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### Other Experience

There are other differences between the expected and the actual experience that appear when the new valuation is compared with the projections from the previous valuation.

These include:

- actual turnover among the participants,
- retirement experience (earlier or later than expected),
- mortality (more or fewer deaths than expected),
- the number of disability retirements, and
- salary increases different than assumed.

The net gain from this other experience for the year ended June 30, 2015 amounted to \$58.6 million which is 0.6% of the actuarial accrued liability. See Section 3, Exhibit H for a detailed development of the Unfunded Actuarial Accrued Liability, and the breakdown of the actuarial gain/loss from other experience.

## SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System

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### D. EMPLOYER AND MEMBER CONTRIBUTIONS

Employer contributions consist of two components:

#### *Normal Cost*

The annual contribution rate that, if paid annually from a member's first year of membership through the year of retirement, would accumulate to the amount necessary to fully fund the member's retirement-related benefits. Accumulation includes annual crediting of interest at the assumed investment earning rate. The contribution rate is expressed as a level percentage of the member's compensation.

#### *Contribution to the Unfunded*

#### *Actuarial Accrued Liability (UAAL)*

The annual contribution rate that, if paid annually over the UAAL amortization period, would accumulate to the amount necessary to fully fund the UAAL. Accumulation includes annual crediting of interest at the assumed investment earning rate. The contribution (or rate credit in the case of a negative unfunded actuarial accrued liability) is calculated to remain as a level percentage of future active member payroll (including payroll for new members as they enter the System) assuming a constant number of active members. In order to remain as a level percentage of payroll, amortization payments (credits) are scheduled to increase at the annual inflation rate of 3.50% (i.e., 3.25% inflation plus 0.25% real across-the-board salary increase). The UAAL established as a result of the Early Retirement Incentive Program for LEMA members is amortized over a 10-year period beginning June 30, 2010. Effective with the June 30, 2013 valuation, the System's remaining outstanding balance of the June 30, 2012 UAAL is being amortized over a declining 23-year period (20 years as of June 30, 2015). The change in UAAL that arises due to actuarial gains or losses or from changes in actuarial assumptions or methods at each valuation is amortized over its own declining 20-year period. Any change in UAAL that arises due to plan amendments will be amortized over its own declining 15-year period and any change in UAAL due to retirement incentive programs will be amortized over its own declining period of up to 5 years.

Starting with the June 30, 2015 valuation, we have added to the Miscellaneous employer UAAL rate for the County an amount to reflect the net withdrawal liability for the Library Authority and Air Quality Districts when they terminated their affiliation with the County and became special districts.

The recommended employer contributions are provided on Chart 13.

Employer normal cost and UAAL contribution rates are calculated assuming payments made at the end of every pay period.



## SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System

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### Member Contributions

*Miscellaneous Tiers 1, 2, 3 & 4*

*Safety Tiers 1, 2, & 3*

Articles 6 and 6.8 of the 1937 Act define the methodology to be used in the calculation of member basic contribution rates for Miscellaneous members and Safety members, respectively, in the legacy tiers. The basic contribution rate is determined as that percentage of compensation which if paid annually from a member's first year of membership through the prescribed retirement age would accumulate to the amount necessary to fund a prescribed annuity.

The annuity is equal to:

- 1/240 of Final Average Salary per year of service at age 55 for current Miscellaneous Tier 1, Tier 2 and Tier 3 members
- 1/120 of Final Average Salary per year of service at age 60 for current Miscellaneous Tier 4 members
- 1/100 of Final Average Salary per year of service at age 50 for current Safety Tier 1, Tier 2 and Tier 3 members

In addition to their basic contributions, members in the legacy tiers pay one-half of the total normal cost necessary to fund their cost-of-living benefits. The cost to provide the cost-of-living benefits is offset somewhat by the balance available in an account maintained in the valuation to offset member's COLA rates in the legacy tiers. Accumulation includes semi-annual crediting of interest at the assumed investment earning rate. For members paying half rates, their rates should be exactly one-half of the rates described above. Note that effective with the June 30, 2015 valuation, all members are reported as paying at least full-rate.

After we completed the June 30, 2013 valuation, we were informed by SCERS that starting in 2014/2015, most County members in the legacy tiers have agreed to pick up either 1/3, 1/4, or 1/5 of the difference between the employee's then current Normal Cost and 50% of the total normal cost rate. The adjustments required for the employer and employee rates were subsequently provided to the System.

As those members have agreed to pick up an additional 1/3, 1/4, or 1/5 of the difference in the Normal Cost rate in 2015/2016 and 2016/2017, we have reflected these

## SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System

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adjustments in preparing the recommended rates for the June 30, 2014 and June 30, 2015 valuations, respectively.

For Rep Unit 26 Miscellaneous members, the member rates they have started to pay in 2015/2016 are 1% of payroll higher than the rates they paid in 2014/2015. In developing their rates for 2016/2017, we have added an additional 2% of payroll to the rates for 2015/2016.

### *Miscellaneous Tier 5 & Safety Tier 4*

Pursuant to Section 7522.30(a) of the Government Code, Miscellaneous Tier 5 and Safety Tier 4 members are required to contribute at least 50% of the Normal Cost rate. In addition, there are certain additional requirements that would have to be met such as requiring the new employees to pay the contribution rate of “similarly situated employees”, if it is greater. (reference: Section 7522.30(c)). We further understand that different rules may have to be applied for collectively bargained employees, non-represented, managerial or other supervisory employees. (reference: Section 7522.30(e)). In preparing the Normal Cost rates in this report, we have assumed that exactly 50% of the Normal Cost would be paid by the new members and we have taken into account in this valuation only the requirements of Section 7522.30(c), but not requirements of Section 7522.30(e).

The member contribution rates are provided in Appendix A.

Member contributions are assumed to be made at the end of every pay period.

**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

**CHART 13**

**Recommended Employer Contribution Rates (Dollar Amounts in Thousands)**

<b>County Only<sup>(1)</sup></b>	<b>June 30, 2015</b>		<b>June 30, 2014</b>	
	<b>Actuarial Valuation</b>		<b>Actuarial Valuation</b>	
	<b>Rate</b>	<b>Estimated Annual Amount<sup>(2)</sup></b>	<b>Rate</b>	<b>Estimated Annual Amount<sup>(2)</sup></b>
<b>Miscellaneous – Tier 1 Members</b>				
Normal Cost	10.15%	\$731	10.83%	\$780
UAAL <sup>(3)</sup>	6.11%	440	6.75%	486
Total Contribution	16.26%	\$1,171	17.58%	\$1,266
<b>Miscellaneous – Tier 2 Members</b>				
Normal Cost	8.90%	\$338	9.80%	\$372
UAAL <sup>(3)</sup>	6.11%	232	6.75%	257
Total Contribution	15.01%	\$570	16.55%	\$629
<b>Miscellaneous – Tier 3 Members</b>				
Normal Cost	11.30%	\$59,123	12.49%	\$65,349
UAAL <sup>(3)</sup>	6.11%	31,994	6.75%	35,317
Total Contribution	17.41%	\$91,117	19.24%	\$100,666
<b>Miscellaneous – Tier 4 Members</b>				
Normal Cost	9.14%	\$1,865	9.21%	\$1,880
UAAL <sup>(3)</sup>	6.11%	1,248	6.75%	1,378
Total Contribution	15.25%	\$3,113	15.96%	\$3,258
<b>Miscellaneous – Tier 5 Members</b>				
Normal Cost	8.02%	\$5,124	8.12%	\$5,188
UAAL <sup>(3)</sup>	6.11%	3,907	6.75%	4,313
Total Contribution	14.13%	\$9,031	14.87%	\$9,501

<sup>(1)</sup> Includes elected officials (Board of Supervisors, Sheriff, District Attorney and Assessor).

<sup>(2)</sup> Based on June 30, 2015 projected annual payroll, see page 20.

<sup>(3)</sup> Includes a 0.04% UAAL rate for the County effective June 30, 2015 for withdrawn employers.

**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

**CHART 13 (continued)**

**Recommended Employer Contribution Rates (Dollar Amounts in Thousands)**

County Only <sup>(1)</sup>	June 30, 2015 Actuarial Valuation		June 30, 2014 Actuarial Valuation	
	Rate	Estimated Annual Amount <sup>(2)</sup>	Rate	Estimated Annual Amount <sup>(2)</sup>
<b>Safety – Tier 1 Members</b>				
Normal Cost	20.82%	\$6,723	21.30%	\$6,878
UAAL	21.29%	6,874	21.29%	6,874
Total Contribution	42.11%	\$13,597	42.59%	\$13,752
<b>Safety – Tier 2 Members</b>				
Normal Cost	18.13%	\$26,460	20.27%	\$29,584
UAAL	21.29%	31,073	21.29%	31,073
Total Contribution	39.42%	\$57,533	41.56%	\$60,657
<b>Safety – Tier 3 Members</b>				
Normal Cost	16.44%	\$1,432	18.63%	\$1,622
UAAL	21.29%	1,854	21.29%	1,854
Total Contribution	37.73%	\$3,286	39.92%	\$3,476
<b>Safety – Tier 4 Members</b>				
Normal Cost	13.11%	\$2,393	13.84%	\$2,527
UAAL	21.29%	3,887	21.29%	3,887
Total Contribution	34.40%	\$6,280	35.13%	\$6,414
<b>All County Categories Combined</b>				
Normal Cost	12.64%	\$104,189	13.86%	\$114,180
UAAL	9.90%	81,509	10.37%	85,439
Total Contribution	22.54%	\$185,698	24.23%	\$199,619

<sup>(1)</sup> Includes elected officials (Board of Supervisors, Sheriff, District Attorney and Assessor).

<sup>(2)</sup> Based on June 30, 2015 projected annual payroll, see page 20.

**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

**CHART 13 (continued)**

**Recommended Employer Contribution Rates (Dollar Amounts in Thousands)**

	June 30, 2015 Actuarial Valuation		June 30, 2014 Actuarial Valuation	
	Rate	Estimated Annual Amount <sup>(1)</sup>	Rate	Estimated Annual Amount <sup>(1)</sup>
<b>Superior Court Only</b>				
<b>Miscellaneous – Tier 1 Members</b>				
Normal Cost	11.92%	\$84	11.80%	\$83
UAAL	6.07%	43	6.75%	47
Total Contribution	17.99%	\$127	18.55%	\$130
<b>Miscellaneous – Tier 2 Members</b>				
Normal Cost	10.59%	\$93	10.79%	\$95
UAAL	6.07%	53	6.75%	59
Total Contribution	16.66%	\$146	17.54%	\$154
<b>Miscellaneous – Tier 3 Members</b>				
Normal Cost	13.76%	\$5,584	13.90%	\$5,641
UAAL	6.07%	2,465	6.75%	2,739
Total Contribution	19.83%	\$8,049	20.65%	\$8,380
<b>Miscellaneous – Tier 5 Members</b>				
Normal Cost	8.02%	\$177	8.12%	\$180
UAAL	6.07%	134	6.75%	149
Total Contribution	14.09%	\$311	14.87%	\$329
<b>All Superior Court Categories Combined</b>				
Normal Cost	13.38%	\$5,938	13.71%	\$5,999
UAAL	6.07%	2,695	6.75%	2,994
Total Contribution	19.45%	\$8,633	20.46%	\$8,993

<sup>(1)</sup> Based on June 30, 2015 projected annual payroll, see page 20.

Note: Superior Court members have not agreed to pick up any additional portion of the total Normal Cost.

**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

**CHART 13 (continued)**

**Recommended Employer Contribution Rates (Dollar Amounts in Thousands)**

District Only	June 30, 2015 Actuarial Valuation		June 30, 2014 Actuarial Valuation	
	Rate	Estimated Annual Amount <sup>(1)</sup>	Rate	Estimated Annual Amount <sup>(1)</sup>
<b>Miscellaneous – Tier 1 Members</b>				
Normal Cost	11.92%	\$35	11.80%	\$34
UAAL	14.00%	41	14.36%	42
Total Contribution	25.92%	\$76	26.16%	\$76
<b>Miscellaneous – Tier 3 Members</b>				
Normal Cost	13.76%	\$3,580	13.90%	\$3,616
UAAL	14.00%	3,643	14.36%	3,736
Total Contribution	27.76%	\$7,223	28.26%	\$7,352
<b>Miscellaneous – Tier 5 Members</b>				
Normal Cost	8.02%	\$236	8.12%	\$239
UAAL	14.00%	412	14.36%	423
Total Contribution	22.02%	\$648	22.48%	\$662
<b>All District Categories Combined</b>				
Normal Cost	13.17%	\$3,851	13.30%	\$3,889
UAAL	14.00%	4,096	14.36%	4,201
Total Contribution	27.17%	\$7,947	27.66%	\$8,090
<b>All County and District Categories Combined</b>				
Normal Cost	12.70%	\$113,978	13.83%	\$124,068
UAAL	9.84%	88,300	10.32%	92,634
Total Contribution	22.54%	\$202,278	24.15%	\$216,702

<sup>(1)</sup> Based on June 30, 2015 projected annual payroll, see page 20.

Note: District members have not agreed to pick up any additional portion of the total Normal Cost.

**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

**CHART 13 (continued)**

**Recommended Employer Contribution Rates (Dollar Amounts in Thousands)**

June 30, 2015 projected annual payroll used in developing employer contribution rates on the four previous pages

	<u>County<sup>(1)</sup></u>	<u>Superior Court</u>	<u>District</u>	<u>Total</u>
Miscellaneous Tier 1	\$7,202	\$702	\$290	\$8,194
Miscellaneous Tier 2	3,800	876	0	4,676
Miscellaneous Tier 3	523,210	40,584	26,014	589,808
Miscellaneous Tier 4	20,410	0	0	20,410
Miscellaneous Tier 5	<u>63,894</u>	<u>2,211</u>	<u>2,945</u>	<u>69,050</u>
Subtotal	\$618,516	\$44,373	\$29,249	\$692,138
Safety Tier 1	\$32,288	\$0	\$0	\$32,288
Safety Tier 2	145,950	0	0	145,950
Safety Tier 3	8,709	0	0	8,709
Safety Tier 4	<u>18,256</u>	<u>0</u>	<u>0</u>	<u>18,256</u>
Subtotal	\$205,203	\$0	\$0	\$205,203
Total	\$823,719	\$44,373	\$29,249	\$897,341

<sup>(1)</sup> Includes elected officials (Board of Supervisors, Sheriff, District Attorney and Assessor).

## SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System

The contribution rates as of June 30, 2015 are based on all of the data described in the previous sections, the actuarial assumptions described in Section 4, and the Plan provisions adopted at the time of preparation of the Actuarial Valuation. They include all changes affecting

future costs, adopted benefit changes, actuarial gains and losses and changes in the actuarial assumptions.

### Reconciliation of Recommended Contribution Rate

The chart below details the changes in the recommended contribution from the prior valuation to the current year's valuation.

