



State & Schools Actuarial Valuation

As of June 30, 2010

Establishing Required Contributions

for the Fiscal Year

July 1, 2011 through June 30, 2012

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

**State & Schools
Actuarial Valuation
as of June 30, 2010**

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Actuarial Certification

To the best of our knowledge, this report is complete and accurate and contains sufficient information to fully and fairly disclose the funded condition of the CalPERS' State and Schools plans. This valuation is based on the member and financial data as of June 30, 2010, provided by the various CalPERS databases, and the benefit plans as outlined in Appendix B. It is our opinion that the valuation has been performed in accordance with generally accepted actuarial principles, in accordance with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for these plans, as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.



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HIGHLIGHTS AND EXECUTIVE SUMMARY

- PURPOSE OF THE REPORT
- INTRODUCTION
- EMPLOYER REQUIRED CONTRIBUTION RATES
- EXPECTED FUTURE CHANGES
- HISTORY OF THE EXPECTED CONTRIBUTION REQUIREMENTS
- FUNDED STATUS OF THE PLANS
- CHANGES SINCE THE PRIOR VALUATION
- SUBSEQUENT EVENTS

Introduction

This is the actuarial valuation report as of June 30, 2010 for the State and Schools plans. This actuarial valuation was used to set the 2011-2012 required employer contribution rates. The rates set for the 2011-2012 fiscal year reflect a 13% investment return and the second year of the temporary smoothing set in place to phase in the -24% investment return from the 2008-2009 fiscal year.

In the 2010-2011 fiscal year negotiations took place between the State and employee labor groups. Those negotiations resulted in an increase in member retirement contributions for all State employees with the exception of California State University (CSU) employees. For all State plans, new state employees hired on or after January 15, 2011 (with no prior state service) are subject to lower retirement formulas and benefits based on highest average annual compensation during a consecutive 36 month period. This valuation does not reflect the lower benefits being provided to new hires. The June 30, 2011 valuation will be the first valuation where these new lower benefits will be reflected. A summary of benefits is available in Appendix B.

Purpose of the Report

This actuarial valuation of the State and Schools plans of the California Public Employees' Retirement System (CalPERS) was performed by CalPERS' staff actuaries using data as of June 30, 2010 in order to:

- set forth the actuarial assets and funding liabilities of these plans as of June 30, 2010;
- establish the actuarially required contribution rates of these plans for the fiscal year July 1, 2011 through June 30, 2012;
- provide actuarial information as of June 30, 2010 to the CalPERS Board of Administration and other interested parties; and
- provide pension information as of June 30, 2010 to be used in financial reports subject to Governmental Accounting Standards Board Statement Number 27.

Use of this report for other purposes may be inappropriate. Numbers in this report may not add up due to rounding.

Employer Required Contribution Rates

The actuarially required employer contribution rates for the fiscal year July 1, 2011 through June 30, 2012 are shown below. For comparison purposes, the corresponding contributions for fiscal year July 1, 2010 through June 30, 2011 are also provided. The expected contribution amounts these rates are/were expected to generate are also shown.

| | 2010-2011 Fiscal Year ¹ | | 2011-2012 Fiscal Year | |
|-------------------------------------|------------------------------------|------------------------|--------------------------------|------------------------|
| | Expected Employer Contribution | Required Employer Rate | Expected Employer Contribution | Required Employer Rate |
| State Miscellaneous Tier 1 | \$2,005,386,799 | 19.922% | \$1,841,648,485 | 18.175% |
| State Miscellaneous Tier 2 | 78,295,146 | 19.622% | 65,054,003 | 17.025% |
| State Industrial | 104,337,234 | 18.183% | 91,966,115 | 14.934% |
| State Safety | 423,342,840 | 20.672% | 329,227,399 | 16.428% |
| State Peace Officers & Firefighters | 1,037,586,121 | 28.887% | 947,128,065 | 27.415% |
| California Highway Patrol | 239,330,261 | 32.625% | 239,927,089 | 31.264% |
| Subtotal State | \$3,888,278,401 | | \$3,514,951,156 | |
| Schools | 1,189,482,769 | 10.707% | 1,232,486,937 | 10.923% |
| Total | \$5,077,761,170 | | \$4,747,438,093 | |

A request was made for separate rates to be calculated for California State University (CSU) employees. CSU employees participate in both the State Miscellaneous Plan and the POFF plan. There is no mandate requiring separate rates for these groups of employees, and the rates adopted by the CalPERS Board are common for both groups. However, separate rates have been calculated for informational purposes as set forth in Appendix D.

The supporting exhibits in this report entitled “Reconciliation of Employer Contribution Rates” on page 36 and “Reconciliation of Employer Contributions” on page 38 provide explanations of the changes in required contribution rates and expected contribution amounts from the 2010-2011 fiscal year to the 2011-2012 fiscal year.

A history of the required contribution rates is included on page 40 of this report.

Reasons for Change in Employer Contributions for the State Plans

At its August 2010 meeting, the CalPERS Board approved a policy that prescribes changes in retirement benefits and member contribution rates being reflected in the employer contribution rates for the State plans immediately upon the effective date of the changes or as soon thereafter as can be accomplished given the Board’s meeting schedule.

This change in policy resulted in the Board adopting new contribution rates for the State plans mid-way through the 2010-2011 fiscal year to reflect agreements between the State and various employee unions that specified higher member contributions for all affected employees. In December 2010, the

¹ The employer contribution rates and expected employer contribution for 2010-2011 reflect the rates set in the June 30, 2009 annual valuation. They do not reflect the increase in member contributions which resulted in decreased employer contributions.

CalPERS Board adopted new employer contribution rates effective January 1, 2011 that reflected these higher member contributions.

The table below compares the employer contribution rates that were adopted by the Board in June 2010 to those adopted in December 2010 that reflected the higher member contributions as well as the expected employer contribution for the 2010-2011 fiscal year resulting from these contribution rates.

| | Employer Contribution Rate for Pay Periods Between July 1, 2010 and December 31, 2010 | Employer Contribution Rate for Pay Periods Between January 1, 2011 and June 30, 2011 | Expected Employer Contribution for 2010-2011 Fiscal Year |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| State Miscellaneous Tier 1 | 19.922% | 17.528% | \$1,884,848,488 |
| State Miscellaneous Tier 2 | 19.622% | 16.442% | 71,948,991 |
| State Industrial | 18.183% | 14.683% | 94,295,741 |
| State Safety | 20.672% | 15.702% | 372,459,168 |
| State Police Officers & Firefighters | 28.887% | 28.556% | 1,031,624,346 |
| California Highway Patrol | 32.625% | 29.956% | 229,538,369 |
| Subtotal State | | | \$3,684,715,103 |
| Schools | 10.707% | 10.707% | \$1,189,482,769 |
| Total | | | \$4,874,197,872 |

It is important to note that the employer rates effective January 2011 would have been greater but eight to nine months of savings were concentrated into the final six months of the current fiscal year.

By June 2011, additional employee unions reached agreements with the State, causing further increases to member contribution rates. Overall, the increase in member contributions varies between 2% and 5% of payroll.

The table below outlines the changes in rates and total dollar amount for the various State Plans as a result of the agreements ratified. For comparison purposes, it also includes the employer contribution rates had none of the increases in member contributions taken place.

| | Without Increase in Member Contribution | | With Increase in Member Contributions | |
|--------------------------------------|-----------------------------------------|---------------|---------------------------------------|----------------------|
| | Employer Contribution | Employer Rate | Employer Contribution | Employer Rate |
| State Miscellaneous Tier 1 | \$2,051,672,059 | 20.248% | \$1,841,648,485 | 18.175% |
| State Miscellaneous Tier 2 | 76,008,928 | 19.892% | 65,054,003 | 17.025% ² |
| State Industrial | 109,976,335 | 17.859% | 91,966,115 | 14.934% |
| State Safety | 403,405,677 | 20.129% | 329,227,399 | 16.428% |
| State Police Officers & Firefighters | 1,026,639,409 | 29.717% | 947,128,065 | 27.415% |
| California Highway Patrol | 253,954,443 | 33.092% | 239,927,089 | 31.264% |
| Subtotal State | \$3,921,656,851 | | \$3,514,951,156 | |
| Schools | 1,232,486,937 | 10.923% | 1,232,486,937 | 10.923% |
| Total | \$5,154,143,788 | | \$4,747,438,093 | |

In order to adjust the employer contribution rates to reflect the higher member contributions, CalPERS staff obtained information from the Department of Personnel Administration (DPA) on each Bargaining Unit's actual ratified agreements and on the size of each group affected by the increases in member contribution rate.

Considering all agreements between the State and employee unions, the required contribution for the State plans will decrease by \$169.8 million. The decrease in expected contributions is mainly driven by the increase in member contributions. In reconciling the change to expected contributions, if one ignores the increases in member contribution, then the State plans are experiencing an increase in contribution of \$33.4 million due to plan experience. This includes \$95.5 million due to the asset loss experienced in 2008-2009 that is being phased in by the temporary rate smoothing methods adopted by the Board in December of 2009. The reasons for the changes in employer contributions for the State between fiscal year 2010-2011 and fiscal year 2011-12 are shown below.

| <u>Reason for Change</u> | <u>Change in Required Contribution (millions)</u> |
|-----------------------------------------------------------------------------------------|---------------------------------------------------|
| Increase due to growth in payroll and normal progression of existing amortization bases | \$31.9 |
| Actuarial gains and losses: | |

² Note that even though State Miscellaneous Tier 2 members do not have member contributions, the employer contribution rate still needs to be adjusted to account for the fact that State Miscellaneous and State Industrial Tier 2 members have the right to convert their Tier 2 service to Tier 1 any time prior to retirement.

| | |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------|
| • Impact of the second year of smoothing the -24% investment return from fiscal year 2008-2009 | 95.5 |
| • Lower than expected individual salary increases and overall payroll increases less than expected in fiscal year 2009-2010 | (101.3) |
| • Greater than expected number of retirements in fiscal year 2009-2010 | 54.2 |
| • Less than expected contributions received in fiscal year 2009-2010 | 19.7 |
| • Experience for Retirees in fiscal year 2009-2010 including Cost-of-Living Increases less than expected | (25.6) |
| • Other Gains and Losses | (41.0) |
| - Impact of reflecting a full year of additional member contributions for agreements that were in effect in December 2010 ³ | (106.2) |
| - Impact of additional member contribution for agreements ratified in May 2011 | (97.0) |
| Total Change in Required Contributions | (\$169.8) |

Reasons for Change in Employer Contributions for the Schools Pool

The required contributions for the Schools pool are increasing by \$43.0 million from \$1.189 billion in fiscal year 2010-2011 to \$1.232 billion in fiscal year 2011-2012. The main reasons for the increase includes the second year of recognizing asset losses from 2008-2009 offset by a combination of payroll increases less than expected, cost of living adjustments less than expected and higher than expected number of retirements. About \$48.7 million of the Schools pool contribution is caused from phasing in the large asset loss experienced in 2008-2009 through the temporary smoothing methods.

³ The rates set beginning January 1, 2011 reflected eight to nine months of additional member contributions. The rates for 2011-2012 reflect twelve months of additional member contributions

Expected Future Changes

In July 2011, the investment return for fiscal year 2010-2011 was announced to be 20.7%. Note that this return is before administrative expenses and also does not reflect final investment return information for real estate and private equities. The final return information for these two asset classes will be available later in October. The preliminary 20.7% return for the 2010-2011 fiscal year is good news as it would help reduce the impact of the -24% return in 2008-2009 and the impact of the three year phase in adopted by the Board in December 2009. For purposes of projecting future employer rates, we are assuming a 20% investment return for fiscal year 2010-2011.

Below is a table showing the estimated 2012-2013 employer rates for the State plans and the Schools pool based on a 20% investment return for fiscal year 2010-2011. Note that the projected rates assume that all other actuarial assumptions will be realized and that no changes to either member contributions or benefits will occur between now and the beginning of fiscal year 2012-2013.

| | Estimated 2012-2013 Employer Rates Assuming an 20% Investment Return for 2010-2011 |
|--------------------------------------|-------------------------------------------------------------------------------------------|
| State Miscellaneous Tier 1 | 18.5% |
| State Miscellaneous Tier 2 | 17.4% |
| State Industrial | 15.1% |
| State Safety | 16.5% |
| State Police Officers & Firefighters | 27.7% |
| California Highway Patrol | 31.7% |
| Schools | 11.2% |

A sensitivity analysis was performed to determine the effects of various investment returns on future employer contribution rates for 3 years beyond the estimated 2012-2013 employer rates shown above. That information is available in Appendix C. Note that investment returns below the assumed rate of return of 7.75% result in increasing employer contribution rates, but investment returns above 7.75% result in only slight decreases in employer contribution rates. The greater sensitivity to lower returns is due to the lingering effects of the 2008-2009 investment losses.

History of the Expected Contribution Requirements

The following table shows the history of the employer contributions set by CalPERS based on projected payroll for the State plans and the Schools pool going back to fiscal year 1996-1997.

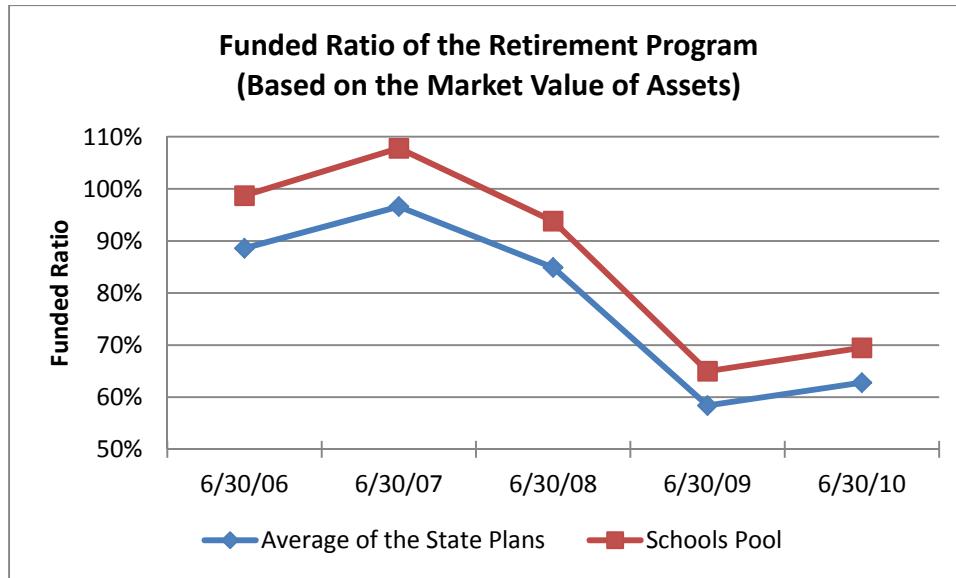
| Fiscal Year | Total State Contributions | Total School Contributions |
|----------------------|----------------------------------|-----------------------------------|
| 1996-97 | \$1,236,447,373 | \$ 416,694,314 |
| 1997-98 | 1,223,327,746 | 317,571,853 |
| 1998-99 | 766,067,149 | 0 |
| 1999-00 | 159,460,097 | 0 |
| 2000-01 | 156,722,747 | 0 |
| 2001-02 | 677,244,769 | 0 |
| 2002-03 | 1,189,559,722 | 228,972,653 |
| 2003-04 | 2,212,518,481 | 869,501,830 |
| 2004-05 | 2,547,364,178 | 903,570,002 |
| 2005-06 | 2,428,720,628 | 826,672,339 |
| 2006-07 | 2,665,262,125 | 841,504,282 |
| 2007-08 | 2,746,929,250 | 919,528,538 |
| 2008-09 | 3,025,181,372 | 966,316,743 |
| 2009-10 | 3,287,572,458 | 1,081,377,863 |
| 2010-11 ⁴ | 3,684,715,103 | 1,189,482,769 |
| 2011-12 | \$3,514,951,156 | \$1,232,486,937 |

Funded Status of the Plans

We are monitoring the funded status of the State plans and Schools pool using the market value of assets since this is a better measure of the plans' ability to pay benefits.

As a result of the 14% investment return experienced by CalPERS in fiscal year 2009-2010 versus the assumed 7.75%, the funded status has increased by about 3.5% to 7% for all plans. The graph below shows the average funded status for the State plans and for the Schools pool, based on the market value of assets, for the last five years.

⁴ The State employer contributions for 2010-11 differ from the expected employer contribution of \$3,888,278,401 determined by the June 30, 2009 annual valuation due to additional member contributions which resulted in lower expected employer contributions.



The table below shows the funded status of the plans using the market value of assets on June 30, 2010.