*The chart reconciles the contribution rate from the prior valuation to the amount determined in this valuation.*

#### CHART 14

#### Reconciliation of Average Recommended Employer Contribution Rate from June 30, 2014 to June 30, 2015 (Dollar Amounts in Thousands)

	Contribution Rate	Estimated Annual Dollar Cost <sup>(1)</sup>
<b>Average Recommended Contribution Rate as of June 30, 2014, After Reflecting Members Paying Half and Full Rates and Member Pick Up of Additional Normal Cost</b>	24.15%	\$216,702
Effect of investment gains	-0.19%	(1,705)
Effect of actual contributions greater than expected	-0.12%	(1,077)
Effect of actual individual salary increases less than expected	-0.32%	(2,871)
Effect of increase in UAAL rate from lower than expected increase in total payroll	0.15%	1,346
Effect of actual COLA increases less than expected	-0.07%	(628)
Effect of Rep Unit 19 Safety members paying full rate starting in 2014/2015 and Rep Unit 26 Miscellaneous members paying additional Normal Cost starting in 2015/2016	-0.28%	(2,513)
Effect of member pick up of additional Normal Cost in 2016/2017	-0.64%	(5,743)
Effect of demographic changes and other actuarial (gains)/losses	<u>-0.14%</u>	<u>(1,233)</u>
<b>Subtotal</b>	-1.61%	(14,424)
<b>Average Recommended Contribution Rate as of June 30, 2015, After Reflecting Member Pick Up of Additional Normal Cost<sup>(2)</sup></b>	22.54%	\$202,278

<sup>(1)</sup> Based on June 30, 2015 projected annual payroll of \$897,341,000.

<sup>(2)</sup> Effective with the June 30, 2015 valuation, all members are reported as paying at least full-rate.



## SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System

The member contribution rates as of June 30, 2015 are based on all of the data described in the previous sections, the actuarial assumptions described in Section 4, and the Plan provisions adopted at the time of preparation of the Actuarial Valuation. They include all changes affecting future costs, adopted benefit changes, actuarial gains and losses and changes in the actuarial assumptions.

### Reconciliation of Recommended Contribution Rate

The chart below details the changes in the recommended member contribution rate from the prior valuation to the current year's valuation.

*The chart reconciles the member contribution rate from the prior valuation to the amount determined in this valuation.*

**CHART 15**  
**Reconciliation of Average Recommended Member Contribution Rate from June 30, 2014 to June 30, 2015 (Dollar Amounts in Thousands)**

	Contribution Rate	Estimated Amount <sup>(1)</sup>
<b>Average Recommended Contribution Rate as of June 30, 2014, After Reflecting Members Paying Half and Full Rates and Member Pick Up of Additional Normal Cost</b>	7.93% <sup>(2)</sup>	\$71,159
Effect of reduction in COLA offset reserve	0.03%	269
Effect of Rep Unit 19 Safety members paying full rate starting in 2014/2015 and Rep Unit 26 Miscellaneous members paying additional Normal Cost starting in 2015/2016	0.28%	2,513
Effect of member pick up of additional Normal Cost in 2016/2017	0.66%	5,922
Effect of demographic changes	<u>-0.06%</u>	<u>(538)</u>
Subtotal	0.91%	8,166
<b>Average Recommended Contribution Rate as of June 30, 2015, After Reflecting Member Pick Up of Additional Normal Cost<sup>(3)</sup></b>	8.84% <sup>(2)</sup>	\$79,325

<sup>(1)</sup> Based on June 30, 2015 projected annual payroll of \$897,341,000.

<sup>(2)</sup> Rates have been adjusted to reflect a reserve available to reduce part of the COLA contributions.

<sup>(3)</sup> Effective with the June 30, 2015 valuation, all members are reported as paying at least full-rate.

## SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System

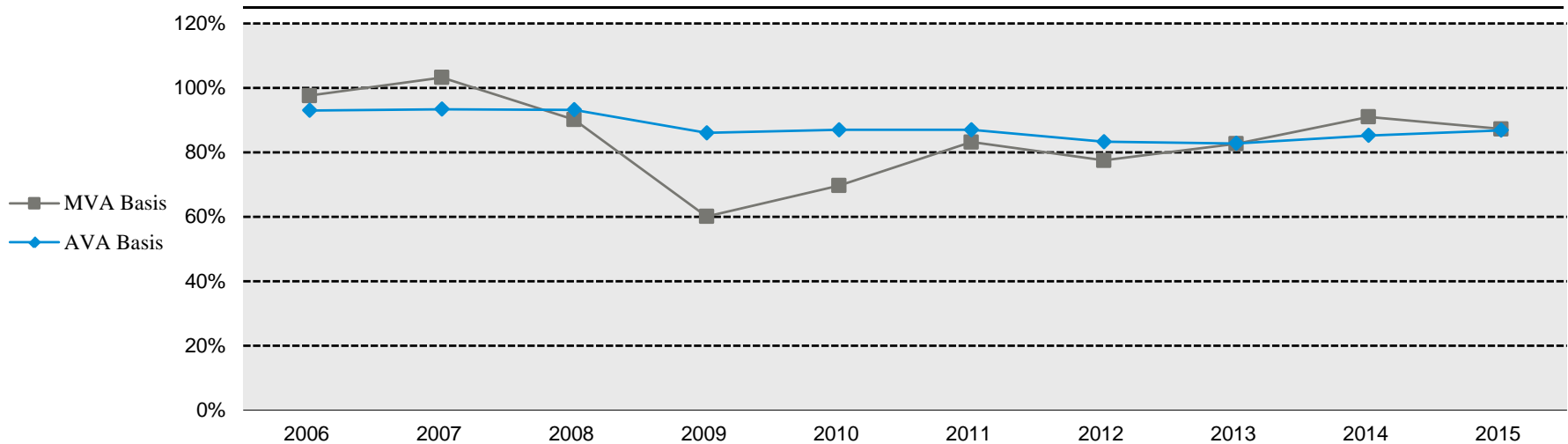
### E. FUNDED RATIO

A critical piece of information regarding the Plan's financial status is the funded ratio. This ratio compares the actuarial value of assets and market value of assets to the actuarial accrued liabilities of the plan. High ratios indicate a well-funded plan that is well positioned to pay benefits when they are due. Lower ratios may indicate recent changes to benefit structures, funding of the plan below actuarial requirements, poor asset performance, or a variety of other changes.

The funded status measures shown in this valuation are appropriate for assessing the need for or amount of future contributions. However, they are not necessarily appropriate for assessing the sufficiency of Plan assets to cover the estimated cost of settling the Plan's benefit obligations. As the chart below shows, the measures are different depending on whether the valuation or market value of assets is used.

The Chart below depicts a history of the funded ratio for the Plan.

**CHART 16**  
**Funded Ratio for Plan Years Ending June 30, 2006 – 2015**



**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

**CHART 17**

**Schedule of Funding Progress**

<b>Actuarial Valuation Date</b>	<b>Actuarial Value of Assets<sup>(1)</sup> (a)</b>	<b>Actuarial Accrued Liability (AAL)<sup>(1)</sup> (b)</b>	<b>Unfunded/ (Overfunded) AAL (UAAL) (b) - (a)</b>	<b>Funded Ratio (%) (a) / (b)</b>	<b>Covered Payroll (c)</b>	<b>UAAL as a Percentage of Covered Payroll (%) [(b) - (a)] / (c)</b>
6/30/2006	\$4,848,953,000	\$5,214,915,000	\$365,962,000	93.0	\$782,572,000	46.8
6/30/2007	5,406,461,000	5,788,336,000	381,875,000	93.4	832,484,000	45.9
6/30/2008	5,930,758,000	6,363,355,000	432,597,000	93.2	902,971,000	47.9
6/30/2009	5,730,215,000	6,661,993,000	931,778,000	86.0	968,130,000	96.2
6/30/2010	6,216,994,000	7,090,497,000	873,503,000	87.7	912,644,000	95.7
6/30/2011	6,420,824,000	7,382,897,000	962,073,000	87.0	880,766,000	109.2
6/30/2012	6,529,895,000	7,838,223,000	1,308,328,000	83.3	875,672,000	149.4
6/30/2013	6,797,757,000	8,210,980,000	1,413,223,000	82.8	877,657,000	161.0
6/30/2014	7,312,993,000	8,580,928,000	1,267,935,000	85.2	879,999,000	144.1
6/30/2015	7,838,825,000	9,028,679,000	1,189,854,000	86.8	897,341,000	132.6

<sup>(1)</sup> Includes contingency reserve and retiree health benefit reserve.

**SECTION 2: Valuation Results for the Sacramento County Employees' Retirement System**

**F. VOLATILITY RATIOS**

Retirement plans are subject to volatility in the level of required contributions. This volatility tends to increase as retirement plans become more mature.

The Asset Volatility Ratio (AVR), which is equal to the market value of assets divided by total payroll, provides an indication of the potential contribution volatility for any given level of investment volatility. A higher AVR indicates that the plan is subject to a greater level of contribution volatility. This is a current measure since it is based on the current level of assets.

For SCERS, the current AVR is 8.8. This means that a 1% asset gain/(loss) (relative to the assumed investment return) translates to 8.8% of one-year's payroll. Since SCERS amortizes actuarial gains and losses over a period of 20 years as of June 30, 2015, there would be a 0.6% of payroll decrease/(increase) in the required contribution for each 1% asset gain/(loss).

The Liability Volatility Ratio (LVR), which is equal to the Actuarial Accrued Liability divided by payroll, provides an indication of the longer-term potential for contribution volatility for any given level of investment volatility. This is because, over an extended period of time, the plan's assets should track the plan's liabilities. For example, if a plan is 50% funded on a market value basis, the liability volatility ratio would be double the asset volatility ratio and the plan sponsor should expect contribution volatility to increase over time as the plan becomes better funded.

The LVR also indicates how volatile contributions will be in response to changes in the Actuarial Accrued Liability due to actual experience or to changes in actuarial assumptions.

For SCERS, the current LVR is 10.1. This is about 15% higher than the AVR. Therefore, we would expect that contribution volatility will increase over the long-term.

**CHART 19**

**Volatility Ratios for Years Ended June 30, 2008 – 2015**

Year Ended June 30	<u>Asset Volatility Ratios</u>			<u>Liability Volatility Ratios</u>		
	Miscellaneous	Safety	Total	Miscellaneous	Safety	Total
2008	5.3	10.0	6.4	5.9	11.3	7.0
2009	3.8	7.4	4.6	5.7	11.3	6.9
2010	4.5	9.1	5.5	6.4	13.4	7.8
2011	5.8	11.6	7.0	6.9	14.0	8.4
2012	5.8	11.0	6.9	7.5	14.5	9.0
2013	6.6	11.7	7.7	7.9	14.6	9.4
2014	7.6	13.2	8.9	8.1	15.2	9.8
2015	7.5	13.0	8.8	8.4	15.8	10.1

*This chart shows how the asset and liability volatility ratios have varied over time.*

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT A**

**Table of Plan Coverage**

**i. Miscellaneous Tier 1**

<b>Category</b>	<b>Year Ended June 30</b>		<b>Change From Prior Year</b>
	<b>2015</b>	<b>2014</b>	
<b>Active members in valuation</b>			
Number	104	149	-30.2%
Average age	59.8	59.4	N/A
Average service	33.9	33.3	N/A
Projected total compensation <sup>(1)</sup>	\$8,193,946	\$11,576,136	-29.2%
Projected average compensation	\$78,788	\$77,692	1.4%
Account balances	\$16,664,391	\$23,246,783	-28.3%
Total active vested members	104	149	-30.2%
<b>Vested terminated members</b>			
Number <sup>(2)</sup>	63	74	-14.9%
Average age	63.1	62.1	N/A
<b>Retired members</b>			
Number in pay status	2,988	3,053	-2.1%
Average age	74.3	73.9	N/A
Average monthly benefit	\$3,339	\$3,194	4.5%
<b>Disabled members</b>			
Number in pay status	191	209	-8.6%
Average age	75.3	74.6	N/A
Average monthly benefit	\$2,127	\$2,061	3.2%
<b>Beneficiaries</b>			
Number in pay status	768	759	1.2%
Average age	77.2	76.9	N/A
Average monthly benefit	\$1,666	\$1,568	6.3%

<sup>(1)</sup> Projected compensation for the June 30, 2015 valuation was calculated by increasing the annualized compensation earned during 2014-2015 by 3.50%.

<sup>(2)</sup> Includes terminated members due a refund of contributions.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT A**

**Table of Plan Coverage**

**ii. Miscellaneous Tier 2**

<b>Category</b>	<b>Year Ended June 30</b>		<b>Change From Prior Year</b>
	<b>2015</b>	<b>2014</b>	
<b>Active members in valuation</b>			
Number	68	74	-8.1%
Average age	54.8	54.2	N/A
Average service	24.7	23.8	N/A
Projected total compensation <sup>(1)</sup>	\$4,676,113	\$5,059,515	-7.6%
Projected average compensation	\$68,766	\$68,372	0.6%
Account balances	\$5,322,023	\$5,591,845	-4.8%
Total active vested members	68	74	-8.1%
<b>Vested terminated members</b>			
Number <sup>(2)</sup>	185	205	-9.8%
Average age	56.1	55.6	N/A
<b>Retired members</b>			
Number in pay status	317	299	6.0%
Average age	67.7	67.4	N/A
Average monthly benefit	\$1,029	\$995	3.4%
<b>Disabled members</b>			
Number in pay status	33	33	0.0%
Average age	65.4	64.8	N/A
Average monthly benefit	\$895	\$871	2.8%
<b>Beneficiaries</b>			
Number in pay status	46	43	7.0%
Average age	69.2	68.6	N/A
Average monthly benefit	\$684	\$692	-1.2%

<sup>(1)</sup> Projected compensation for the June 30, 2015 valuation was calculated by increasing the annualized compensation earned during 2014-2015 by 3.50%.

<sup>(2)</sup> Includes terminated members due a refund of contributions.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT A**

**Table of Plan Coverage**

**iii. Miscellaneous Tier 3**

<b>Category</b>	<b>Year Ended June 30</b>		<b>Change From Prior Year</b>
	<b>2015</b>	<b>2014</b>	
<b>Active members in valuation</b>			
Number	8,238	8,782	-6.2%
Average age	49.4	48.8	N/A
Average service	14.5	13.6	N/A
Projected total compensation <sup>(1),(2)</sup>	\$589,808,360	\$607,156,789	-2.9%
Projected average compensation	\$71,596	\$69,137	3.6%
Account balances	\$436,990,756	\$429,857,893	1.7%
Total active vested members	7,922	8,343	-5.0%
<b>Vested terminated members</b>			
Number <sup>(3)</sup>	2,357	2,343	0.6%
Average age	47.9	47.5	N/A
<b>Retired members</b>			
Number in pay status	3,528	3,166	11.4%
Average age	66.6	66.3	N/A
Average monthly benefit	\$2,306	\$2,207	4.5%
<b>Disabled members</b>			
Number in pay status	253	235	7.7%
Average age	62.2	61.9	N/A
Average monthly benefit	\$1,747	\$1,735	0.7%
<b>Beneficiaries</b>			
Number in pay status	324	287	12.9%
Average age	64.6	64.1	N/A
Average monthly benefit	\$981	\$932	5.3%

<sup>(1)</sup> Projected compensation for the June 30, 2015 valuation was calculated by increasing the annualized compensation earned during 2014-2015 by 3.50%.