Funded Status and Unfunded Liability on June 30, 2010

| Plan | Entry Age Normal Accrued Liability | Market Value of Assets | Unfunded Liability | Funded Ratio |
|---------------------------------------|------------------------------------|-------------------------|-------------------------|--------------|
| State Miscellaneous | \$76,980,432,507 | \$48,645,908,066 | \$ 28,334,524,441 | 63.2% |
| State Industrial | 2,614,478,114 | 1,784,901,351 | 829,576,763 | 68.3% |
| State Safety | 6,435,647,069 | 4,196,169,119 | 2,239,477,950 | 65.2% |
| State Peace Officers and Firefighters | 27,711,534,817 | 17,199,098,812 | 10,512,436,005 | 62.1% |
| California Highway Patrol | 7,703,863,633 | 4,439,496,887 | 3,264,366,746 | 57.6% |
| Total for the State | \$121,445,956,140 | \$76,265,574,235 | \$45,180,381,905 | 62.8% |
| Schools | \$55,306,963,638 | \$38,435,174,651 | \$16,871,788,987 | 69.5% |

The table below shows the funded status for each of the plans for the last five years.

| Funded Ratio of the Retirement Program (Based on the Market Value of Assets) | | | | | |
|-----------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | June 30, 2006 | June 30, 2007 | June 30, 2008 | June 30, 2009 | June 30, 2010 |
| State Miscellaneous | 89.8% | 98.6% | 86.1% | 59.0% | 63.2% |
| State Industrial | 95.0% | 103.7% | 91.0% | 63.1% | 68.3% |
| State Safety | 89.2% | 97.2% | 84.8% | 58.5% | 65.2% |
| State Police Officers & Firefighters | 86.0% | 92.3% | 82.2% | 57.4% | 62.1% |
| California Highway Patrol | 81.5% | 88.8% | 79.3% | 53.9% | 57.6% |
| Total State | 88.6% | 96.6% | 84.9% | 58.4% | 62.8% |
| Schools | 98.7% | 107.8% | 93.8% | 65.0% | 69.5% |

Changes Since the Prior Valuation

ACTUARIAL ASSUMPTIONS

There were no changes in the actuarial assumptions. Appendix A contains a listing of assumptions.

METHODS

There were no changes in methods since the prior valuation.

PLAN PROVISIONS

There was one change in plan provisions from the prior valuation described below:

- Member contribution rates increased for most State employees as a result of agreements made between the State and employee groups. Appendix B contains a summary of those changes.

Subsequent Events

BENEFIT CHANGES

For all State plans, new state employees hired on or after January 15, 2011 (with no prior state service) are subject to lower retirement formulas and benefits based on highest average annual compensation during a consecutive 36 month period. The June 30, 2011 valuation will be the first valuation where these lower benefits for new hires will be reflected. A summary of benefits is available in Appendix B.

Liabilities and Rates

- COMPARISON OF CURRENT AND PRIOR YEAR
- DEVELOPMENT OF ACCRUED AND UNFUNDED LIABILITIES
- DEVELOPMENT OF EMPLOYER CONTRIBUTION RATES
- SCHEDULE OF AMORTIZATION BASES FOR THE RETIREMENT PROGRAM
- GAIN/LOSS ANALYSIS
- DEVELOPMENT OF GROUP TERM LIFE INSURANCE CONTRIBUTIONS
- RECONCILIATION OF EMPLOYER CONTRIBUTION RATES
- RECONCILIATION OF EMPLOYER CONTRIBUTIONS
- EMPLOYER CONTRIBUTION RATE HISTORY
- HISTORY OF FUNDED STATUS AND FUNDING PROGRESS

Comparison of Current and Prior Year

Shown below are the key valuation results for the current valuation compared to the corresponding results from the prior valuation.

STATE MISCELLANEOUS

Participant Information

| | June 30, 2009 | June 30, 2010 |
|------------------------------------------------|-------------------|-------------------|
| Members Included in the Valuation ¹ | | |
| Active Members Tier 1 | 151,547 | 151,631 |
| Active Members Tier 2 | 8,090 | 7,674 |
| Subtotal Active Members | 159,637 | 159,305 |
| Transfers from Tier 1 | 22,201 | 21,163 |
| Transfers from Tier 2 | 12,434 | 11,881 |
| Subtotal Transfers | 34,635 | 33,044 |
| Vested Terminations Tier 1 | 40,408 | 41,164 |
| Vested Terminations Tier 2 | 1,681 | 1,694 |
| Subtotal Vested Terminations ² | 42,089 | 42,858 |
| Receiving Payments Tier 1 | 149,283 | 154,540 |
| Receiving Payments Tier 2 | 4,229 | 4,362 |
| Subtotal Receiving Payments | 153,512 | 158,902 |
| Subtotal Tier 1 | 363,439 | 368,498 |
| Subtotal Tier 2 | 26,434 | 25,611 |
| Grand Total | 389,873 | 394,109 |
| Average Entry Age of Active Members Tier 1 | 34.7 | 34.8 |
| Average Entry Age of Active Members Tier 2 | 32.5 | 32.4 |
| Average Age of Active Members Tier 1 | 47.9 | 48.0 |
| Average Age of Active Members Tier 2 | 48.9 | 49.5 |
| Average Pay Tier 1 | \$ 61,952 | \$ 62,322 |
| Average Pay Tier 2 | 52,893 | 53,851 |
| Average Pay Total | \$ 61,493 | \$ 61,914 |
| Covered Payroll Prior Fiscal Year | | |
| Tier 1 | \$ 9,388,604,763 | \$ 9,449,935,700 |
| Tier 2 | 427,907,081 | 413,255,995 |
| Total | \$ 9,816,511,844 | \$ 9,863,191,695 |
| Projected Payroll for Contribution Rate | | |
| Tier 1 | \$ 10,065,946,533 | \$ 10,132,613,023 |
| Tier 2 | 399,007,271 | 382,104,128 |
| Total | \$ 10,464,953,804 | \$ 10,514,717,151 |

- Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.
- Includes non-vested terminated participants with employee contributions remaining in the plan.

STATE MISCELLANEOUS (CONTINUED)

Funded Status of the Retirement Program

| | June 30, 2009 | June 30, 2010 |
|----------------------------------------------------------------|----------------------|----------------------|
| Present Value of Benefits | \$ 85,804,183,546 | \$ 88,081,227,732 |
| Accrued Liability | \$ 74,762,618,379 | \$ 76,980,432,507 |
| Market Value of Assets | \$ 44,093,662,038 | \$ 48,645,908,066 |
| Unfunded Liability/(Surplus) on a Market Value of Assets Basis | \$ 30,668,956,341 | \$ 28,334,524,441 |
| Funded Status | 59.0% | 63.2% |

Employer Contribution

| | June 30, 2009 | June 30, 2010 |
|---------------------------------------------------|-------------------------|-------------------------|
| Tier 1 Contribution Required in Dollars | | |
| Employer Normal Costs | \$ 992,703,647 | \$ 791,483,897 |
| Amortization of Unfunded Liability ³ | 1,012,683,152 | 1,046,820,826 |
| Group Term Life Benefits | - | 3,343,762 |
| Total | <u>\$ 2,005,386,799</u> | <u>\$ 1,841,648,485</u> |
| Tier 1 Contribution Required (Percent of Payroll) | | |
| Employer Normal Costs | 9.862% | 7.811% |
| Amortization of Unfunded Liability ³ | 10.060% | 10.331% |
| Group Term Life Benefits | <u>0.000%</u> | <u>0.033%</u> |
| Total | 19.922% | 18.175% |

| | | |
|---------------------------------------------------|----------------------|----------------------|
| Tier 2 Contribution Required in Dollars | | |
| Employer Normal Costs | \$ 38,153,075 | \$ 25,451,956 |
| Amortization of Unfunded Liability ³ | 40,142,071 | 39,475,953 |
| Group Term Life Benefits | - | 126,094 |
| Total | <u>\$ 78,295,146</u> | <u>\$ 65,054,003</u> |
| Tier 2 Contribution Required (Percent of Payroll) | | |
| Employer Normal Costs | 9.562% | 6.661% |
| Amortization of Unfunded Liability ³ | 10.060% | 10.331% |
| Group Term Life Benefits | <u>0.000%</u> | <u>0.033%</u> |
| Total | 19.622% | 17.025% |

³ For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

STATE INDUSTRIAL

Participant Information

| | June 30, 2009 | June 30, 2010 |
|------------------------------------------------|----------------|----------------|
| Members Included in the Valuation ¹ | | |
| Active Members | 10,823 | 11,637 |
| Transfers from Industrial | 7,660 | 7,601 |
| Vested Terminations ² | 2,642 | 2,666 |
| Receiving Payments | 8,470 | 9,275 |
| Total | 29,595 | 31,179 |
| Average Entry Age of Active Members | 36.9 | 36.9 |
| Average Age of Active Members | 45.4 | 45.1 |
| Average Pay | \$ 49,733 | \$ 49,639 |
| Covered Payroll Prior Fiscal Year | \$ 538,263,711 | \$ 577,654,483 |
| Projected Payroll for Contribution Rate | \$ 573,819,393 | \$ 615,812,172 |

- Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.
- Includes non-vested terminated participants with employee contributions remaining in the plan.

Funded Status of the Retirement Program

| | June 30, 2009 | June 30, 2010 |
|----------------------------------------------------------------|------------------|------------------|
| Present Value of Benefits | \$ 3,291,688,170 | \$ 3,512,457,534 |
| Accrued Liability | \$ 2,467,298,792 | \$ 2,614,478,114 |
| Market Value of Assets | \$ 1,555,771,235 | \$ 1,784,901,351 |
| Unfunded Liability/(Surplus) on a Market Value of Assets Basis | \$ 911,527,557 | \$ 829,576,763 |
| Funded Status | 63.1% | 68.3% |

Employer Contribution

| | June 30, 2009 | June 30, 2010 |
|-------------------------------------------------|----------------|---------------|
| Contribution Required in Dollars | | |
| Employer Normal Costs | \$ 78,171,416 | \$ 64,915,047 |
| Amortization of Unfunded Liability ³ | 25,190,325 | 26,059,610 |
| Group Term Life Benefits | 975,493 | 991,458 |
| Total | \$ 104,337,234 | \$ 91,966,115 |
| Contribution Required (Percent of Payroll) | | |
| Employer Normal Costs | 13.623% | 10.541% |
| Amortization of Unfunded Liability ³ | 4.390% | 4.232% |
| Group Term Life Benefits | 0.170% | 0.161% |
| Total | 18.183% | 14.934% |

- For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

STATE SAFETY

Participant Information

| | June 30, 2009 | June 30, 2010 |
|------------------------------------------------|------------------|------------------|
| Members Included in the Valuation ¹ | | |
| Active Members | 25,863 | 24,900 |
| Transfers From State Safety | 4,547 | 4,787 |
| Vested Terminations ² | 4,323 | 4,694 |
| Receiving Payments | 15,576 | 16,749 |
| Total | 50,309 | 51,130 |
| Average Entry Age of Active Members | 40.7 | 40.3 |
| Average Age of Active Members | 47.4 | 47.4 |
| Average Pay | \$ 74,278 | \$ 75,497 |
| Covered Payroll Prior Fiscal Year | \$ 1,921,044,751 | \$ 1,879,876,274 |
| Projected Payroll for Contribution Rate | \$ 2,047,941,763 | \$ 2,004,053,851 |

1 Counts of members included in the valuation are counts of the records processed by the valuation.

Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

2 Includes non-vested terminated participants with employee contributions remaining in the plan.

Funded Status of the Retirement Program

| | June 30, 2009 | June 30, 2010 |
|----------------------------------------------------------------|------------------|------------------|
| Present Value of Benefits | \$ 9,111,215,208 | \$ 9,420,615,235 |
| Accrued Liability | \$ 6,005,613,098 | \$ 6,435,647,069 |
| Market Value of Assets | \$ 3,514,114,682 | \$ 4,196,169,119 |
| Unfunded Liability/(Surplus) on a Market Value of Assets Basis | \$ 2,491,498,416 | \$ 2,239,477,950 |
| Funded Status | 58.5% | 65.2% |

Employer Contribution

| | June 30, 2009 | June 30, 2010 |
|-------------------------------------------------|----------------|----------------|
| Contribution Required in Dollars | | |
| Employer Normal Costs | \$ 336,661,146 | \$ 247,572,568 |
| Amortization of Unfunded Liability ³ | 84,142,246 | 79,550,574 |
| Group Term Life Benefits | 2,539,448 | 2,104,257 |
| Total | \$ 423,342,840 | \$ 329,227,399 |
| Contribution Required (Percent of Payroll) | | |
| Employer Normal Costs | 16.439% | 12.354% |
| Amortization of Unfunded Liability ³ | 4.109% | 3.969% |
| Group Term Life Benefits | 0.124% | 0.105% |
| Total | 20.672% | 16.428% |

3 For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

STATE PEACE OFFICERS AND FIREFIGHTERS

Participant Information

| | June 30, 2009 | June 30, 2010 |
|------------------------------------------------|------------------|------------------|
| Members Included in the Valuation ¹ | | |
| Active Members | 46,987 | 45,018 |
| Transfers from State POFF | 5,583 | 5,200 |
| Vested Terminations ² | 5,767 | 6,006 |
| Receiving Payments | 22,571 | 24,801 |
| Total | 80,908 | 81,025 |
| Average Entry Age of Active Members | 30.2 | 30.2 |
| Average Age of Active Members | 41.2 | 41.5 |
| Average Pay | \$ 71,706 | \$ 71,987 |
| Covered Payroll Prior Fiscal Year | \$ 3,369,258,593 | \$ 3,240,688,506 |
| Projected Payroll for Contribution Rate | \$ 3,591,819,181 | \$ 3,454,756,236 |

- Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.
- Includes non-vested terminated participants with employee contributions remaining in the plan.

Funded Status of the Retirement Program

| | June 30, 2009 | June 30, 2010 |
|----------------------------------------------------------------|-------------------|-------------------|
| Present Value of Benefits | \$ 34,244,736,129 | \$ 35,298,097,500 |
| Accrued Liability | \$ 26,291,087,859 | \$ 27,711,534,817 |
| Market Value of Assets | \$ 15,083,085,214 | \$ 17,199,098,812 |
| Unfunded Liability/(Surplus) on a Market Value of Assets Basis | \$ 11,208,002,645 | \$ 10,512,436,005 |
| Funded Status | 57.4% | 62.1% |

Employer Contribution

| | June 30, 2009 | June 30, 2010 |
|-------------------------------------------------|------------------|----------------|
| Contribution Required in Dollars | | |
| Employer Normal Costs | \$ 659,565,756 | \$ 556,578,374 |
| Amortization of Unfunded Liability ³ | 375,254,664 | 387,440,410 |
| Group Term Life Benefits | 2,765,701 | 3,109,281 |
| Total | \$ 1,037,586,121 | \$ 947,128,065 |
| Contribution Required (Percent of Payroll) | | |
| Employer Normal Costs | 18.363% | 16.110% |
| Amortization of Unfunded Liability ³ | 10.447% | 11.215% |
| Group Term Life Benefits | 0.077% | 0.090% |
| Total | 28.887% | 27.415% |

- For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

CALIFORNIA HIGHWAY PATROL

Participant Information

| | June 30, 2009 | June 30, 2010 |
|------------------------------------------------|----------------|----------------|
| Members Included in the Valuation ¹ | | |
| Active Members | 7,335 | 7,476 |
| Transfers from CHP | 316 | 321 |
| Vested Terminations ² | 350 | 328 |
| Receiving Payments | 7,567 | 7,805 |
| Total | 15,568 | 15,930 |
| Average Entry Age of Active Members | 26.3 | 26.4 |
| Average Age of Active Members | 39.1 | 39.0 |
| Average Pay | \$ 93,813 | \$ 96,290 |
| Covered Payroll Prior Fiscal Year | \$ 688,117,602 | \$ 719,864,469 |
| Projected Payroll for Contribution Rate | \$ 733,572,070 | \$ 767,416,016 |

- 1 Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.
- 2 Includes non-vested terminated participants with employee contributions remaining in the plan.

Funded Status of the Retirement Program

| | June 30, 2009 | June 30, 2010 |
|----------------------------------------------------------------|------------------|------------------|
| Present Value of Benefits | \$ 8,901,809,378 | \$ 9,399,974,347 |
| Accrued Liability | \$ 7,300,111,305 | \$ 7,703,863,633 |
| Market Value of Assets | \$ 3,932,218,884 | \$ 4,439,496,887 |
| Unfunded Liability/(Surplus) on a Market Value of Assets Basis | \$ 3,367,892,421 | \$ 3,264,366,746 |
| Funded Status | 53.9% | 57.6% |

Employer Contribution

| | June 30, 2009 | June 30, 2010 |
|-------------------------------------------------|----------------|----------------|
| Contribution Required in Dollars | | |
| Employer Normal Costs | \$ 112,970,099 | \$ 103,855,420 |
| Amortization of Unfunded Liability ³ | 126,360,162 | 136,071,669 |
| Group Term Life Benefits | - | - |
| Total | \$ 239,330,261 | \$ 239,927,089 |
| Contribution Required (Percent of Payroll) | | |
| Employer Normal Costs | 15.400% | 13.533% |
| Amortization of Unfunded Liability ³ | 17.225% | 17.731% |
| Group Term Life Benefits | 0.000% | 0.000% |
| Total | 32.625% | 31.264% |

- 3 For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

SCHOOLS

Participant Information

| | June 30, 2009 | June 30, 2010 |
|------------------------------------------------|-------------------|-------------------|
| Members Included in the Valuation ¹ | | |
| Active Members | 299,066 | 291,530 |
| Transfers from Schools | 25,843 | 23,101 |
| Vested Terminations ² | 155,624 | 159,360 |
| Receiving Payments | 174,733 | 181,706 |
| Total | 655,266 | 655,697 |
| Average Entry Age of Active Members | 36.8 | 36.7 |
| Average Age of Active Members | 46.6 | 47.0 |
| Average Pay | \$ 34,846 | \$ 36,306 |
| Covered Payroll Prior Fiscal Year | \$ 10,421,362,253 | \$ 10,584,242,823 |
| Projected Payroll for Contribution Rate | \$ 11,109,758,363 | \$ 11,283,398,213 |

- 1 Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.
- 2 Includes non-vested terminated participants with employee contributions remaining in the plan.