<sup>(2)</sup> For members without a salary reported for the June 30, 2015 valuation, we have assigned them an annual salary of \$71,415.

<sup>(3)</sup> Includes terminated members due a refund of contributions.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT A**

**Table of Plan Coverage**

**iv. Miscellaneous Tier 4**

<b>Category</b>	<b>Year Ended June 30</b>		<b>Change From Prior Year</b>
	<b>2015</b>	<b>2014</b>	
<b>Active members in valuation</b>			
Number	306	296	3.4%
Average age	40.6	39.1	N/A
Average service	2.7	1.8	N/A
Projected total compensation <sup>(1)</sup>	\$20,409,812	\$17,857,160	14.3%
Projected average compensation	\$66,699	\$60,328	10.6%
Account balances	\$3,777,051	\$2,302,207	64.1%
Total active vested members	8	7	14.3%
<b>Vested terminated members</b>			
Number <sup>(2)</sup>	51	46	10.9%
Average age	36.3	38.7	N/A
<b>Retired members</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A
<b>Disabled members</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A
<b>Beneficiaries</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A

<sup>(1)</sup> Projected compensation for the June 30, 2015 valuation was calculated by increasing the annualized compensation earned during 2014-2015 by 3.50%.

<sup>(2)</sup> Includes terminated members due a refund of contributions.



**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT A**

**Table of Plan Coverage  
v. Miscellaneous Tier 5**

Category	Year Ended June 30		Change From Prior Year
	2015	2014	
<b>Active members in valuation</b>			
Number	1,377	784	75.6%
Average age	37.3	37.1	N/A
Average service	1.1	0.7	N/A
Projected total compensation <sup>(1)</sup>	\$69,050,148	\$37,428,672	84.5%
Projected average compensation	\$50,145	\$47,741	5.0%
Account balances	\$5,816,818	\$1,886,595	208.3%
Total active vested members	5	2	150.0%
<b>Vested terminated members</b>			
Number <sup>(2)</sup>	129	56	130.4%
Average age	39.1	41.1	N/A
<b>Retired members</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A
<b>Disabled members</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A
<b>Beneficiaries</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A

<sup>(1)</sup> Projected compensation for the June 30, 2015 valuation was calculated by increasing the annualized compensation earned during 2014-2015 by 3.50%.

<sup>(2)</sup> Includes terminated members due a refund of contributions.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT A**

**Table of Plan Coverage**

**vi. Safety Tier 1**

<b>Category</b>	<b>Year Ended June 30</b>		<b>Change From Prior Year</b>
	<b>2015</b>	<b>2014</b>	
<b>Active members in valuation</b>			
Number	254	338	-24.9%
Average age	49.9	49.7	N/A
Average service	23.1	23.1	N/A
Projected total compensation <sup>(1)</sup>	\$32,288,171	\$41,995,513	-23.1%
Projected average compensation	\$127,119	\$124,247	2.3%
Account balances	\$46,182,258	\$56,732,469	-18.6%
Total active vested members	254	338	-24.9%
<b>Vested terminated members</b>			
Number <sup>(2)</sup>	93	102	-8.8%
Average age	50.9	50.0	N/A
<b>Retired members</b>			
Number in pay status	1,222	1,149	6.4%
Average age	64.8	64.9	N/A
Average monthly benefit	\$6,676	\$6,353	5.1%
<b>Disabled members</b>			
Number in pay status	200	200	0.0%
Average age	64.7	64.3	N/A
Average monthly benefit	\$4,375	\$4,152	5.4%
<b>Beneficiaries</b>			
Number in pay status	311	296	5.1%
Average age	67.0	66.4	N/A
Average monthly benefit	\$2,849	\$2,750	3.6%

<sup>(1)</sup> Projected compensation for the June 30, 2015 valuation was calculated by increasing the annualized compensation earned during 2014-2015 by 3.50%.

<sup>(2)</sup> Includes terminated members due a refund of contributions.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT A**

**Table of Plan Coverage**

**vii. Safety Tier 2**

Category	Year Ended June 30		Change From Prior Year
	2015	2014	
<b>Active members in valuation</b>			
Number	1,370	1,407	-2.6%
Average age	42.6	41.9	N/A
Average service	14.3	13.5	N/A
Projected total compensation <sup>(1),(2)</sup>	\$145,949,556	\$143,189,025	1.9%
Projected average compensation	\$106,533	\$101,769	4.7%
Account balances	\$125,287,345	\$110,921,100	13.0%
Total active vested members	1,345	1,378	-2.4%
<b>Vested terminated members</b>			
Number <sup>(3)</sup>	368	366	0.5%
Average age	41.4	40.3	N/A
<b>Retired members</b>			
Number in pay status	278	246	13.0%
Average age	64.5	64.8	N/A
Average monthly benefit	\$4,639	\$4,523	2.6%
<b>Disabled members</b>			
Number in pay status	52	48	8.3%
Average age	52.3	52.9	N/A
Average monthly benefit	\$3,108	\$3,019	2.9%
<b>Beneficiaries</b>			
Number in pay status	30	26	15.4%
Average age	56.7	53.9	N/A
Average monthly benefit	\$2,240	\$2,138	4.8%

<sup>(1)</sup> Projected compensation for the June 30, 2015 valuation was calculated by increasing the annualized compensation earned during 2014-2015 by 3.50%.

<sup>(2)</sup> For members without a salary reported for the June 30, 2015 valuation, we have assigned them an annual salary of \$106,605.

<sup>(3)</sup> Includes terminated members due a refund of contributions.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT A**

**Table of Plan Coverage**

**viii. Safety Tier 3**

Category	Year Ended June 30		Change From Prior Year
	2015	2014	
<b>Active members in valuation</b>			
Number	97	74	31.1%
Average age	35.6	34.6	N/A
Average service	4.2	2.6	N/A
Projected total compensation <sup>(1), (2)</sup>	\$8,708,725	\$6,201,324	40.4%
Projected average compensation	\$89,781	\$83,802	7.1%
Account balances	\$2,663,306	\$1,367,190	94.8%
Total active vested members	18	4	350.0%
<b>Vested terminated members</b>			
Number <sup>(3)</sup>	5	4	25.0%
Average age	40.4	34.2	N/A
<b>Retired members</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A
<b>Disabled members</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A
<b>Beneficiaries</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A

<sup>(1)</sup> Projected compensation for the June 30, 2015 valuation was calculated by increasing the annualized compensation earned during 2014-2015 by 3.50%.

<sup>(2)</sup> For members without a salary reported for the June 30, 2015 valuation, we have assigned them an assumed salary of \$89,010.

<sup>(3)</sup> Includes terminated members due a refund of contributions.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT A**

**Table of Plan Coverage**

**ix. Safety Tier 4**

<b>Category</b>	<b>Year Ended June 30</b>		<b>Change From Prior Year</b>
	<b>2015</b>	<b>2014</b>	
<b>Active members in valuation</b>			
Number	258	145	77.9%
Average age	31.8	32.0	N/A
Average service	1.4	1.4	N/A
Projected total compensation <sup>(1)</sup>	\$18,255,550	\$9,533,877	91.5%
Projected average compensation	\$70,758	\$65,751	7.6%
Account balances	\$2,887,306	\$1,063,328	171.5%
Total active vested members	10	10	0.0%
<b>Vested terminated members</b>			
Number <sup>(2)</sup>	10	5	100.0%
Average age	33.5	30.4	N/A
<b>Retired members</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A
<b>Disabled members</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A
<b>Beneficiaries</b>			
Number in pay status	--	--	N/A
Average age	--	--	N/A
Average monthly benefit	--	--	N/A

<sup>(1)</sup> Projected compensation for the June, 30, 2015 valuation was calculated by increasing the annualized compensation earned during 2014-2015 by 3.50%.

<sup>(2)</sup> Includes terminated members due a refund of contributions.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT B**

**Members in Active Service and Projected Average Compensation as of June 30, 2015  
By Age and Years of Service**

**i. Miscellaneous Tier 1**

Age	Years of Service									
	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over
Under 25	--	--	--	--	--	--	--	--	--	--
25 - 29	--	--	--	--	--	--	--	--	--	--
30 - 34	--	--	--	--	--	--	--	--	--	--
35 - 39	--	--	--	--	--	--	--	--	--	--
40 - 44	--	--	--	--	--	--	--	--	--	--
45 - 49	--	--	--	--	--	--	--	--	--	--
50 - 54	13	--	--	1	--	1	--	10	1	--
55 - 59	\$72,619	--	--	\$46,928	--	\$30,507	--	\$82,855	\$38,062	--
60 - 64	44	--	--	--	--	3	4	22	15	--
65 - 69	74,693	--	--	--	--	51,314	\$79,885	72,658	80,968	--
70 & over	33	--	--	--	--	2	3	7	16	5
	82,837	--	--	--	--	95,621	146,582	69,950	78,775	\$70,518
	13	--	1	--	--	1	1	3	4	3
	91,272	--	\$155,062	--	--	45,993	172,177	77,018	105,236	53,768
	1	--	--	--	--	--	--	--	--	1
	43,261	--	--	--	--	--	--	--	--	43,261
<b>Total</b>	104	--	1	1	--	7	8	42	36	9
	\$78,788	--	\$155,062	\$46,928	--	\$60,240	\$116,433	\$74,946	\$81,498	\$61,906

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT B**

**Members in Active Service and Projected Average Compensation as of June 30, 2015  
By Age and Years of Service**

**ii. Miscellaneous Tier 2**

Age	Years of Service									
	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over
Under 25	--	--	--	--	--	--	--	--	--	--
25 - 29	--	--	--	--	--	--	--	--	--	--
30 - 34	--	--	--	--	--	--	--	--	--	--
35 - 39	--	--	--	--	--	--	--	--	--	--
40 - 44	1	--	--	--	--	1	--	--	--	--
	\$58,879	--	--	--	--	\$58,879	--	--	--	--
45 - 49	13	--	--	--	1	10	2	--	--	--
	67,914	--	--	--	\$82,652	69,142	\$54,406	--	--	--
50 - 54	22	--	--	1	2	8	8	3	--	--
	66,168	--	--	\$24,735	65,537	80,353	61,703	\$54,483	--	--
55 - 59	23	--	--	1	--	7	13	2	--	--
	75,296	--	--	55,412	--	71,228	79,497	72,169	--	--
60 - 64	6	--	--	1	--	2	1	2	--	--
	54,521	--	--	26,763	--	58,062	80,603	51,817	--	--
65 - 69	2	--	--	--	--	2	--	--	--	--
	78,688	--	--	--	--	78,688	--	--	--	--
70 & over	1	--	--	--	--	1	--	--	--	--
	62,352	--	--	--	--	62,352	--	--	--	--
<b>Total</b>	68	--	--	3	3	31	24	7	--	--
	\$68,766	--	--	\$35,637	\$71,242	\$71,857	\$71,521	\$58,774	--	--

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT B**

**Members in Active Service and Projected Average Compensation as of June 30, 2015  
By Age and Years of Service**

**iii. Miscellaneous Tier 3**

Age	Years of Service									
	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over
<b>Under 25</b>	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>25 - 29</b>	88	27	60	1	--	--	--	--	--	--
	\$48,888	\$44,994	\$50,742	\$42,813	--	--	--	--	--	--
<b>30 - 34</b>	529	64	363	100	2	--	--	--	--	--
	61,309	64,639	60,635	61,419	\$71,537	--	--	--	--	--
<b>35 - 39</b>	964	61	455	372	74	2	--	--	--	--
	65,630	64,412	65,698	64,930	69,263	\$83,223	--	--	--	--
<b>40 - 44</b>	1,173	36	366	482	251	36	2	--	--	--
	72,664	62,614	69,950	72,571	77,065	81,168	\$67,289	--	--	--
<b>45 - 49</b>	1,401	47	316	465	325	185	60	2	1	--
	73,825	58,020	66,737	71,634	79,900	81,726	82,351	\$90,732	\$93,442	--
<b>50 - 54</b>	1,516	32	279	373	319	257	212	41	3	--
	75,007	64,899	67,579	68,867	77,875	79,728	85,078	84,109	91,501	--
<b>55 - 59</b>	1,432	32	226	335	285	244	214	90	5	1
	75,218	68,224	65,821	65,909	72,358	81,222	89,854	92,563	96,898	\$89,965
<b>60 - 64</b>	811	13	150	208	186	117	100	35	2	--
	70,736	73,683	63,490	65,298	70,277	75,676	78,343	91,264	174,795	--
<b>65 - 69</b>	263	4	60	66	63	38	21	10	1	--
	69,832	62,818	70,799	63,187	70,753	79,386	65,374	67,824	170,963	--
<b>70 &amp; over</b>	61	4	10	17	16	8	5	1	--	--
	65,367	52,727	58,051	71,621	55,186	76,878	80,578	77,500	--	--
<b>Total</b>	8,238	320	2,285	2,419	1,521	887	614	179	12	1
	\$71,596	\$62,318	\$65,523	\$68,361	\$75,250	\$80,047	\$84,611	\$88,886	\$114,416	\$89,965



**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT B**

**Members in Active Service and Projected Average Compensation as of June 30, 2015  
By Age and Years of Service**

**iv. Miscellaneous Tier 4**

Age	Years of Service									
	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over
<b>Under 25</b>	2	2	--	--	--	--	--	--	--	--
	\$40,774	\$40,774	--	--	--	--	--	--	--	--
<b>25 - 29</b>	45	45	--	--	--	--	--	--	--	--
	60,986	60,986	--	--	--	--	--	--	--	--
<b>30 - 34</b>	71	68	3	--	--	--	--	--	--	--
	66,404	66,572	\$62,602	--	--	--	--	--	--	--
<b>35 - 39</b>	50	49	1	--	--	--	--	--	--	--
	64,814	65,070	52,237	--	--	--	--	--	--	--
<b>40 - 44</b>	39	39	--	--	--	--	--	--	--	--
	59,683	59,683	--	--	--	--	--	--	--	--
<b>45 - 49</b>	33	32	1	--	--	--	--	--	--	--
	69,587	69,763	63,977	--	--	--	--	--	--	--
<b>50 - 54</b>	30	29	--	1	--	--	--	--	--	--
	71,938	72,520	--	\$55,080	--	--	--	--	--	--
<b>55 - 59</b>	22	21	1	--	--	--	--	--	--	--
	60,847	59,626	86,474	--	--	--	--	--	--	--
<b>60 - 64</b>	13	13	--	--	--	--	--	--	--	--
	96,387	96,387	--	--	--	--	--	--	--	--
<b>65 - 69</b>	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>70 &amp; over</b>	1	1	--	--	--	--	--	--	--	--
	254,686	254,686	--	--	--	--	--	--	--	--
<b>Total</b>	306	299	6	1	--	--	--	--	--	--
	\$66,699	\$66,770	\$65,083	\$55,080	--	--	--	--	--	--