Funded Status of the Retirement Program

| | June 30, 2009 | June 30, 2010 |
|----------------------------------------------------------------|-------------------|-------------------|
| Present Value of Benefits | \$ 63,760,931,059 | \$ 66,620,002,962 |
| Accrued Liability | \$ 52,493,079,524 | \$ 55,306,963,638 |
| Market Value of Assets | \$ 34,146,446,650 | \$ 38,435,174,651 |
| Unfunded Liability/(Surplus) on a Market Value of Assets Basis | \$ 18,346,632,874 | \$ 16,871,788,987 |
| Funded Status | 65.0% | 69.5% |

Employer Contribution

| | June 30, 2009 | June 30, 2010 |
|-------------------------------------------------|------------------|------------------|
| Contribution Required in Dollars | | |
| Employer Normal Costs | \$ 796,902,967 | \$ 804,731,961 |
| Amortization of Unfunded Liability ³ | 392,579,802 | 427,754,976 |
| Total | \$ 1,189,482,769 | \$ 1,232,486,937 |
| Contribution Required (Percent of Payroll) | | |
| Employer Normal Costs | 7.173% | 7.132% |
| Amortization of Unfunded Liability ³ | 3.534% | 3.791% |
| Total | 10.707% | 10.923% |

- 3 For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

Development of Accrued and Unfunded Liabilities

The following table shows the development of the accrued liabilities and the unfunded liabilities based on the market value of assets and represent the true measure of the plan's ability to pay benefits.

| | State Miscellaneous | State Industrial | State Safety | State Peace Officers and Firefighters | California Highway Patrol | Schools |
|-------------------------------------------------------|------------------------|---------------------|------------------|---------------------------------------------|---------------------------------|-------------------|
| 1. Present Value of Benefits | | | | | | |
| a. Actives and Inactives | \$ 46,803,071,478 | \$ 2,330,840,316 | \$ 6,432,458,012 | \$ 20,401,740,410 | \$ 4,664,169,450 | \$ 41,988,986,705 |
| b. Retired | 41,278,156,254 | 1,181,617,218 | 2,988,157,223 | 14,896,357,090 | 4,735,804,897 | 24,631,016,257 |
| c. Total | \$ 88,081,227,732 | \$ 3,512,457,534 | \$ 9,420,615,235 | \$ 35,298,097,500 | \$ 9,399,974,347 | \$ 66,620,002,962 |
| 2. Present Value of Future Employee Contributions | \$ 5,072,655,502 | \$ 379,895,587 | \$ 1,356,530,073 | \$ 2,844,846,022 | \$ 678,204,513 | \$ 5,802,383,655 |
| 3. Present Value of Future Employer Normal Costs | \$ 6,028,139,723 | \$ 518,083,833 | \$ 1,628,438,093 | \$ 4,741,716,661 | \$ 1,017,906,201 | \$ 5,510,655,669 |
| 4. Accrued Liability [(1c) - (2) - (3)] | \$ 76,980,432,507 | \$ 2,614,478,114 | \$ 6,435,647,069 | \$ 27,711,534,817 | \$ 7,703,863,633 | \$ 55,306,963,638 |
| 5. Market Value of Assets (MVA) | \$ 48,645,908,066 | \$ 1,784,901,351 | \$ 4,196,169,119 | \$ 17,199,098,812 | \$ 4,439,496,887 | \$ 38,435,174,651 |
| 6. Unfunded Liability/(Surplus) MVA Basis [(4) - (5)] | \$ 28,334,524,441 | \$ 829,576,763 | \$ 2,239,477,950 | \$ 10,512,436,005 | \$ 3,264,366,746 | \$ 16,871,788,987 |
| 7. Funded Status MVA Basis [(5)/(4)] | 63.2% | 68.3% | 65.2% | 62.1% | 57.6% | 69.5% |

Development of Employer Contribution Rates

The following table shows the development of the unfunded liabilities based on the smoothed actuarial value of assets. The unfunded liability on an actuarial value of assets basis is used only for purposes of setting the employer contribution and keeping the contribution rates as smooth as possible from year to year.

| | State Miscellaneous | State Industrial | State Safety | State Peace Officers and Firefighters | California Highway Patrol | Schools |
|----------------------------------------|------------------------|---------------------|------------------|---------------------------------------------|---------------------------------|-------------------|
| Accrued Liability | \$ 76,980,432,507 | \$ 2,614,478,114 | \$ 6,435,647,069 | \$ 27,711,534,817 | \$ 7,703,863,633 | \$ 55,306,963,638 |
| Actuarial Value of Assets (AVA) | \$ 62,213,588,699 | \$ 2,268,588,289 | \$ 5,272,535,578 | \$ 21,928,176,588 | \$ 5,663,252,031 | \$ 48,955,651,302 |
| Unfunded Liability/(Surplus) AVA Basis | \$ 14,766,843,808 | \$ 345,889,825 | \$ 1,163,111,491 | \$ 5,783,358,229 | \$ 2,040,611,602 | \$ 6,351,312,336 |

The following table shows the development of the employer contribution rates which includes the amortization of the unfunded liability calculated on an actuarial value of assets basis.

| | State Miscellaneous | | State Industrial | State Safety | State Peace Officers and Firefighters | California Highway Patrol | Schools |
|------------------------------------------------------|---------------------|----------------|---------------------|------------------|---------------------------------------------|---------------------------------|-------------------|
| | Tier 1 | Tier 2 | | | | | |
| Employer Contribution Amount | | | | | | | |
| Total Normal Cost | \$ 1,461,528,102 | \$ 25,451,956 | \$ 108,327,519 | \$ 435,060,051 | \$ 879,028,177 | \$ 172,852,784 | \$ 1,594,457,001 |
| Expected Employee Contribution | (670,044,206) | - | (43,412,472) | (187,487,483) | (322,449,802) | (68,997,363) | (789,725,041) |
| Employer Normal Cost | 791,483,897 | 25,451,956 | 64,915,047 | 247,572,568 | 556,578,374 | 103,855,420 | 804,731,961 |
| Payment on the Unfunded Liability | 1,046,820,826 | 39,475,953 | 26,059,610 | 79,550,574 | 387,440,410 | 136,071,669 | 427,754,976 |
| Payment for Term Life Benefits (Sec. 21600-21605) | 3,343,762 | 126,094 | 991,458 | 2,104,257 | 3,109,281 | - | N/A |
| Total Employer Contribution Amount | \$ 1,841,648,485 | \$ 65,054,003 | \$ 91,966,115 | \$ 329,227,399 | \$ 947,128,065 | \$ 239,927,089 | \$ 1,232,486,937 |
| Projected Payroll | \$ 10,132,613,023 | \$ 382,104,128 | \$ 615,812,172 | \$ 2,004,053,851 | \$ 3,454,756,236 | \$ 767,416,016 | \$ 11,283,398,213 |
| Employer Contribution (as a percent of payroll) | | | | | | | |
| Total Normal Cost | 14.424% | 6.661% | 17.591% | 21.709% | 25.444% | 22.524% | 14.131% |
| Expected Employee Contribution | (6.613%) | 0.000% | (7.050%) | (9.355%) | (9.334%) | (8.991%) | (6.999%) |
| Employer Normal Cost | 7.811% | 6.661% | 10.541% | 12.354% | 16.110% | 13.533% | 7.132% |
| Payment on the Unfunded Liability | 10.331% | 10.331% | 4.232% | 3.969% | 11.215% | 17.731% | 3.791% |
| Payment for Term Life Benefits (Sec. 21600-21605) | 0.033% | 0.033% | 0.161% | 0.105% | 0.090% | 0.000% | N/A |
| Total Employer Contribution Rate | 18.175% | 17.025% | 14.934% | 16.428% | 27.415% | 31.264% | 10.923% |

Schedule of Amortization Bases for the Retirement Program

The schedule below shows the development of the payment on the amortization bases used to determine the employer contribution rates. Each row of the schedule gives a brief description of a base (or portion of the Unfunded Actuarial Liability), the date the base was established, the balance of the base on the valuation date, and the number of years remaining in the amortization period. In addition, we show the expected payment for the year immediately following the valuation date, the balance on the date a year after the valuation date, and the scheduled payment for fiscal year 2011-2012. Please refer to Appendix A for an explanation of how amortization periods are determined.

State Miscellaneous

| Reason for Base | Date Established | Remaining Amortization Period | Balance on 6/30/2010 | Expected Payment in 2010-2011 | Amount Remaining on 6/30/2011 | Scheduled Payment for Fiscal Year 2011-2012 |
|-----------------------------------------|------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|---------------------------------------------|
| Assumption Change | 6/30/2009 | 19 | \$ 2,160,974,319 | \$ 163,220,894 | \$ 2,159,022,138 | \$ 168,525,573 |
| Reclass of BU 7 Members | 6/30/2005 | 15 | \$ (93,273,293) | \$ (8,174,003) | \$ (92,017,137) | \$ (8,439,658) |
| New Rate Stabilization Policies | 6/30/2004 | 14 | \$ (197,162,549) | \$ (18,083,420) | \$ (193,671,569) | \$ (18,671,131) |
| Actuarial Equivalent Reduction Benefits | 6/30/2004 | 14 | \$ 273,478,332 | \$ 25,082,976 | \$ 268,636,097 | \$ 25,898,173 |
| Benefit Change (SB 1801) | 6/30/2003 | 13 | \$ (2,565,797) | \$ (247,359) | \$ (2,507,881) | \$ (255,398) |
| Assumption Change | 6/30/2003 | 13 | \$ 879,039,104 | \$ 84,744,780 | \$ 859,197,267 | \$ 87,498,986 |
| (Gain)/Loss Prior to 2009 | N/A | 22 | \$ 10,601,538,394 | \$ 735,187,982 | \$ 10,660,012,663 | \$ 759,081,591 |
| (Gain)/Loss in 2009 | 6/30/2009 | 29 | \$ 1,078,481,481 | \$ 64,763,866 | \$ 1,094,837,156 | \$ 66,868,692 |
| (Gain)/Loss in 2010 | 6/30/2010 | 30 | \$ (39,068,399) | \$ - | \$ (42,096,200) | \$ (2,527,918) |
| Payment (Gain)/Loss | N/A | 30 | \$ 105,402,216 | \$ (24,028,841) | \$ 138,513,473 | \$ 8,317,869 |
| Total | | | \$ 14,766,843,808 | \$ 1,022,466,875 | \$ 14,849,926,006 | \$ 1,086,296,779 |

State Industrial

| Reason for Base | Date Established | Remaining Amortization Period | Balance on 6/30/2010 | Expected Payment in 2010-2011 | Amount Remaining on 6/30/2011 | Scheduled Payment for Fiscal Year 2011-2012 |
|-----------------------------------------|------------------|-------------------------------|-----------------------|-------------------------------|-------------------------------|---------------------------------------------|
| Assumption Change | 6/30/2009 | 19 | \$ 71,555,785 | \$ 5,404,691 | \$ 71,491,143 | \$ 5,580,344 |
| New Rate Stabilization Policies | 6/30/2004 | 14 | \$ (6,768,513) | \$ (620,797) | \$ (6,648,669) | \$ (640,973) |
| Actuarial Equivalent Reduction Benefits | 6/30/2004 | 14 | \$ 12,294,100 | \$ 1,127,594 | \$ 12,076,420 | \$ 1,164,241 |
| Assumption Change | 6/30/2003 | 13 | \$ 94,162,002 | \$ 9,077,797 | \$ 92,036,559 | \$ 9,372,825 |
| (Gain)/Loss in 2009 | 6/30/2009 | 29 | \$ 37,295,912 | \$ 2,239,656 | \$ 37,861,522 | \$ 2,312,445 |
| (Gain)/Loss in 2010 | 6/30/2010 | 30 | \$ 4,773,460 | \$ - | \$ 5,143,403 | \$ 308,866 |
| (Gain)/Loss Prior to 2009 | N/A | 30 | \$ 135,666,623 | \$ 8,146,912 | \$ 137,724,072 | \$ 8,270,465 |
| Payment (Gain)/Loss | N/A | 30 | \$ (3,089,544) | \$ 1,743,740 | \$ (5,139,033) | \$ (308,604) |
| Total | | | \$ 345,889,825 | \$ 27,119,593 | \$ 344,545,417 | \$ 26,059,610 |

Schedule of Amortization Bases for the Retirement Program (Continued)

State Safety

| Reason for Base | Date Established | Remaining Amortization Period | Balance on 6/30/2010 | Expected Payment in 2010-2011 | Amount Remaining on 6/30/2011 | Scheduled Payment for Fiscal Year 2011-2012 |
|---------------------------------|------------------|-------------------------------|----------------------|-------------------------------|-------------------------------|---------------------------------------------|
| Assumption Change | 6/30/2009 | 19 | \$ 276,660,488 | \$ 20,896,487 | \$ 276,410,559 | \$ 21,575,623 |
| New Rate Stabilization Policies | 6/30/2004 | 14 | \$ (7,636,371) | \$ (700,395) | \$ (7,501,161) | \$ (723,158) |
| Assumption Change | 6/30/2003 | 13 | \$ (3,414,319) | \$ (329,161) | \$ (3,337,251) | \$ (339,859) |
| Benefit Change (Arnett) | 6/30/2002 | 12 | \$ 107,216,201 | \$ 10,918,690 | \$ 104,191,562 | \$ 11,273,548 |
| (Gain)/Loss in 2009 | 6/30/2009 | 29 | \$ 140,361,775 | \$ 8,428,862 | \$ 142,490,426 | \$ 8,702,800 |
| (Gain)/Loss in 2010 | 6/30/2010 | 30 | \$ (98,236,696) | \$ - | \$ (105,850,040) | \$ (6,356,398) |
| (Gain)/Loss Prior to 2009 | N/A | 30 | \$ 776,525,286 | \$ 46,631,100 | \$ 788,301,656 | \$ 47,338,284 |
| Payment (Gain)/Loss | N/A | 30 | \$ (28,364,873) | \$ 1,362,300 | \$ (31,977,255) | \$ (1,920,265) |
| Total | | | \$ 1,163,111,491 | \$ 87,207,883 | \$ 1,162,728,496 | \$ 79,550,574 |

State Peace Officers and Firefighters

| Reason for Base | Date Established | Remaining Amortization Period | Balance on 6/30/2010 | Expected Payment in 2010-2011 | Amount Remaining on 6/30/2011 | Scheduled Payment for Fiscal Year 2011-2012 |
|---------------------------------|------------------|-------------------------------|----------------------|-------------------------------|-------------------------------|---------------------------------------------|
| Assumption Change | 6/30/2009 | 19 | \$ 717,573,645 | \$ 54,199,169 | \$ 716,925,403 | \$ 55,960,642 |
| Benefit Change (SB 65) | 6/30/2006 | 16 | \$ 290,622,889 | \$ 24,426,660 | \$ 287,790,631 | \$ 25,220,526 |
| New Rate Stabilization Policies | 6/30/2004 | 14 | \$ (56,483,140) | \$ (5,180,539) | \$ (55,483,044) | \$ (5,348,907) |
| Benefit Change (SB 183) | 6/30/2004 | 14 | \$ 18,432,397 | \$ 1,690,589 | \$ 18,106,031 | \$ 1,745,533 |
| Assumption Change | 6/30/2003 | 13 | \$ 368,814,804 | \$ 35,556,017 | \$ 360,489,847 | \$ 36,711,588 |
| (Gain)/Loss in 2009 | 6/30/2009 | 29 | \$ 349,673,141 | \$ 20,998,214 | \$ 354,976,097 | \$ 21,680,656 |
| (Gain)/Loss in 2010 | 6/30/2010 | 30 | \$ 38,761,218 | \$ - | \$ 41,765,213 | \$ 2,508,042 |
| (Gain)/Loss Prior to 2009 | N/A | 30 | \$ 4,106,415,300 | \$ 246,594,249 | \$ 4,168,691,004 | \$ 250,333,966 |
| Payment (Gain)/Loss | N/A | 30 | \$ (50,452,025) | \$ (30,366,147) | \$ (22,841,177) | \$ (1,371,635) |
| Total | | | \$ 5,783,358,229 | \$ 347,918,212 | \$ 5,870,420,004 | \$ 387,440,410 |