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT B**

**Members in Active Service and Projected Average Compensation as of June 30, 2015  
By Age and Years of Service**

**v. Miscellaneous Tier 5**

Age	Years of Service									
	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over
<b>Under 25</b>	79	79	--	--	--	--	--	--	--	--
	\$39,843	\$39,843	--	--	--	--	--	--	--	--
<b>25 - 29</b>	326	325	1	--	--	--	--	--	--	--
	48,663	48,596	\$70,413	--	--	--	--	--	--	--
<b>30 - 34</b>	306	306	--	--	--	--	--	--	--	--
	51,611	51,611	--	--	--	--	--	--	--	--
<b>35 - 39</b>	182	182	--	--	--	--	--	--	--	--
	50,280	50,280	--	--	--	--	--	--	--	--
<b>40 - 44</b>	171	171	--	--	--	--	--	--	--	--
	50,653	50,653	--	--	--	--	--	--	--	--
<b>45 - 49</b>	121	119	2	--	--	--	--	--	--	--
	49,807	50,135	30,265	--	--	--	--	--	--	--
<b>50 - 54</b>	101	101	--	--	--	--	--	--	--	--
	54,075	54,075	--	--	--	--	--	--	--	--
<b>55 - 59</b>	55	54	1	--	--	--	--	--	--	--
	48,939	49,098	40,348	--	--	--	--	--	--	--
<b>60 - 64</b>	30	29	--	1	--	--	--	--	--	--
	61,820	61,489	--	\$71,407	--	--	--	--	--	--
<b>65 - 69</b>	6	6	--	--	--	--	--	--	--	--
	66,403	66,403	--	--	--	--	--	--	--	--
<b>70 &amp; over</b>	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	1,377	1,372	4	1	--	--	--	--	--	--
	\$50,145	\$50,151	\$42,823	\$71,407	--	--	--	--	--	--

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT B**

**Members in Active Service and Projected Average Compensation as of June 30, 2015  
By Age and Years of Service**

**vi. Safety Tier 1**

Age	Years of Service									
	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over
Under 25	--	--	--	--	--	--	--	--	--	--
25 - 29	--	--	--	--	--	--	--	--	--	--
30 - 34	--	--	--	--	--	--	--	--	--	--
35 - 39	--	--	--	--	--	--	--	--	--	--
40 - 44	31	--	1	--	9	21	--	--	--	--
45 - 49	\$125,119	--	\$112,268	--	\$96,009	\$138,207	--	--	--	--
50 - 54	116	--	--	2	11	60	43	--	--	--
55 - 59	133,646	--	--	\$129,822	107,527	132,526	\$142,067	--	--	--
60 - 64	74	--	--	3	9	22	37	3	--	--
65 - 69	125,959	--	--	161,579	122,007	117,701	127,052	\$149,273	--	--
70 & over	27	--	1	1	8	6	9	2	--	--
	109,608	--	39,464	104,093	107,012	106,903	113,550	148,197	--	--
	6	--	--	--	2	1	2	--	1	--
	104,371	--	--	--	93,684	116,842	90,696	--	\$140,624	--
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	254	--	2	6	39	110	91	5	1	--
	\$127,119	--	\$75,866	\$141,413	\$107,395	\$129,105	\$132,012	\$148,842	\$140,624	--

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT B**

**Members in Active Service and Projected Average Compensation as of June 30, 2015  
By Age and Years of Service**

**vii. Safety Tier 2**

Age	Years of Service									
	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over
<b>Under 25</b>	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>25 - 29</b>	14	3	9	2	--	--	--	--	--	--
	\$96,397	\$74,871	\$100,256	\$111,319	--	--	--	--	--	--
<b>30 - 34</b>	154	8	79	65	2	--	--	--	--	--
	100,262	83,872	97,991	104,388	\$121,405	--	--	--	--	--
<b>35 - 39</b>	345	5	81	218	38	3	--	--	--	--
	99,723	81,095	95,350	98,520	116,638	\$121,992	--	--	--	--
<b>40 - 44</b>	413	5	28	149	208	23	--	--	--	--
	110,105	87,279	95,295	102,917	115,604	129,935	--	--	--	--
<b>45 - 49</b>	268	1	13	58	127	63	6	--	--	--
	112,559	34,543	107,090	107,144	113,300	118,050	\$116,436	--	--	--
<b>50 - 54</b>	114	1	10	25	42	25	11	--	--	--
	111,443	120,683	109,333	99,626	115,952	116,073	111,637	--	--	--
<b>55 - 59</b>	39	2	10	4	14	5	4	--	--	--
	105,888	118,028	113,657	108,411	108,645	88,171	90,373	--	--	--
<b>60 - 64</b>	22	--	8	6	3	3	1	1	--	--
	99,816	--	111,392	98,065	91,655	94,297	66,007	\$92,567	--	--
<b>65 - 69</b>	1	--	--	1	--	--	--	--	--	--
	86,038	--	--	86,038	--	--	--	--	--	--
<b>70 &amp; over</b>	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	1,370	25	238	528	434	122	22	1	--	--
	\$106,533	\$85,150	\$98,943	\$101,577	\$114,690	\$118,174	\$107,005	\$92,567	--	--

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT B**

**Members in Active Service and Projected Average Compensation as of June 30, 2015  
By Age and Years of Service**

**viii. Safety Tier 3**

Age	Years of Service									
	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over
<b>Under 25</b>	1	1	--	--	--	--	--	--	--	--
	\$100,377	\$100,377	--	--	--	--	--	--	--	--
<b>25 - 29</b>	22	21	1	--	--	--	--	--	--	--
	83,385	83,267	\$85,852	--	--	--	--	--	--	--
<b>30 - 34</b>	34	27	6	1	--	--	--	--	--	--
	88,114	90,511	74,049	\$107,797	--	--	--	--	--	--
<b>35 - 39</b>	16	13	2	--	1	--	--	--	--	--
	86,959	89,765	80,616	--	\$63,157	--	--	--	--	--
<b>40 - 44</b>	11	9	1	--	1	--	--	--	--	--
	107,703	110,124	85,860	--	107,764	--	--	--	--	--
<b>45 - 49</b>	6	2	2	1	--	1	--	--	--	--
	83,003	94,904	85,656	85,307	--	\$51,591	--	--	--	--
<b>50 - 54</b>	4	3	1	--	--	--	--	--	--	--
	88,301	86,216	94,556	--	--	--	--	--	--	--
<b>55 - 59</b>	2	2	--	--	--	--	--	--	--	--
	117,253	117,253	--	--	--	--	--	--	--	--
<b>60 - 64</b>	1	1	--	--	--	--	--	--	--	--
	116,193	116,193	--	--	--	--	--	--	--	--
<b>65 - 69</b>	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>70 &amp; over</b>	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	97	79	13	2	2	1	--	--	--	--
	\$89,781	\$91,772	\$80,239	\$96,553	\$85,461	\$51,591	--	--	--	--

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT B**

**Members in Active Service and Projected Average Compensation as of June 30, 2015  
By Age and Years of Service**

**ix. Safety Tier 4**

Age	Years of Service									
	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over
<b>Under 25</b>	37	37	--	--	--	--	--	--	--	--
	\$72,189	\$72,189	--	--	--	--	--	--	--	--
<b>25 - 29</b>	103	103	--	--	--	--	--	--	--	--
	68,574	68,574	--	--	--	--	--	--	--	--
<b>30 - 34</b>	60	55	5	--	--	--	--	--	--	--
	67,696	68,967	\$53,713	--	--	--	--	--	--	--
<b>35 - 39</b>	19	17	2	--	--	--	--	--	--	--
	70,276	68,798	82,840	--	--	--	--	--	--	--
<b>40 - 44</b>	12	11	1	--	--	--	--	--	--	--
	71,702	72,785	59,785	--	--	--	--	--	--	--
<b>45 - 49</b>	10	8	2	--	--	--	--	--	--	--
	71,460	72,748	66,311	--	--	--	--	--	--	--
<b>50 - 54</b>	14	14	--	--	--	--	--	--	--	--
	90,503	90,503	--	--	--	--	--	--	--	--
<b>55 - 59</b>	2	2	--	--	--	--	--	--	--	--
	94,279	94,279	--	--	--	--	--	--	--	--
<b>60 - 64</b>	1	1	--	--	--	--	--	--	--	--
	93,837	93,837	--	--	--	--	--	--	--	--
<b>65 - 69</b>	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>70 &amp; over</b>	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	258	248	10	--	--	--	--	--	--	--
	\$70,758	\$71,084	\$62,665	--	--	--	--	--	--	--

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT C**

**Reconciliation of Member Data – June 30, 2014 to June 30, 2015**

	<b>Active Members</b>	<b>Vested Terminated Members<sup>(1)</sup></b>	<b>Pensioners</b>	<b>Disableds</b>	<b>Beneficiaries</b>	<b>Total</b>
Number as of June 30, 2014	12,049	3,201	7,913	725	1,411	25,299
New members	887	71	0	0	118	1,076
Terminations – with vested rights	-286	286	0	0	0	0
Contributions refunds	-118	-80	0	0	0	-198
Retirements	-467	-160	627	0	0	0
New disabilities	-14	-8	-16	38	0	0
Return to work	30	-30	0	0	0	0
Deaths	-9	-10	-191	-34	-59	-303
Data adjustments	0	-9	0	0	9	0
Number as of June 30, 2015	12,072	3,261	8,333	729	1,479	25,874

<sup>(1)</sup> Includes terminated members due a refund of member contributions.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT D**

**Summary Statement of Income and Expenses on an Actuarial Value Basis**

	Year Ended June 30, 2015	Year Ended June 30, 2014
<b>Contribution income:</b>		
Employer contributions	\$222,959,000	\$210,503,000
Employee contributions	<u>68,143,000</u>	<u>57,635,000</u>
Net contribution income	\$291,102,000	\$268,138,000
<b>Investment income:</b>		
Interest, dividends and other income	\$157,110,000	\$172,339,000
Recognition of capital appreciation	519,569,000	477,209,000
Less investment and administrative fees	<u>-67,292,000</u>	<u>-54,831,000</u>
Net investment income	<u>609,387,000</u>	<u>594,718,000</u>
<b>Total income available for benefits</b>	<b>\$900,489,000</b>	<b>\$862,855,000</b>
<b>Less benefit payments:</b>		
Benefits paid	-\$372,369,000	-\$344,890,000
Withdrawal of contributions	<u>-2,288,000</u>	<u>-2,729,000</u>
Net benefit payments	-\$374,657,000	-\$347,619,000
<b>Change in reserve for future benefits</b>	<b>\$525,832,000</b>	<b>\$515,236,000</b>

*Note: Results may be slightly off due to rounding.*



**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT E**

**Summary Statement of Assets**

	<b>Year Ended June 30, 2015</b>	<b>Year Ended June 30, 2014</b>
<b>Cash equivalents</b>	\$658,971,000	\$430,776,000
<b>Accounts receivable:</b>		
Securities sold	\$51,263,000	\$74,836,000
Accrued investment income	33,230,000	29,410,000
Employee and employer contributions	<u>7,892,000</u>	<u>7,923,000</u>
Total accounts receivable	92,385,000	112,169,000
<b>Investments:</b>		
Equities	\$3,815,035,000	\$4,080,864,000
Absolute return	773,662,000	759,869,000
Opportunities	134,137,000	76,290,000
Fixed income investments	1,470,797,000	1,485,471,000
Real assets	1,210,739,000	1,244,761,000
Securities lending collateral	<u>320,650,000</u>	<u>313,536,000</u>
Total investments at market value	7,725,020,000	7,960,791,000
<b>Other assets</b>	<u>1,199,000</u>	<u>2,739,000</u>
<b>Total assets</b>	\$8,477,575,000	\$8,506,475,000
<b>Less accounts payable:</b>		
Accounts payable and other liabilities	-\$37,112,000	-\$39,347,000
Investment trades, mortgages, and warrants payable	-240,999,000	-343,591,000
Securities lending liability	<u>-320,650,000</u>	<u>-313,536,000</u>
Total accounts payable	-\$598,761,000	-\$696,474,000
<b>Net assets at market value</b>	<u>\$7,878,814,000</u>	<u>\$7,810,001,000</u>
<b>Net assets at actuarial value</b>	<u>\$7,838,825,000</u>	<u>\$7,312,993,000</u>
<b>Net assets at valuation value</b>	<u>\$7,767,116,000</u>	<u>\$7,277,721,000</u>

*Note: Results may be slightly off due to rounding.*

## SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System

### EXHIBIT F

#### Actuarial Balance Sheet

An overview of the Plan's funding is given by an Actuarial Balance Sheet. In this approach, we first determine the amount and timing of all future payments that will be made by the Plan for current participants. We then discount these payments at the valuation interest rate to the date of the valuation, thereby determining their present value. We refer to this present value as the "liability" of the Plan.

Second, we determine how this liability will be met. These actuarial "assets" include the net amount of assets already accumulated by the Plan, the present value of future member contributions, the present value of future employer normal cost contributions, and the present value of future employer amortization payments.

#### Actuarial Balance Sheet (Dollar Amounts in Thousands)

Assets	Basic	Cola	Total
1. Total valuation assets			
a. Valuation value assets	\$5,280,995	\$2,486,121	\$7,767,116
b. Balance of transfer to offset member COLA rate	0	21,383	21,383
c. Retiree health benefit reserve	0	0	0
d. Adjustment to 1a. for surplus/(deficit) for withdrawn employer (preliminary) <sup>(1)</sup>	-30,813	0	-30,813
e. Contingency Reserve	81,139	0	81,139
2. Present value of future contributions by members	366,170	111,580	477,750
3. Present value of future employer contributions for:			
a. Entry age normal cost	796,372	132,515	928,887
b. Unfunded actuarial accrued liability	<u>1,071,639</u>	<u>118,215</u>	<u>1,189,854</u>
4. Total current and future assets	\$7,565,502	\$2,869,814	\$10,435,316
<b>Liabilities</b>			
5. Present value of retirement allowances payable to present retired members	\$3,167,067	\$1,850,646	\$5,017,713
6. Present value of retirement allowances to be granted			
a. Active members	4,073,297	955,465	5,028,762
b. Inactive members with vested rights	274,812	63,703	338,515
7. Retiree health benefit reserve	0	0	0
8. Surplus/(deficit) for withdrawn employer (preliminary) <sup>(1)</sup>	-30,813	0	-30,813
9. Contingency Reserve	<u>81,139</u>	<u>0</u>	<u>81,139</u>
10. Total liabilities	\$7,565,502	\$2,869,814	\$10,435,316

<sup>(1)</sup> Based on the latest estimate available as of June 30, 2014 for Florin Fire adjusted with interest at the assumed rate of investment return to June 30, 2015.