Schedule of Amortization Bases for the Retirement Program (Continued)

California Highway Patrol

| Reason for Base | Date Established | Remaining Amortization Period | Balance on 6/30/2010 | Expected Payment in 2010-2011 | Amount Remaining on 6/30/2011 | Scheduled Payment for Fiscal Year 2011-2012 |
|---------------------------------|------------------|-------------------------------|----------------------|-------------------------------|-------------------------------|---------------------------------------------|
| Assumption Change | 6/30/2009 | 19 | \$ 175,420,269 | \$ 13,249,696 | \$ 175,261,798 | \$ 13,680,311 |
| Benefit Change (AB 2936) | 6/30/2008 | 18 | \$ (211,307,185) | \$ (16,493,886) | \$ (210,562,394) | \$ (17,029,937) |
| Benefit Change (SB 439) | 6/30/2005 | 15 | \$ 175,914,083 | \$ 15,416,227 | \$ 173,544,964 | \$ 15,917,255 |
| New Rate Stabilization Policies | 6/30/2004 | 14 | \$ (19,261,638) | \$ (1,766,645) | \$ (18,920,589) | \$ (1,824,061) |
| Assumption Change | 6/30/2003 | 13 | \$ 60,577,660 | \$ 5,840,059 | \$ 59,210,289 | \$ 6,029,861 |
| Benefit Change (SB 1801) | 6/30/2003 | 13 | \$ 9,597,229 | \$ 925,232 | \$ 9,380,598 | \$ 955,302 |
| Benefit Change (Arnett) | 6/30/2002 | 12 | \$ 1,992,127 | \$ 202,874 | \$ 1,935,928 | \$ 209,468 |
| Benefit Change (AB 2621) | 6/30/2001 | 11 | \$ 2,769,399 | \$ 299,650 | \$ 2,672,983 | \$ 309,388 |
| (Gain)/Loss Prior to 2009 | N/A | 27 | \$ 1,495,952,087 | \$ 93,025,027 | \$ 1,515,325,886 | \$ 96,048,340 |
| (Gain)/Loss in 2009 | 6/30/2009 | 29 | \$ 283,094,540 | \$ 17,000,104 | \$ 287,387,801 | \$ 17,552,607 |
| (Gain)/Loss in 2010 | 6/30/2010 | 30 | \$ 88,147,031 | \$ - | \$ 94,978,425 | \$ 5,703,547 |
| Payment (Gain)/Loss | N/A | 30 | \$ (22,283,999) | \$ 618,079 | \$ (24,652,592) | \$ (1,480,412) |
| Total | | | \$ 2,040,611,602 | \$ 128,316,417 | \$ 2,065,563,099 | \$ 136,071,669 |

Schools

| Reason for Base | Date Established | Remaining Amortization Period | Balance on 6/30/2010 | Expected Payment in 2010-2011 | Amount Remaining on 6/30/2011 | Scheduled Payment for Fiscal Year 2011-2012 |
|---------------------------|------------------|-------------------------------|----------------------|-------------------------------|-------------------------------|---------------------------------------------|
| Assumption Change | 6/30/2009 | 19 | \$ 1,062,610,719 | \$ 80,260,219 | \$ 1,061,650,778 | \$ 82,868,676 |
| Fresh Start | 6/30/2004 | 24 | \$ 2,763,340,118 | \$ 182,671,736 | \$ 2,787,880,788 | \$ 188,608,567 |
| (Gain)/Loss in 2009 | 6/30/2009 | 29 | \$ 804,818,606 | \$ 48,330,143 | \$ 817,024,056 | \$ 49,900,873 |
| (Gain)/Loss in 2010 | 6/30/2010 | 30 | \$ 366,398,312 | \$ - | \$ 394,794,181 | \$ 23,707,776 |
| (Gain)/Loss Prior to 2009 | N/A | 30 | \$ 1,353,323,799 | \$ 81,268,416 | \$ 1,373,847,585 | \$ 82,500,889 |
| Payment (Gain)/Loss | N/A | 30 | \$ 820,781 | \$ (1,846,266) | \$ 2,800,866 | \$ 168,195 |
| Total | | | \$ 6,351,312,336 | \$ 390,684,248 | \$ 6,437,998,254 | \$ 427,754,976 |

Gain and Loss Analysis

STATE MISCELLANEOUS

A. Total (Gain)/Loss for the Year

| | |
|-------------------------------------------------------------------------------------------|-----------------------|
| 1. Unfunded Liability/(Surplus) as of 6/30/09 | \$ 14,430,330,994 |
| 2. Expected Payment on the Unfunded Liability during 2009-2010 | 715,558,899 |
| 3. Interest through 6/30/10 $[0.0775 \times (A1) - ((1 + 0.0775)^{1/2} - 1) \times (A2)]$ | 1,091,140,112 |
| 4. Expected Unfunded Liability as of 6/30/10 before all changes $[(A1)-(A2)+(A3)]$ | \$ 14,805,912,207 |
| 5. Actual Unfunded Liability as of 6/30/10 | <u>14,766,843,808</u> |
| 6. Total (Gain)/Loss for 2009-2010 $[(A4) - (A5)]$ | \$ (39,068,399) |

B. Contribution (Gain)/Loss for the Year

| | |
|-----------------------------------------------------------|----------------------|
| 1. Expected Contribution for 2009-2010 | \$ 2,153,058,577 |
| 2. Actual Contribution for 2009-2010 | <u>2,016,757,986</u> |
| 3. Contribution (Gain)/Loss for 2009-2010 $[(B1) - (B2)]$ | \$ 136,300,591 |

C. Asset (Gain)/Loss for the Year

| | |
|---------------------------------------------------------------------------------------------------------|-----------------------|
| 1. Actuarial Value of Assets before receivables as of 6/30/09 | \$ 59,833,123,553 |
| 2. Contributions Received during 2009-2010 | 2,016,757,986 |
| 3. Benefits and Refunds Paid during 2009-2010 | (3,771,189,141) |
| 4. Expected Interest for 2009-2010 $[0.0775 \times (C1) + ((1+0.0775)^{1/2} - 1) \times ((C2) + (C3))]$ | 4,570,351,366 |
| 5. Receivables for AER and Past Service Benefits | <u>499,163,832</u> |
| 6. Expected Actuarial Value of Assets as of 6/30/10 $[(C1) + (C2) + (C3) + (C4) + (C5)]$ | \$ 63,148,207,596 |
| 7. Actual Actuarial Value of Assets as of 6/30/10 | <u>62,213,588,699</u> |
| 8. Asset (Gain)/Loss for 2009-2010 $[(C6) - (C7)]$ | \$ 934,618,897 |

D. Liability (Gain)/Loss for the Year

| | |
|---------------------------------------------------------------|--------------------|
| 1. Total (Gain)/Loss for 2009-2010 (A6) | \$ (39,068,399) |
| 2. Contribution (Gain)/Loss for 2009-2010 (B3) | 136,300,591 |
| 3. Asset (Gain)/Loss for 2009-2010 (C8) | <u>934,618,897</u> |
| 4. Liability (Gain)/Loss for 2009-2010 $[(D1) - (D2) - (D3)]$ | \$ (1,109,987,887) |

E. Development of the (Gain)/Loss Balance as of 6/30/10

| | |
|-------------------------------------------------------------------------------------------|--------------------|
| 1. (Gain)/Loss Balance as of 6/30/09 | \$ 11,444,073,847 |
| 2. Payment Made on the Balance during 2009-2010 | 627,122,134 |
| 3. Interest through 6/30/10 $[0.0775 \times (E1) - ((1 + 0.0775)^{1/2} - 1) \times (E2)]$ | <u>863,068,166</u> |
| 4. Scheduled (Gain)/Loss Balance as of 6/30/10 $[(E1) - (E2) + (E3)]$ | \$ 11,680,019,879 |
| 5. (Gain)/Loss for 2009-2010 $[(A6) \text{ above}]$ | (39,068,399) |
| 6. Final (Gain)/Loss Balance as of 6/30/10 $[(E4) + (E5)]$ | \$ 11,640,951,480 |

Gain and Loss Analysis (Continued)

STATE INDUSTRIAL

A. Total (Gain)/Loss for the Year

| | |
|---------------------------------------------------------------------------------------------------|--------------------|
| 1. Unfunded Liability/(Surplus) as of 6/30/09 | \$ 335,475,500 |
| 2. Expected Payment on the Unfunded Liability during 2009-2010 | 19,612,674 |
| 3. Interest through 6/30/10 $[0.0775 \times (A1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (A2)]$ | 25,253,541 |
| 4. Expected Unfunded Liability as of 6/30/10 before all changes $[(A1)-(A2)+(A3)]$ | \$ 341,116,367 |
| 5. Actual Unfunded Liability as of 6/30/10 | <u>345,889,825</u> |
| 6. Total (Gain)/Loss for 2009-2010 $[(A4) - (A5)]$ | \$ 4,773,458 |