Note: Results may be slightly off due to rounding.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

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**EXHIBIT G**

**Summary of Reported Asset Information as of June 30, 2015**

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	<b>Reserves</b>
<b><u>Included in Valuation Value of Assets</u></b>	
Employee reserve	\$726,980,210
Employer reserve	2,621,588,317
Retiree reserve	4,393,326,559
Retiree death benefit reserve	<u>15,790,702</u>
Subtotal: Preliminary Valuation Value of Assets <sup>(1)</sup>	\$7,757,685,788
<b><u>Not Included in Valuation Value of Assets</u></b>	
Retiree health benefit reserve	\$0
Contingency Reserve	<u>81,139,092</u>
Subtotal: Actuarial Value of Assets	\$7,838,824,880
Market stabilization reserve	<u>39,989,120</u>
Total Market Value of Assets	\$7,878,814,000

<sup>(1)</sup> Please note that the final Valuation Value of Assets (i.e. \$7,767,116,227) is calculated by taking the preliminary Valuation Value of Assets and adjusting for the balance of transfer to offset member COLA rate and for the surplus/(deficit) for the withdrawn employer.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT G**

**Summary of Reported Asset Information as of June 30, 2015 (Continued) – Change in Reserves**

	<b>Balance at 06/30/2014</b>	<b>Interest Credited</b>	<b>Contributions</b>	<b>Benefits</b>	<b>Transfers</b>	<b>Balance at 06/30/2015</b>
Employee Reserve	\$713,612,615	\$11,021,663	\$68,142,630	\$(2,288,267)	\$(63,508,431)	\$726,980,210
Employer Reserve	2,564,792,426	208,826,537	222,959,365	(411,109)	(374,578,902)	2,621,588,317
Retiree Reserve	3,973,777,830	352,652,760	0	(371,191,364)	438,087,333	4,393,236,559
Death Benefit Reserve	<u>15,260,018</u>	<u>1,297,184</u>	<u>0</u>	<u>(766,500)</u>	<u>0</u>	<u>15,790,702</u>
<b>Subtotal</b>	\$7,267,442,889	\$573,798,144	\$291,101,995	\$(374,657,240)	\$0	\$7,757,685,788
Contingency Reserve	\$45,549,661	\$35,589,431	\$0	\$0	\$0	\$81,139,092
Retiree Health Benefit Reserve	<u>0</u>	<u>0</u>	<u>0</u>	<u>\$0</u>	<u>0</u>	<u>0</u>
<b>Subtotal</b>	\$45,549,661	\$35,589,431	\$0	\$0	\$0	\$81,139,092
Total Allocated Reserves	\$7,312,992,550	\$609,387,575	\$291,101,995	\$(374,657,240)	\$0	\$7,838,824,880
Market Stabilization Reserve	<u>\$497,008,450</u>	<u>\$(457,019,330)</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$39,989,120</u>
<b>Net Market Value of Assets</b>	<u>\$7,810,001,000</u>	<u>\$152,368,245</u>	<u>\$291,101,995</u>	<u>\$(374,657,240)</u>	<u>\$0</u>	<u>\$7,878,814,000</u>

*Note: Results may be slightly off due to rounding.*

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

**EXHIBIT G**

**Summary of Reported Asset Information as of June 30, 2015 (Continued) – Summary of Earnings**

	<u>Per Excess Earnings Policy</u>
<b>Earnings from July 1, 2014 to June 30, 2015</b>	\$152,368,245
Contingency Reserve <sup>(1)</sup>	<u>0</u>
Subtotal:	\$152,368,245
<b>Amounts Credited for:</b>	
Market Stabilization Reserve	\$457,019,330
Regular Interest Crediting	<u>(538,208,712)</u>
<b>Subtotal</b>	\$(81,189,382)
<b>Net Earnings</b>	\$71,178,863
<b>Amount Credited Under Excess Earnings Policy for:</b>	
Contingency Reserve <sup>(1)</sup>	\$35,589,431
Board Provided Supplemental Benefits	0
Amount Over Reserved Benefits	35,589,432
Employer Reserves	0
Member Future COLA Contribution Offset	<u>0</u>
<b>Subtotal</b>	\$71,178,863
<b>Remaining Excess Earnings</b>	<u>\$0</u>

<sup>(1)</sup> As there was a balance of \$45,549,661 in the Contingency Reserve as of June 30, 2014, the total balance in that reserve as of June 30, 2015 after adding the excess earnings from 2014/2015 is \$81,139,092.

### SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System

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#### EXHIBIT H

#### Development of Unfunded/(Overfunded) Actuarial Accrued Liability for Year Ended June 30, 2015

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1.	Unfunded actuarial accrued liability at beginning of year		\$1,267,935,000
2.	Total normal cost		192,256,000
3.	Expected employer and member contributions		-283,108,000
4.	Interest		<u>92,019,000</u>
5.	Expected unfunded actuarial accrued liability		\$1,269,102,000
6.	Actuarial (gain)/loss due to all changes:		
	(a) Investment return	-\$23,638,000	
	(b) Actual contributions greater than expected <sup>(1),(2)</sup>	-14,910,000	
	(c) Salary increases less than expected <sup>(2)</sup>	-39,670,000	
	(d) COLA increases less than expected <sup>(2)</sup>	-8,381,000	
	(e) Other experience loss <sup>(2)</sup>	4,362,000	
	(f) Withdrawn employers: Library Authority and Air Quality	2,989,000	
	(g) Total changes		<u>-\$79,248,000</u>
7.	Unfunded actuarial accrued liability at end of year		<u>\$1,189,854,000</u>

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<sup>(1)</sup> Due to the one-year lag in implementation of the contribution rates determined in the June 30, 2014 valuation.

<sup>(2)</sup> The sum of 6(b) through 6(e) is equal to the net gain of \$58.6 million shown in Section 2, Chart 9.

### SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System

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#### EXHIBIT I

#### Section 415 Limitations

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Section 415 of the Internal Revenue Code (IRC) specifies the maximum benefits that may be paid to an individual from a defined benefit plan and the maximum amounts that may be allocated each year to an individual's account in a defined contribution plan.

A qualified pension plan may not pay benefits in excess of the Section 415 limits. The ultimate penalty for non-compliance is disqualification: active participants could be taxed on their vested benefits and the IRS may seek to tax the income earned on the plan's assets.

In particular, Section 415(b) of the IRC limits the maximum annual benefit payable at the Normal Retirement Age to a dollar amount indexed for inflation. That limit is \$210,000 for 2014 and 2015. Normal Retirement Age for these purposes is age 62. These are the limits in simplified terms. They must be adjusted based on each participant's circumstances, for such things as age at retirement, form of benefits chosen and after tax contributions.

Benefits for members in non-CalPEPRA tiers in excess of the limits may be paid through a qualified governmental excess plan that meets the requirements of Section 415(m).

Legal Counsel's review and interpretation of the law and regulations should be sought on any questions in this regard.

Contributions rates determined in this valuation have not been reduced for the Section 415 limitations. Actual limitations will result in gains as they occur.

**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

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**EXHIBIT J**

**Definitions of Pension Terms**

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The following list defines certain technical terms for the convenience of the reader:

**Assumptions or Actuarial Assumptions:**

The estimates on which the cost of the Plan is calculated including:

- (a) Investment return — the rate of investment yield that the Plan will earn over the long-term future;
- (b) Mortality rates — the death rates of employees and pensioners; life expectancy is based on these rates;
- (c) Retirement rates — the rate or probability of retirement at a given age; and
- (d) Turnover rates — the rates at which employees of various ages are expected to leave employment for reasons other than death, disability, or retirement.

**Normal Cost:**

The amount of contributions required to fund the level cost allocated to the current year of service.

**Actuarial Accrued Liability For Actives:**

The equivalent of the accumulated normal costs allocated to the years before the valuation date.

**Actuarial Accrued Liability For Pensioners:**

The single sum value of lifetime benefits to existing pensioners. This sum takes account of life expectancies appropriate to the ages of the pensioners and the interest that the sum is expected to earn before it is entirely paid out in benefits.

**Unfunded Actuarial Accrued Liability:**

The extent to which the actuarial accrued liability of the Plan exceeds (or is exceeded by) the assets of the Plan. There is a wide range of approaches to recognizing the unfunded or overfunded actuarial accrued liability, from meeting the interest accrual only to amortizing it over a specific period of time.



**SECTION 3: Supplemental Information for the Sacramento County Employees' Retirement System**

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**Amortization of the Unfunded  
(Overfunded) Actuarial  
Accrued Liability:**

Payments made over a period of years equal in value to the Plan's unfunded or overfunded actuarial accrued liability.

**Investment Return:**

The rate of earnings of the Plan from its investments, including interest, dividends and capital gain and loss adjustments, computed as a percentage of the average value of the fund. For actuarial purposes, the investment return often reflects a smoothing of the market value gains and losses to avoid significant swings in the value of assets from one year to the next.

## SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System

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### EXHIBIT I

#### Summary of Actuarial Valuation Results

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The valuation was made with respect to the following data supplied to us:

1. Retired members as of the valuation date (including 1,479 beneficiaries in pay status)	10,541
2. Members inactive during year ended June 30, 2015 with vested rights	3,261
3. Members active during the year ended June 30, 2015	12,072

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The actuarial factors as of the valuation date are as follows (amounts in 000s):

1. Normal cost	\$193,303
2. Present value of future benefits	10,384,990
3. Present value of future normal costs	1,428,019
4. Actuarial accrued liability <sup>(1)</sup>	8,956,971
Retired members and beneficiaries	\$5,017,713
Inactive members with vested rights	338,515
Active members	3,600,743
5. Valuation value of assets <sup>(1)</sup> (\$7,878,814 at market value as reported by Retirement System)	7,767,116
6. Unfunded actuarial accrued liability	\$1,189,854

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<sup>(1)</sup> Excludes non-valuation reserves and designations.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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**EXHIBIT I (continued)**

**Summary of Actuarial Valuation Results**

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The determination of the recommended average employer contribution is as follows  
(amounts in 000s):

	<b>Dollar Amount</b>	<b>% of Payroll</b>
1. Total normal cost	\$193,303	21.54%
2. Expected employee contributions	<u>-79,325</u>	<u>-8.84%</u>
3. Employer normal cost: (1) + (2)	\$113,978	12.70%
4. Amortization of unfunded actuarial accrued liability	<u>88,300</u>	<u>9.84%</u>
5. Total recommended average employer contribution: (3) + (4)	\$202,278	22.54%
6. Projected compensation	\$897,341	

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**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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**EXHIBIT II**

**Schedule of Employer Contributions**

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<b>Plan Year Ended June 30</b>	<b>Annual Required Contributions</b>	<b>Actual Contributions</b>	<b>Percentage Contributed</b>
2006	\$154,052,000	\$132,708,000	86.1%*
2007	156,804,528	156,804,528	100.0%
2008	167,054,356	167,054,356	100.0%
2009	177,011,005	177,011,005	100.0%
2010	167,141,893	167,141,893	100.0%
2011	182,920,751	182,920,751	100.0%
2012	179,098,469	179,098,469	100.0%
2013	189,663,720	189,663,720	100.0%
2014	210,503,324	210,503,324	100.0%
2015	222,959,365	222,959,365	100.0%

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\* Caused by the phase-in of the employer rates adopted by the Board in the June 30, 2004 actuarial valuation.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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**EXHIBIT III**

**Actuarial Assumptions/Methods**

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**Rationale for Assumptions:**

The information and analysis used in selecting each assumption that has a significant effect on this actuarial valuation is shown in the July 1, 2010 through June 30, 2013 Actuarial Experience Study and June 30, 2014 Economic Actuarial Assumptions Reports both dated June 12, 2014.

**Actuarial Assumptions**

**Post – Retirement Mortality Rates:**

*Healthy:*

For Miscellaneous Members and Beneficiaries: RP-2000 Combined Healthy Mortality Table projected with Scale BB to 2022.

For Safety Members: RP-2000 Combined Healthy Mortality Table projected with Scale BB to 2022 set back one year for males and set forward two years for females.

*Disabled:*

For Miscellaneous Members: RP-2000 Disabled Retiree Mortality Table projected with Scale BB to 2022 with no age adjustment for males and set forward three years for females.

For Safety members: RP-2000 Combined Healthy Mortality Table projected with Scale BB to 2022 set forward two years.

The mortality tables shown above were determined to contain sufficient provision appropriate to reasonably reflect future mortality improvement, based on a review of the mortality experience in the June 30, 2013 Actuarial Experience Study.

*Member Contribution Rates:*

For Miscellaneous members: RP-2000 Combined Healthy Mortality Table projected with Scale BB to 2022 weighted 40% male and 60% female.

For Safety members: RP-2000 Combined Healthy Mortality Table projected with Scale BB to 2022 set back one year for males and set forward two years for females weighted 70% male and 30% female.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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**Termination Rates Before Retirement:**

Age	Rate (%)			
	Mortality			
	Miscellaneous		Safety	
	Male	Female	Male	Female
25	0.04	0.02	0.04	0.02
30	0.04	0.02	0.04	0.03
35	0.07	0.04	0.07	0.05
40	0.10	0.07	0.10	0.08
45	0.14	0.11	0.13	0.12
50	0.20	0.16	0.19	0.19
55	0.34	0.24	0.30	0.30
60	0.58	0.41	0.52	0.51
65	0.98	0.74	0.88	0.93

All Miscellaneous pre-retirement deaths are assumed to be non-duty. For Safety, 50% of pre-retirement deaths are assumed to be non-duty and the rest are assumed to be duty.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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**Termination Rates Before Retirement (continued):**

<b>Age</b>	<b>Rate (%)</b>	
	<b>Disability</b>	
	<b>Miscellaneous<sup>(1)</sup></b>	<b>Safety<sup>(2)</sup></b>
20	0.00	0.10
25	0.01	0.10
30	0.03	0.16
35	0.05	0.26
40	0.08	0.45
45	0.16	0.61
50	0.26	0.80
55	0.36	1.26
60	0.52	2.10

<sup>(1)</sup> 25% of Miscellaneous disabilities are assumed to be duty disabilities. The other 75% are assumed to be non-duty disabilities.

<sup>(2)</sup> 90% of Safety disabilities are assumed to be duty disabilities. The other 10% are assumed to be non-duty disabilities.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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**Termination Rates Before Retirement (continued):**

Rate (%)		
Withdrawal (< 5 Years of Service) <sup>(1)</sup>		
Years of Service	Miscellaneous	Safety
0	13.00	8.00
1	8.00	6.00
2	7.00	5.00
3	6.00	4.00
4	5.50	3.00
Withdrawal (5+ Years of Service) <sup>(2)</sup>		
Age	Miscellaneous	Safety
20	5.00	2.50
25	5.00	2.50
30	4.70	2.50
35	4.20	2.20
40	3.40	1.85
45	2.70	1.60
50	2.20	1.50
55	1.85	1.50
60	1.30	1.50
65	1.00	0.00

<sup>(1)</sup> 75% of the Miscellaneous members and 50% of the Safety members are assumed to elect a refund of contribution balance while the remaining 25% and 50% of Miscellaneous and Safety members, respectively, are assumed to elect a deferred retirement benefit. No withdrawal is assumed after a member is assumed to retire.

<sup>(2)</sup> 50% of the Miscellaneous members and 20% of the Safety members are assumed to elect a refund of contribution balance while the remaining 50% and 80% of Miscellaneous and Safety members, respectively, are assumed to elect a deferred retirement benefit. No withdrawal is assumed after a member is assumed to retire.



**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Retirement Rates:**

Age	Rate (%)						
	Miscellaneous Tier 1	Miscellaneous Tiers 2 & 3	Miscellaneous Tier 4	Miscellaneous Tier 5	Safety Tiers 1 & 2	Safety Tier 3	Safety Tier 4
45	0.00	0.00	0.00	0.00	2.00	1.50	0.00
46	0.00	0.00	0.00	0.00	2.00	1.50	0.00
47	0.00	0.00	0.00	0.00	2.00	1.50	0.00
48	0.00	0.00	0.00	0.00	2.00	1.50	0.00
49	0.00	0.00	0.00	0.00	5.00	4.00	0.00
50	6.00	2.00	2.00	0.00	25.00	10.00	15.00
51	4.00	2.00	2.00	0.00	18.00	12.00	10.50
52	4.00	2.00	2.00	4.00	18.00	14.00	12.00
53	4.00	3.00	2.00	1.50	22.00	16.00	14.00
54	7.00	4.00	3.00	2.50	22.00	18.00	15.50
55	10.00	6.00	4.00	3.50	22.00	50.00	40.00
56	15.00	6.00	5.00	4.50	25.00	25.00	25.00
57	16.00	8.00	6.00	5.50	25.00	25.00	25.00
58	18.00	12.00	7.00	6.50	25.00	25.00	25.00
59	22.00	14.00	8.00	7.50	30.00	30.00	25.00
60	28.00	14.00	9.00	8.50	45.00	45.00	45.00
61	30.00	14.00	10.00	9.50	55.00	55.00	55.00
62	35.00	25.00	18.00	17.00	70.00	70.00	70.00
63	35.00	30.00	16.00	15.00	70.00	70.00	70.00
64	40.00	35.00	20.00	19.00	70.00	70.00	70.00
65	50.00	40.00	25.00	24.00	100.00	100.00	100.00
66	45.00	45.00	20.00	20.00	100.00	100.00	100.00
67	45.00	45.00	20.00	20.00	100.00	100.00	100.00
68	50.00	50.00	30.00	30.00	100.00	100.00	100.00
69	60.00	60.00	40.00	40.00	100.00	100.00	100.00
70	100.00	100.00	100.00	100.00	100.00	100.00	100.00

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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**Retirement Age and Benefit for  
Deferred Vested Members:**

For deferred vested members, we make the following retirement assumption:

Miscellaneous Age:	59
Safety Age:	53

We assume that 40% of future Miscellaneous and 50% of future Safety deferred vested members will continue to work for a reciprocal employer. For reciprocals, we assume 4.50% and 5.25% compensation increases per annum, respectively.

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**Future Benefit Accruals:**

1.0 year of service per year for the full-time employees. Continuation of current partial service accrual for part-time employees.

**Unknown Data for Members:**

Same as those exhibited by members with similar known characteristics. If not specified, members are assumed to be male.

**Percent Married:**

80% of male members; 55% of female members.

**Age of Spouse:**

Female (or male) spouses are 3 years younger (or older) than their spouses.

**Service From Unused  
Sick Leave Conversion:**

The following assumptions for service converted from unused sick leave as a percentage of service at retirement are used:

Service Retirements:

Miscellaneous:	1.50%
Safety:	2.25%

Disability Retirements:

Miscellaneous:	0.00%
Safety:	0.25%

Pursuant to Section 31641.01, the cost of this benefit will be charged only to employers and will not affect member contribution rates.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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**Net Investment Return:** 7.50%; net of administration and investment expenses.

**Employee Contribution Crediting Rate<sup>1</sup>:** 3.25% (assumed rate of inflation); compounded semi-annually.

**Cost-of-Living Adjustment for Retirees:** Miscellaneous and Safety Tier 1 benefits are assumed to increase at 3.25% per year. Miscellaneous Tier 3, Tier 4 and Tier 5 and Safety Tier 2, Tier 3 and Tier 4 benefits are assumed to increase at 2.0% per year. Miscellaneous Tier 2 receive no COLA increases.

**Salary Increases:**

Annual Rate of Compensation Increase (%)		
Inflation: 3.25%, plus “across the board” salary increases of 0.25% per year; plus the following merit and promotional increases.		
Years of Service	Miscellaneous	Safety
0-1	5.00	8.00
1-2	4.50	7.00
2-3	3.75	6.00
3-4	3.50	5.00
4-5	3.00	4.00
5-6	2.50	3.50
6-7	2.25	3.25
7-8	2.00	3.00
8-9	1.75	2.75
9-10	1.00	2.00
10 or more	1.00	1.75

**Increase in Section 7522.10 Compensation Limit** Increase of 3.25% per year from the valuation date.

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<sup>1</sup> Current policy is to credit the member contribution account with interest up to the current 5-year Treasury rate, if such earnings are available. However, the difference in earnings between the 5-year Treasury rate and the target crediting rate will be applied to the other valuation reserves so that the overall valuation reserve target crediting rate is maintained at 7.50%.

## SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System

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### Actuarial Methods

<b>Actuarial Value of Assets:</b>	The market value of assets less unrecognized returns in each of the last seven years. Unrecognized return is equal to the difference between actual and expected returns on a market value basis and is recognized over a seven-year period. The deferred return is further adjusted, if necessary, so that the actuarial value of assets will stay within 30% of the market value of assets. Deferred gains and losses as of June 30, 2013 have been combined and will be recognized in equal amounts over a six-year period starting July 1, 2013.
<b>Valuation Value of Assets:</b>	Actuarial value of assets reduced by the value of the non-valuation reserves and designations.
<b>Actuarial Cost Method:</b>	Entry Age Actuarial Cost Method. Entry Age is the age at the member's hire date. Normal Cost and Actuarial Accrued Liability are calculated on an individual basis and are based on costs allocated as a level percentage of compensation.
<b>Amortization Policy:</b>	<p>The UAAL established as a result of the Early Retirement Incentive Program for LEMA members is amortized over a 10-year period beginning June 30, 2010. The balance of the UAAL as of June 30, 2012 shall be amortized separately from any future changes in UAAL over a period of 23 years from June 30, 2012.</p> <p>Any new UAAL as a result of actuarial gains or losses identified in the annual valuation as of June 30 will be amortized over a period of 20 years.</p> <p>Any new UAAL as a result of change in actuarial assumptions or methods will be amortized over a period of 20 years.</p> <p>The change in UAAL as a result of any plan amendments will be amortized over a period of 15 years and the change in UAAL resulting from retirement incentive programs will be amortized over a period of up to 5 years.</p>

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### **Changes in Actuarial Assumptions and Methods:**

There have been no changes in actuarial assumptions or methods since the previous valuation.

## SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System

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### EXHIBIT IV

#### Summary of Plan Provisions

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This exhibit summarizes the major provisions of the SCERS included in the valuation. It is not intended to be, nor should it be interpreted as, a complete statement of all plan provisions.

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<b>Membership Eligibility:</b>	Membership with SCERS usually begins with the employment by the County or member District as a permanent full-time or part-time employee as provided in the County Salary Resolution or the District's Salary Resolution.
<i>Miscellaneous Tier 1</i>	All Miscellaneous members hired prior to September 27, 1981.
<i>Miscellaneous Tier 2 and Tier 3</i>	All Miscellaneous members hired on or after September 27, 1981. Membership into Tier 2 or Tier 3 is determined by date of hire and by bargaining unit.
<i>Miscellaneous Tier 4</i>	All Miscellaneous members hired on or after January 1, 2012 as adopted by the County. Membership into Tier 4 is determined by date of hire.
<i>Miscellaneous Tier 5</i>	All Miscellaneous members hired on or after January 1, 2013.
<i>Safety Tier 1 and Tier 2</i>	Membership into Tier 1 or Tier 2 for Safety employee is determined by date of hire and by bargaining unit.
<i>Safety Tier 3</i>	All Safety members hired on or after January 1, 2012 as adopted by the County. Membership into Tier 3 is determined by date of hire.
<i>Safety Tier 4</i>	All Safety members hired on or after January 1, 2013.

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<b>Final Compensation for Benefit Determination:</b>	
<i>Miscellaneous and Safety Tier 1</i>	Highest consecutive 1 year (12 months) of compensation earnable (§31462.1) (FAS1)
<i>Miscellaneous Tier 2, Tier 3, and Tier 4 and Safety Tier 2 and Tier 3</i>	Highest consecutive 3 years (36 months) of compensation earnable. (§31462) (FAS3)
<i>Miscellaneous Tier 5 and Safety Tier 4</i>	Highest consecutive 3 years (36 months) of pensionable compensation. (§7522.10(c), §7522.32 and §7522.34) (FAS3)

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Service:** Years of service. (Yrs)

**Service Retirement Eligibility:**

*Miscellaneous*

*Tiers 1, 2, 3 and 4*

Age 50 with 10 years of service, or age 70 regardless of service, or after 30 years of service, regardless of age (§31672).

*Tier 5*

Age 52 with 5 years of service (§7522.20(a)).

*Safety*

*Tiers 1, 2 and 3*

Age 50 with 10 years of service, or after 20 years of Safety service, regardless of age (§31663.25).

*Tier 4*

Age 50 with 5 years of service (§7522.25(d)).

**Benefit Formula:**

**Miscellaneous Plans**

**Retirement Age**

**Benefit Formula**

*Miscellaneous Tier 1 (§31676.14)*

50

$(1.48\% \times \text{FAS1} - 1/3 \times 1.48\% \times \$350 \times 12) \times \text{Yrs}$

55

$(1.95\% \times \text{FAS1} - 1/3 \times 1.95\% \times \$350 \times 12) \times \text{Yrs}$

60

$(2.44\% \times \text{FAS1} - 1/3 \times 2.44\% \times \$350 \times 12) \times \text{Yrs}$

62

$(2.61\% \times \text{FAS1} - 1/3 \times 2.61\% \times \$350 \times 12) \times \text{Yrs}$

65 or later

$(2.61\% \times \text{FAS1} - 1/3 \times 2.61\% \times \$350 \times 12) \times \text{Yrs}$

*Miscellaneous Tier 2 and Tier 3*

50

$(1.48\% \times \text{FAS3} - 1/3 \times 1.48\% \times \$350 \times 12) \times \text{Yrs}$

*(§31676.14)*

55

$(1.95\% \times \text{FAS3} - 1/3 \times 1.95\% \times \$350 \times 12) \times \text{Yrs}$

60

$(2.44\% \times \text{FAS3} - 1/3 \times 2.44\% \times \$350 \times 12) \times \text{Yrs}$

62

$(2.61\% \times \text{FAS3} - 1/3 \times 2.61\% \times \$350 \times 12) \times \text{Yrs}$

65 or later

$(2.61\% \times \text{FAS3} - 1/3 \times 2.61\% \times \$350 \times 12) \times \text{Yrs}$

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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	<b>Retirement Age</b>	<b>Benefit Formula</b>
<i>Miscellaneous Tier 4 (§31676.1)</i>	50	(1.18% x FAS3 – 1/3 x 1.18% x \$350 x 12) x Yrs
	55	(1.49% x FAS3 – 1/3 x 1.49% x \$350 x 12) x Yrs
	60	(1.92% x FAS3 – 1/3 x 1.92% x \$350 x 12) x Yrs
	62	(2.09% x FAS3 – 1/3 x 2.09% x \$350 x 12) x Yrs
	65 or later	(2.43% x FAS3 – 1/3 x 2.43% x \$350 x 12) x Yrs
<i>Miscellaneous Tier 5 (§7522.20(a))</i>	52	1.00% x FAS3 x Yrs
	55	1.30% x FAS3 x Yrs
	60	1.80% x FAS3 x Yrs
	62	2.00% x FAS3 x Yrs
	65	2.30% x FAS3 x Yrs
	67 or later	2.50% x FAS3 x Yrs
 <b>Safety Plans</b>		
<i>Safety Tier 1 (§31664.1)</i>	<b>Retirement Age</b>	<b>Benefit Formula</b>
	50	(3.00% x FAS1 – 1/3 x 3.00% x \$350 x 12) x Yrs
	55	(3.00% x FAS1 – 1/3 x 3.00% x \$350 x 12) x Yrs
	60 or later	(3.00% x FAS1 – 1/3 x 3.00% x \$350 x 12) x Yrs
<i>Safety Tier 2 (§31664.1)</i>	50	(3.00% x FAS3 – 1/3 x 3.00% x \$350 x 12) x Yrs
	55	(3.00% x FAS3 – 1/3 x 3.00% x \$350 x 12) x Yrs
	60 or later	(3.00% x FAS3 – 1/3 x 3.00% x \$350 x 12) x Yrs
<i>Safety Tier 3 (§31664.2)</i>	50	(2.29% x FAS3 – 1/3 x 2.29% x \$350 x 12) x Yrs
	55	(3.00% x FAS3 – 1/3 x 3.00% x \$350 x 12) x Yrs
	60 or later	(3.00% x FAS3 – 1/3 x 3.00% x \$350 x 12) x Yrs

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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	<b>Retirement Age</b>	<b>Benefit Formula</b>
<i>Safety Tier 4 (§7522.25(d))</i>	50	2.00%xFAS3xYrs
	55	2.50%xFAS3xYrs
	57 or later	2.70%xFAS3xYrs
<b>Maximum Benefit:</b>		
<i>Miscellaneous Tier 1, Tier 2, Tier 3 and Tier 4 and Safety Tier 1, Tier 2 and Tier 3</i>		100% of Highest Average Compensation (§31676.14, §31676.1, §31664.1, §31664.2)
<i>Miscellaneous Tier 5 and Safety Tier 4</i>	None	

*Additional Benefit Information:*

- For Miscellaneous members of the following Districts, benefits accrued before June 29, 2003 will continue to be calculated using §31676.1.
  1. Fair Oaks Cemetery District
  2. Galt Arno Cemetery District



**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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**Non-duty Disability:**

Miscellaneous and Safety Tier 1

*Eligibility* Five years of service (§31720).  
*Benefit Formula* 1.5% per year of service for Miscellaneous Tier 1 and 1.8% per year of service for Safety Tier 1. If the benefit does not exceed one-third of Final Compensation, the service is projected to 65 for Miscellaneous Tier 1 and 55 for Safety Tier 1, but the total benefit cannot be more than one-third of Final Compensation (§31727 and §31727.2). The Service Retirement benefit is payable, if greater.

Miscellaneous Tier 2, Tier 3, Tier 4,  
and Tier 5 and Safety Tier 2, Tier 3  
and Tier 4

*Eligibility* Five years of service (§31720).  
*Benefit Formula* 20% of Final Compensation for the first five years of service plus 2% for each year of additional service for a maximum of 40% of Final Compensation (§31727.7). The Service Retirement benefit is payable, if greater.

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**Line-of-Duty Disability:**

All Members

*Eligibility* No age or service requirements (§31720).  
*Benefit Formula* 50% of the Final Compensation or 100% of Service Retirement benefit, if greater (§31727.4).

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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**Pre-Retirement Death:**

All Members

*Eligibility*

No age or service requirements.

*Benefit*

Refund of employee contributions with interest plus one month's compensation for each year of service to a maximum of six month's compensation (§31781).

*Death in Line-of-Duty*

50% of Final Compensation or 100% of Service Retirement benefit, if greater, payable to spouse or minor children (§31787).

OR

Vested Members

*Eligibility*

Five years of service.

*Benefit*

60% of the greater of Service or Non-duty Disability Retirement benefit payable to surviving eligible spouse (§31765.1, §31781.1), in lieu of above.

*Death in Line-of-Duty*

50% of Final compensation or 100% of Service Retirement benefit, if greater, payable to spouse or minor children (§31787).

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**Death After Retirement:**

All Members

*Service Retirement or  
Non-Duty Disability*

60% of member's unmodified allowance continued to eligible spouse (§31760.1). An additional \$4,000 lump sum benefit is payable to member's beneficiary (§31789.3). An eligible spouse is a surviving spouse who was married to the member at least one year prior to the date of retirement (§31760.1).

*Line-of-Duty Disability*

100% of member's allowance continued to eligible spouse (§31786). An additional \$4,000 lump sum benefit is payable to member's beneficiary (§31789.3). An eligible spouse is a surviving spouse who was married to the member at least one year prior to the date of retirement (§31760.1).

## SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System

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### Withdrawal Benefits:

<i>Less than Five Years of Service</i>	Refund of accumulated employee contributions with interest, or earned benefit at age 70 (§31628). Effective January 1, 2003, a member may also elect to leave their contributions on deposit in the retirement fund (§31629.5).
<i>Five or More Years of Service</i>	If contributions left on deposit, entitled to earned benefits commencing at any time after eligible to retire (§31700).

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### Post-retirement

#### Cost-of-Living Benefits:

<i>Miscellaneous and Safety Tier 1</i>	Future changes based on Consumer Price Index to a maximum of 4% per year, excess “banked.” (§31870.3)
<i>Miscellaneous Tier 3, Tier 4 and Tier 5 and Safety Tier 2, Tier 3 and Tier 4</i>	Future changes based on Consumer Price Index to a maximum of 2% per year, excess “banked.” (§31870)

Note: There is no cost-of-living benefit for Miscellaneous Tier 2.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

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<b>Member Contributions:</b>	Please refer to Appendix A for the specific rates.
<i>Miscellaneous Tier 1</i>	
<i>Basic</i>	Provide for an average annuity at age 55 equal to 1/240 of FAS1. (§31621.3)
<i>Cost-of-Living</i>	Provide for one-half of future Cost-of-Living costs.
<i>Miscellaneous Tier 2</i>	
<i>Basic</i>	Provide for an average annuity at age 55 equal to 1/240 of FAS3. (§31621.3)
<i>Cost-of-Living</i>	None.
<i>Miscellaneous Tier 3</i>	
<i>Basic</i>	Provide for an average annuity at age 55 equal to 1/240 of FAS3. (§31621.3)
<i>Cost-of-Living</i>	Provide for one-half of future Cost-of-Living costs.
<i>Miscellaneous Tier 4</i>	
<i>Basic</i>	Provide for an average annuity at age 60 equal to 1/120 of FAS3. (§31621)
<i>Cost-of-Living</i>	Provide for one-half of future Cost-of-Living costs.
<i>Miscellaneous Tier 5</i>	50% of the total Normal Cost rate.
<i>Safety Tier 1, Tier 2 and Tier 3</i>	
<i>Basic</i>	Provide for an average annuity at age 50 equal to 1/100 of FAS1 (FAS3 for Tier 2 and Tier 3). (§31639.25)
<i>Cost-of-Living</i>	Provide for one-half of future Cost-of-Living costs.
<i>Safety Tier 4</i>	50% of the total Normal Cost rate.

*Notes: The above rates are known as full rates. For members paying half rates, their rates should be one-half of the rates provided in this report. Note that effective with the June 30, 2015 valuation, all members are reported as paying at least full-rate. In addition, for members entering the plan on or after January 1, 1975, they pay a rate based on a single entry age (§31621.11 and §31639.26).*

*After we completed the June 30, 2013 valuation, we were informed by SCERS that starting in 2014/2015, most County members in the legacy tiers have agreed to pick up either 1/3, 1/4, or 1/5 of the difference between the employee's then current Normal Cost and 50% of the total normal cost rate. The adjustments required for the employer and employee rates were subsequently provided to the System and the impact of those adjustments are identified in this report.*

#### SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System

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*As those members have agreed to pick up an additional 1/3, 1/4, or 1/5 of the difference in the Normal Cost rate in 2015/2016 and 2016/2017, we have reflected these adjustments in preparing the recommended rates for the June 30, 2014 and June 30, 2015 valuations, respectively.*

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**Other Information:** Safety Tier 1, Tier 2 and Tier 3 members with 30 or more years of service are exempt from paying member contributions. The same applies for Miscellaneous Tier 1, Tier 2, Tier 3 and Tier 4 members hired on or before March 7, 1973.

**NOTE:** *The summary of major plan provisions is designed to outline principal plan benefits as interpreted for purposes of the actuarial valuation. If the System should find the plan summary not in accordance with the actual provisions, the System should alert the actuary so they can both be sure the proper provisions are valued.*

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix A**

**Member Contribution Rates**

Comparison of Member Rate<sup>(1)</sup> from June 30, 2014 and June 30, 2015 Valuation

	June 30, 2015			June 30, 2014			Increase/(Decrease) in Rate	
	Miscellaneous	Basic	COLA	Total	Basic	COLA		Total
Tier 1		3.70%	1.05%	4.75%	3.70%	1.05%	4.75%	0.00%
Tier 2		3.54%	0.00%	3.54%	3.54%	0.00%	3.54%	0.00%
Tier 3		3.54%	1.22%	4.76%	3.54%	1.24%	4.78%	-0.02%
Tier 4		6.12%	1.07%	7.19%	6.12%	1.08%	7.20%	-0.01%
Tier 5		6.75%	1.27%	8.02%	7.04%	1.08%	8.12%	-0.10%
Safety	Basic	COLA	Total	Basic	COLA	Total	Increase/(Decrease) in Rate	
Tier 1	9.92%	5.47%	15.39%	9.92%	5.33%	15.25%	0.14%	
Tier 2	9.43%	2.94%	12.37%	9.43%	2.86%	12.29%	0.08%	
Tier 3	9.43%	2.63%	12.06%	9.43%	2.67%	12.10%	-0.04%	
Tier 4	10.59%	2.52%	13.11%	10.54%	2.57%	13.11%	0.00%	

<sup>(1)</sup> Members who enter on or after 1/1/1975 contribute as indicated above and all others contribute the rate at their respective entry ages.

Note: Contribution rates for most County members in the legacy tiers who have agreed to pick up an additional Normal Cost can be found in Appendix C.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix A**

**Member Contribution Rates (Continued)**

**Miscellaneous Members' Contribution Rates from the June 30, 2015 Actuarial Valuation**

Entry Age	Basic Only						COLA Only						Total					
	First \$350 of Monthly Salary			Salary in Excess of \$350			First \$350 of Monthly Salary			Salary in Excess of \$350			First \$350 of Monthly Salary			Salary in Excess of \$350		
	Tier 1	Tier 2 & Tier 3	Tier 4	Tier 1	Tier 2 & Tier 3	Tier 4	Tier 1	Tier 3	Tier 4	Tier 1	Tier 3	Tier 4	Tier 1	Tier 3	Tier 4	Tier 1	Tier 3	Tier 4
16	1.79%			2.68%			0.51%			0.76%			2.30%					3.44%
17	1.82%			2.73%			0.51%			0.77%			2.33%					3.50%
18	1.85%			2.78%			0.53%			0.79%			2.38%					3.57%
19	1.89%			2.83%			0.53%			0.80%			2.42%					3.63%
20	1.91%			2.87%			0.54%			0.81%			2.45%					3.68%
21	1.95%			2.92%			0.55%			0.83%			2.50%					3.75%
22	1.98%			2.97%			0.56%			0.84%			2.54%					3.81%
23	2.01%			3.02%			0.57%			0.85%			2.58%					3.87%
24	2.05%			3.07%			0.58%			0.87%			2.63%					3.94%
25	2.09%			3.13%			0.59%			0.88%			2.68%					4.01%
26	2.12%			3.18%			0.60%			0.90%			2.72%					4.08%
27	2.15%			3.23%			0.61%			0.91%			2.76%					4.14%
28	2.19%			3.29%			0.62%			0.93%			2.81%					4.22%
29	2.23%			3.34%			0.63%			0.94%			2.86%					4.28%
30	2.27%			3.40%			0.64%			0.96%			2.91%					4.36%
31	2.31%			3.46%			0.65%			0.98%			2.96%					4.44%
32	2.34%			3.51%			0.66%			0.99%			3.00%					4.50%
33	2.38%			3.57%			0.67%			1.01%			3.05%					4.58%
34	2.43%			3.64%			0.69%			1.03%			3.12%					4.67%
35	2.47%	2.36%	4.08%	3.70%	3.54%	6.12%	0.70%	0.81%	0.72%	1.05%	1.22%	1.07%	3.17%	3.17%	4.80%	4.75%	4.76%	7.19%
36	2.51%			3.76%			0.71%			1.06%			3.22%					4.82%
37	2.55%			3.83%			0.72%			1.08%			3.27%					4.91%
38	2.59%			3.89%			0.73%			1.10%			3.32%					4.99%
39	2.64%			3.96%			0.75%			1.12%			3.39%					5.08%
40	2.69%			4.03%			0.76%			1.14%			3.45%					5.17%
41	2.74%			4.11%			0.77%			1.16%			3.51%					5.27%
42	2.79%			4.18%			0.79%			1.18%			3.58%					5.36%
43	2.84%			4.26%			0.80%			1.20%			3.64%					5.46%
44	2.90%			4.35%			0.82%			1.23%			3.72%					5.58%
45	2.96%			4.44%			0.84%			1.26%			3.80%					5.70%
46	3.00%			4.50%			0.85%			1.27%			3.85%					5.77%
47	3.04%			4.56%			0.86%			1.29%			3.90%					5.85%
48	3.08%			4.62%			0.87%			1.31%			3.95%					5.93%
49	3.11%			4.67%			0.88%			1.32%			3.99%					5.99%
50	3.13%			4.70%			0.89%			1.33%			4.02%					6.03%
51	3.15%			4.73%			0.89%			1.34%			4.04%					6.07%

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix A**

**Member Contribution Rates (Continued)**

**Miscellaneous Members' Contribution Rates from the June 30, 2015 Actuarial Valuation**

Entry Age	Basic Only						COLA Only						Total					
	First \$350 of Monthly Salary			Salary in Excess of \$350			First \$350 of Monthly Salary			Salary in Excess of \$350			First \$350 of Monthly Salary			Salary in Excess of \$350		
	Tier 1	Tier 2 & Tier 3	Tier 4	Tier 1	Tier 2 & Tier 3	Tier 4	Tier 1	Tier 3	Tier 4	Tier 1	Tier 3	Tier 4	Tier 1	Tier 3	Tier 4	Tier 1	Tier 3	Tier 4
52	3.16%			4.74%			0.89%			1.34%			4.05%					6.08%
53	3.15%			4.73%			0.89%			1.34%			4.04%					6.07%
54	3.14%			4.71%			0.89%			1.33%			4.03%					6.04%
55	3.14%			4.71%			0.89%			1.33%			4.03%					6.04%
56	3.14%			4.71%			0.89%			1.33%			4.03%					6.04%
57	3.14%			4.71%			0.89%			1.33%			4.03%					6.04%
58	3.14%			4.71%			0.89%			1.33%			4.03%					6.04%
59 & Over	3.14%			4.71%			0.89%			1.33%			4.03%					6.04%

Members who enter prior to 1/1/1975 contribute on the basis of their actual entry age and all others contribute on the basis of a single entry age of 35.

Tier 5		
All Eligible Pay <sup>(1)</sup>		
	Basic Only	COLA Only
All members	6.75%	1.27%
	Total	
	8.02%	

<sup>(1)</sup> It is our understanding that in the determination of pension benefits under the CalPEPRA formulas, the compensation that can be taken into account for 2015 is equal to \$117,020 (reference: Section 7522.10). These amounts should be adjusted for changes to the Consumer Price Index for All Urban Consumers after 2015 (reference: Section 7522.10(d)).



## SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System

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### Appendix A

#### Member Contribution Rates (Continued)

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#### Miscellaneous Members' Contribution Rates from the June 30, 2015 Actuarial Valuation

Interest:	7.50% per annum
COLA:	Tier 1: 3.25%
	Tier 2: 0.00%
	Tier 3: 2.00%
	Tier 4: 2.00%
	Tier 5: 2.00%
Mortality:	RP-2000 Combined Healthy Mortality Table projected with scale BB to 2022 weighted 40% male and 60% female
Salary increase:	Inflation (3.25%) + Across-the-Board Increase (0.25%) + Merit (See Exhibit III).
COLA Loading Factor:	Tier 1 <sup>(2)</sup> : 28.27%
	Tier 3 <sup>(2)</sup> : 34.45%
	Tier 4 <sup>(2)</sup> : 17.55%
	Tier 5: 18.81%

<sup>(2)</sup> Factors have been adjusted to reflect a reserve carried by the Board to reduce part of the COLA contributions.

#### Non-Refundability factor:

Tier 1:	100.00%
Tier 2:	99.89%
Tier 3:	97.82%
Tier 4:	94.20%
Tier 5:	91.32%

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix A  
Member Contribution Rates (Continued)**

**Safety Members' Contribution Rates from the June 30, 2015 Actuarial Valuation**

Entry Age	Basic Only			COLA Only						Total						
	First \$350 of Monthly Salary		Salary in Excess of \$350	First \$350 of Monthly Salary			Salary in Excess of \$350			First \$350 of Monthly Salary		Salary in Excess of \$350				
	Tier 1	Tier 2 & Tier 3	Tier 1	Tier 2 & Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3
18	5.75%		8.62%		3.17%			4.75%			8.92%			13.37%		
19	5.82%		8.73%		3.21%			4.81%			9.03%			13.54%		
20	5.89%		8.84%		3.25%			4.87%			9.14%			13.71%		
21	5.97%		8.95%		3.29%			4.93%			9.26%			13.88%		
22	6.04%		9.06%		3.33%			4.99%			9.37%			14.05%		
23	6.12%		9.18%		3.37%			5.06%			9.49%			14.24%		
24	6.20%		9.30%		3.42%			5.13%			9.62%			14.43%		
25	6.27%		9.41%		3.46%			5.19%			9.73%			14.60%		
26	6.36%		9.54%		3.51%			5.26%			9.87%			14.80%		
27	6.44%		9.66%		3.55%			5.32%			9.99%			14.98%		
28	6.53%		9.79%		3.60%			5.40%			10.13%			15.19%		
29	6.61%	6.29%	9.92%	9.43%	3.65%	1.96%	1.75%	5.47%	2.94%	2.63%	10.26%	8.25%	8.04%	15.39%	12.37%	12.06%
30	6.70%		10.05%		3.69%			5.54%			10.39%			15.59%		
31	6.79%		10.18%		3.74%			5.61%			10.53%			15.79%		
32	6.88%		10.32%		3.79%			5.69%			10.67%			16.01%		
33	6.98%		10.47%		3.85%			5.77%			10.83%			16.24%		
34	7.08%		10.62%		3.90%			5.85%			10.98%			16.47%		
35	7.19%		10.78%		3.96%			5.94%			11.15%			16.72%		
36	7.29%		10.94%		4.02%			6.03%			11.31%			16.97%		
37	7.41%		11.11%		4.08%			6.12%			11.49%			17.23%		
38	7.53%		11.30%		4.15%			6.23%			11.68%			17.53%		
39	7.67%		11.50%		4.23%			6.34%			11.90%			17.84%		
40	7.79%		11.69%		4.29%			6.44%			12.08%			18.13%		
41	7.87%		11.81%		4.34%			6.51%			12.21%			18.32%		
42	7.95%		11.93%		4.39%			6.58%			12.34%			18.51%		
43	8.03%		12.04%		4.43%			6.64%			12.46%			18.68%		
44	8.09%		12.14%		4.46%			6.69%			12.55%			18.83%		
45	8.14%		12.21%		4.49%			6.73%			12.63%			18.94%		
46	8.14%		12.21%		4.49%			6.73%			12.63%			18.94%		
47	8.09%		12.14%		4.46%			6.69%			12.55%			18.83%		
48	7.99%		11.99%		4.41%			6.61%			12.40%			18.60%		
49 & Over	7.85%		11.78%		4.33%			6.49%			12.18%			18.27%		

*Members who enter prior to 1/1/1975 contribute on the basis of their actual entry age and all others contribute on the basis of a single entry age of 29.*

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix A**

**Member Contribution Rates (Continued)**

**Safety Members' Contribution Rates from the June 30, 2015 Actuarial Valuation**

	Tier 4		
	All Eligible Pay <sup>(1)</sup>		
	Basic Only	COLA Only	Total
All members	10.59%	2.52%	13.11%

<sup>(1)</sup> It is our understanding that in the determination of pension benefits under the CalPEPRA formulas, the compensation that can be taken into account for 2015 is equal to \$117,020 (reference: Section 7522.10). These amounts should be adjusted for changes to the Consumer Price Index for All Urban Consumers after 2015 (reference: Section 7522.10(d)).

Interest:	7.50% per annum	
COLA:	Tier 1:	3.25%
	Tier 2:	2.00%
	Tier 3:	2.00%
	Tier 4:	2.00%
Mortality:	RP-2000 Combined Healthy Mortality Table projected with scale BB to 2022 set back one year for males and set forward two years for females weighted 70% male and 30% female	
Salary increase:	Inflation (3.25%) + Across-the-Board Increase (0.25%) + Merit (See Exhibit III).	
COLA Loading Factor:	Tier 1 <sup>(2)</sup> :	55.12%
	Tier 2 <sup>(2)</sup> :	31.22%
	Tier 3 <sup>(2)</sup> :	27.86%
	Tier 4:	23.80%

<sup>(2)</sup> Factors have been adjusted to reflect a reserve carried by the Board to reduce part of the COLA contributions.

Non-Refundability factor:

Tier 1:	99.98%
Tier 2:	99.33%
Tier 3:	98.20%
Tier 4:	96.93%

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix B**

**UAAL Amortization Schedule as of June 30, 2015 (Dollar Amounts in Thousands)**

	<b>Date Established</b>	<b>Source</b>	<b>Initial Amount</b>	<b>Outstanding Balance</b>	<b>Years Remaining</b>	<b>Annual Payment</b>
<b>Miscellaneous</b>	June 30, 2012	Restart amortization	\$814,400	\$824,790	20	\$60,036
	June 30, 2013	Actuarial loss	34,060	33,953	18	2,656
	June 30, 2014	Actuarial gain	(125,182)	(125,151)	19	(9,431)
	June 30, 2014	Assumption changes	(46,607)	(46,595)	19	(3,511)
	June 30, 2015	Actuarial gain	(73,919)	(73,919)	20	(5,381)
	June 30, 2015	Withdrawn employers	2,989	<u>2,989</u>	20	<u>218</u>
<b>Subtotal</b>				<u>\$616,067</u>		<u>\$44,587</u>
<b>Safety</b>	June 30, 2010	LEMA	\$4,047	\$2,643	5	\$592
	June 30, 2012	Restart amortization	493,928	500,229	20	36,412
	June 30, 2013	Actuarial loss	53,174	53,007	18	4,146
	June 30, 2013	DSA Retirement Incentive	6,134	4,091	3	1,472
	June 30, 2014	Actuarial gain	(40,247)	(40,237)	19	(3,032)
	June 30, 2014	Assumption changes	62,388	62,373	19	4,700
	June 30, 2015	Actuarial gain	(8,318)	<u>(8,318)</u>	20	<u>(605)</u>
<b>Subtotal</b>				<u>\$573,788</u>		<u>\$43,685</u>
<b>Grand Total</b>				<u>\$1,189,855</u>		<u>\$88,272</u>

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix C**

**Normal Cost Rates with Additional Member Pick-ups**

**Total Normal Cost Contribution Rates**  
(For the County and Elected Officials Only)  
Employer and Member Normal Cost Rates

*(A) Normal Cost (Prior to any Pick Up of Additional Normal Cost by the Member)*

	<b>Miscellaneous</b>				
	Percent of Payroll Member Paying Full Rate				Percent of Payroll Member Paying Half Rate
	<u>Tier 1*</u>	<u>Tier 2</u>	<u>Tier 3</u>	<u>Tier 4</u>	
Employer	11.92%	10.59%	13.76%	9.75%	Not Applicable
Member	4.75%	3.54%	4.76%	7.19%	
Member COLA Buydown	1.39%	0.00%	0.34%	0.35%	
<b>Total</b>	<b>18.06%</b>	<b>14.13%</b>	<b>18.86%</b>	<b>17.29%</b>	

	<b>Safety</b>			
	Percent of Payroll Member Paying Full Rate			Percent of Payroll Member Paying Half Rate
	<u>Tier 1*</u>	<u>Tier 2</u>	<u>Tier 3</u>	
Employer	22.27%	20.09%	18.45%	Not Applicable
Member	15.39%	12.37%	12.06%	
Member COLA Buydown	1.97%	0.36%	0.35%	
<b>Total</b>	<b>39.63%</b>	<b>32.82%</b>	<b>30.86%</b>	

Note: Member rates shown are for annual salary in excess of \$4,200 (or monthly salary of \$350). For annual salary less than \$4,200 (or monthly salary of \$350), the member rates are equal to 2/3 of the rates shown. Also, the member COLA buydown is a non-cash contribution item.

\* These are the single entry age rates at age 35 and 29 for Miscellaneous and Safety, respectively.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix C**

**Normal Cost Rates with Additional Member Pick-ups (continued)**

**Total Normal Cost Contribution Rates**  
 (For the County and Elected Officials Only)  
 Employer and Member Normal Cost Rates

*(B) Normal Cost (Assuming Exactly 50:50 Payment by the Employer and the Member)*

	<b>Miscellaneous</b>				Percent of Payroll Member Paying Half Rate
	Percent of Payroll Member Paying Full Rate				
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>	<u>Tier 4</u>	
Employer	9.03%	7.07%	9.48%	8.69%	Not Applicable
Member	7.74%	7.07%	9.16%	8.37%	
Member COLA Buydown	1.29%	0.00%	0.32%	0.32%	
<b>Total</b>	<b>18.06%</b>	<b>14.14%</b>	<b>18.96%</b>	<b>17.38%</b>	

	<b>Safety</b>			Percent of Payroll Member Paying Half Rate
	Percent of Payroll Member Paying Full Rate			
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>	
Employer	19.82%	16.43%	15.46%	Not Applicable
Member	18.31%	16.10%	15.13%	
Member COLA Buydown	1.51%	0.33%	0.33%	
<b>Total</b>	<b>39.64%</b>	<b>32.86%</b>	<b>30.92%</b>	

Note: Member rates shown are for annual salary in excess of \$4,200 (or monthly salary of \$350). For annual salary less than \$4,200 (or monthly salary of \$350), the member rates are equal to 2/3 of the rates shown. Also, the member COLA buydown is a non-cash contribution item.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix C**

**Normal Cost Rates with Additional Member Pick-ups (continued) – REVISED**

**Total Normal Cost Contribution Rates**  
 (For the County and Elected Officials Only)  
 Employer and Member Normal Cost Rates

*(C) Normal Cost (Assuming Phase-in to 50:50 Payment by the Employer and the Member)*

*G15A – Assuming Member Picks Up a Total of 4/5 of the Difference between (A) and (B) for 2016/2017*

	<b>Miscellaneous</b>				Percent of Payroll Member Paying Half Rate
	Percent of Payroll Member Paying Full Rate				
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>	<u>Tier 4</u>	
Employer	9.61%	7.77%	10.34%	8.90%	Not Applicable
Member	7.14%	6.36%	8.28%	8.13%	
Member COLA Buydown	1.31%	0.00%	0.32%	0.33%	
Total	18.06%	14.13%	18.94%	17.36%	

	<b>Safety</b>			Percent of Payroll Member Paying Half Rate
	Percent of Payroll Member Paying Full Rate			
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>	
Employer	20.31%	17.16%	16.06%	Not Applicable
Member	17.73%	15.35%	14.52%	
Member COLA Buydown	1.60%	0.34%	0.33%	
Total	39.64%	32.85%	30.91%	

Note: Member rates shown are for annual salary in excess of \$4,200 (or monthly salary of \$350). For annual salary less than \$4,200 (or monthly salary of \$350), the member rates are equal to 2/3 of the rates shown. Also, the member COLA buydown is a non-cash contribution item.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix C**

**Normal Cost Rates with Additional Member Pick-ups (continued)**

**Total Normal Cost Contribution Rates**  
 (For the County and Elected Officials Only)  
 Employer and Member Normal Cost Rates

*G14A – Assuming Member Picks Up a Total of 3/4 of the Difference between (A) and (B) for 2016/2017*

	<b>Miscellaneous</b>				Percent of Payroll Member Paying Half Rate
	Percent of Payroll Member Paying Full Rate				
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>	<u>Tier 4</u>	
Employer	9.75%	7.95%	10.55%	8.96%	Not Applicable
Member	6.99%	6.19%	8.06%	8.08%	
Member COLA Buydown	1.32%	0.00%	0.33%	0.33%	
<b>Total</b>	<b>18.06%</b>	<b>14.14%</b>	<b>18.94%</b>	<b>17.37%</b>	

	<b>Safety</b>			Percent of Payroll Member Paying Half Rate
	Percent of Payroll Member Paying Full Rate			
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>	
Employer	20.43%	17.35%	16.21%	Not Applicable
Member	17.58%	15.17%	14.36%	
Member COLA Buydown	1.63%	0.34%	0.34%	
<b>Total</b>	<b>39.64%</b>	<b>32.86%</b>	<b>30.91%</b>	

Note: Member rates shown are for annual salary in excess of \$4,200 (or monthly salary of \$350). For annual salary less than \$4,200 (or monthly salary of \$350), the member rates are equal to 2/3 of the rates shown. Also, the member COLA buydown is a non-cash contribution item.



**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix C**

**Normal Cost Rates with Additional Member Pick-ups (continued)**

**Total Normal Cost Contribution Rates**  
 (For the County and Elected Officials Only)  
 Employer and Member Normal Cost Rates

*G13A – Assuming Member Picks Up a Total of 3/3 of the Difference between (A) and (B) for 2016/2017*

	<b>Miscellaneous</b>				
	Percent of Payroll Member Paying Full Rate				Percent of Payroll Member Paying Half Rate
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>	<u>Tier 4</u>	
Employer	9.03%	7.07%	9.48%	8.69%	Not Applicable
Member	7.74%	7.07%	9.16%	8.37%	
Member COLA Buydown	1.29%	0.00%	0.32%	0.32%	
Total	18.06%	14.14%	18.96%	17.38%	

	<b>Safety</b>			
	Percent of Payroll Member Paying Full Rate			Percent of Payroll Member Paying Half Rate
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>	
Employer	19.82%	16.43%	15.46%	Not Applicable
Member	18.31%	16.10%	15.13%	
Member COLA Buydown	1.51%	0.33%	0.33%	
Total	39.64%	32.86%	30.92%	

Note: Member rates shown are for annual salary in excess of \$4,200 (or monthly salary of \$350). For annual salary less than \$4,200 (or monthly salary of \$350), the member rates are equal to 2/3 of the rates shown. Also, the member COLA buydown is a non-cash contribution item.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix C**

**Normal Cost Rates with Additional Member Pick-ups (continued)**

**Total Normal Cost Contribution Rates**  
 (For the County and Elected Officials Only)  
 Employer and Member Normal Cost Rates

*G13B – Assuming Member Picks Up a Total of 2/3 of the Difference between (A) and (B) for 2016/2017*

		<b>Miscellaneous</b>				
		Percent of Payroll Member Paying Full Rate				Percent of Payroll Member Paying Half Rate
		<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>	<u>Tier 4</u>	
Employer		9.99%	8.24%	10.91%	9.04%	Not Applicable
Member		6.74%	5.89%	7.69%	7.98%	
Member COLA Buydown		1.32%	0.00%	0.33%	0.33%	
Total		18.05%	14.13%	18.93%	17.35%	
<b>Safety</b>						
		Percent of Payroll Member Paying Full Rate				
		<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>		
Employer		20.64%	17.65%	16.46%	Not Applicable	
Member		17.34%	14.86%	14.11%		
Member COLA Buydown		1.66%	0.34%	0.34%		
Total		39.64%	32.85%	30.91%		

Note: Member rates shown are for annual salary in excess of \$4,200 (or monthly salary of \$350). For annual salary less than \$4,200 (or monthly salary of \$350), the member rates are equal to 2/3 of the rates shown. Also, the member COLA buydown is a non-cash contribution item.

**SECTION 4: Reporting Information for the Sacramento County Employees' Retirement System**

**Appendix C**

**Normal Cost Rates with Additional Member Pick-ups (continued)**

**Total Normal Cost Contribution Rates**  
 (For the County and Elected Officials Only)  
 Employer and Member Normal Cost Rates

*Rep Unit #26 – Assuming Member Picks Up a Total of 3%<sup>(1)</sup> for 2016/2017*

	<b>Miscellaneous</b>				Percent of Payroll Member Paying Half Rate
	Percent of Payroll Member Paying Full Rate				
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>	<u>Tier 4</u>	
Employer	9.03%	7.59%	10.83%	8.69%	Not Applicable
Member	7.74%	6.54%	7.76%	8.37%	
Member COLA Buydown	1.29%	0.00%	0.34%	0.32%	
<b>Total</b>	<b>18.06%</b>	<b>14.13%</b>	<b>18.93%</b>	<b>17.38%</b>	

	<b>Safety</b>	
	Percent of Payroll Member Paying Full Rate	Percent of Payroll Member Paying Half Rate
Employer	Not Applicable	Not Applicable
Member		
Member COLA Buydown		
<b>Total</b>		

Note: Member rates shown are for annual salary in excess of \$4,200 (or monthly salary of \$350). For annual salary less than \$4,200 (or monthly salary of \$350), the member rates are equal to 2/3 of the rates shown. Also, the member COLA buydown is a non-cash contribution item.

<sup>(1)</sup> For members in Miscellaneous Tiers 1 and 4, we have limited the increase in the employee rates to be no greater than what they would have to pay assuming exactly 50:50 payment of the Normal Cost by the employer and the member.

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