B. Contribution (Gain)/Loss for the Year

| | |
|-----------------------------------------------------------|--------------------|
| 1. Expected Contribution for 2009-2010 | \$ 117,731,623 |
| 2. Actual Contribution for 2009-2010 | <u>106,417,897</u> |
| 3. Contribution (Gain)/Loss for 2009-2010 $[(B1) - (B2)]$ | \$ 11,313,726 |

C. Asset (Gain)/Loss for the Year

| | |
|-----------------------------------------------------------------------------------------------------------------|----------------------|
| 1. Actuarial Value of Assets before receivables as of 6/30/09 | \$ 2,117,573,930 |
| 2. Contributions Received during 2009-2010 | 106,417,897 |
| 3. Benefits and Refunds Paid during 2009-2010 | (101,864,672) |
| 4. Expected Interest for 2009-2010 $[0.0775 \times (C1) + ((1+0.0775)^{\frac{1}{2}} - 1) \times ((C2) + (C3))]$ | 164,285,125 |
| 5. Receivables for AER and Past Service Benefits | <u>14,249,362</u> |
| 6. Expected Actuarial Value of Assets as of 6/30/10 $[(C1) + (C2) + (C3) + (C4) + (C5)]$ | \$ 2,300,661,642 |
| 7. Actual Actuarial Value of Assets as of 6/30/10 | <u>2,268,588,289</u> |
| 8. Asset (Gain)/Loss for 2009-2010 $[(C6) - (C7)]$ | \$ 32,073,353 |

D. Liability (Gain)/Loss for the Year

| | |
|---------------------------------------------------------------|-------------------|
| 1. Total (Gain)/Loss for 2009-2010 (A6) | \$ 4,773,458 |
| 2. Contribution (Gain)/Loss for 2009-2010 (B3) | 11,313,726 |
| 3. Asset (Gain)/Loss for 2009-2010 (C8) | <u>32,073,353</u> |
| 4. Liability (Gain)/Loss for 2009-2010 $[(D1) - (D2) - (D3)]$ | \$ (38,613,620) |

E. Development of the (Gain)/Loss Balance as of 6/30/10

| | |
|---------------------------------------------------------------------------------------------------|-------------------|
| 1. (Gain)/Loss Balance as of 6/30/09 | \$ 168,253,294 |
| 2. Payment Made on the Balance during 2009-2010 | 8,025,207 |
| 3. Interest through 6/30/10 $[0.0775 \times (E1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (E2)]$ | <u>12,734,456</u> |
| 4. Scheduled (Gain)/Loss Balance as of 6/30/10 $[(E1) - (E2) + (E3)]$ | \$ 172,962,543 |
| 5. (Gain)/Loss for 2009-2010 $[(A6) \text{ above}]$ | 4,773,458 |
| 6. Final (Gain)/Loss Balance as of 6/30/10 $[(E4) + (E5)]$ | \$ 177,736,001 |

Gain and Loss Analysis (Continued)

STATE SAFETY

A. Total (Gain)/Loss for the Year

| | |
|---------------------------------------------------------------------------------------------------|----------------------|
| 1. Unfunded Liability/(Surplus) as of 6/30/09 | \$ 1,201,216,932 |
| 2. Expected Payment on the Unfunded Liability during 2009-2010 | 31,755,494 |
| 3. Interest through 6/30/10 $[0.0775 \times (A1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (A2)]$ | 91,886,747 |
| 4. Expected Unfunded Liability as of 6/30/10 before all changes $[(A1)-(A2)+(A3)]$ | \$ 1,261,348,185 |
| 5. Actual Unfunded Liability as of 6/30/10 | <u>1,163,111,491</u> |
| 6. Total (Gain)/Loss for 2009-2010 $[(A4) - (A5)]$ | \$ (98,236,694) |

B. Contribution (Gain)/Loss for the Year

| | |
|-----------------------------------------------------------|--------------------|
| 1. Expected Contribution for 2009-2010 | \$ 469,548,914 |
| 2. Actual Contribution for 2009-2010 | <u>403,233,174</u> |
| 3. Contribution (Gain)/Loss for 2009-2010 $[(B1) - (B2)]$ | \$ 66,315,740 |

C. Asset (Gain)/Loss for the Year

| | |
|-----------------------------------------------------------------------------------------------------------------|----------------------|
| 1. Actuarial Value of Assets before receivables as of 6/30/09 | \$ 4,789,030,848 |
| 2. Contributions Received during 2009-2010 | 403,233,174 |
| 3. Benefits and Refunds Paid during 2009-2010 | (233,341,264) |
| 4. Expected Interest for 2009-2010 $[0.0775 \times (C1) + ((1+0.0775)^{\frac{1}{2}} - 1) \times ((C2) + (C3))]$ | 377,610,366 |
| 5. Receivables for AER and Past Service Benefits | <u>15,365,318</u> |
| 6. Expected Actuarial Value of Assets as of 6/30/10 $[(C1) + (C2) + (C3) + (C4) + (C5)]$ | \$ 5,351,898,442 |
| 7. Actual Actuarial Value of Assets as of 6/30/10 | <u>5,272,535,578</u> |
| 8. Asset (Gain)/Loss for 2009-2010 $[(C6) - (C7)]$ | \$ 79,362,864 |

D. Liability (Gain)/Loss for the Year

| | |
|---------------------------------------------------------------|-------------------|
| 1. Total (Gain)/Loss for 2009-2010 (A6) | \$ (98,236,694) |
| 2. Contribution (Gain)/Loss for 2009-2010 (B3) | 66,315,740 |
| 3. Asset (Gain)/Loss for 2009-2010 (C8) | <u>79,362,864</u> |
| 4. Liability (Gain)/Loss for 2009-2010 $[(D1) - (D2) - (D3)]$ | \$ (243,915,298) |

E. Development of the (Gain)/Loss Balance as of 6/30/10

| | |
|---------------------------------------------------------------------------------------------------|-------------------|
| 1. (Gain)/Loss Balance as of 6/30/09 | \$ 895,190,993 |
| 2. Payment Made on the Balance during 2009-2010 | 45,934,483 |
| 3. Interest through 6/30/10 $[0.0775 \times (E1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (E2)]$ | <u>67,630,553</u> |
| 4. Scheduled (Gain)/Loss Balance as of 6/30/10 $[(E1) - (E2) + (E3)]$ | \$ 916,887,063 |
| 5. (Gain)/Loss for 2009-2010 $[(A6) \text{ above}]$ | (98,236,694) |
| 6. Final (Gain)/Loss Balance as of 6/30/10 $[(E4) + (E5)]$ | \$ 818,650,369 |

Gain and Loss Analysis (Continued)

STATE PEACE OFFICERS AND FIREFIGHTERS

A. Total (Gain)/Loss for the Year

| | |
|---------------------------------------------------------------------------------------------------|----------------------|
| 1. Unfunded Liability/(Surplus) as of 6/30/09 | \$ 5,581,454,448 |
| 2. Expected Payment on the Unfunded Liability during 2009-2010 | 259,550,246 |
| 3. Interest through 6/30/10 $[0.0775 \times (A1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (A2)]$ | 422,692,809 |
| 4. Expected Unfunded Liability as of 6/30/10 before all changes $[(A1)-(A2)+(A3)]$ | \$ 5,744,597,011 |
| 5. Actual Unfunded Liability as of 6/30/10 | <u>5,783,358,229</u> |
| 6. Total (Gain)/Loss for 2009-2010 $[(A4) - (A5)]$ | \$ 38,761,218 |

B. Contribution (Gain)/Loss for the Year

| | |
|-----------------------------------------------------------|----------------------|
| 1. Expected Contribution for 2009-2010 | \$ 1,142,737,707 |
| 2. Actual Contribution for 2009-2010 | <u>1,028,524,068</u> |
| 3. Contribution (Gain)/Loss for 2009-2010 $[(B1) - (B2)]$ | \$ 114,213,639 |

C. Asset (Gain)/Loss for the Year

| | |
|-----------------------------------------------------------------------------------------------------------------|-----------------------|
| 1. Actuarial Value of Assets before receivables as of 6/30/09 | \$ 20,665,379,825 |
| 2. Contributions Received during 2009-2010 | 1,028,524,068 |
| 3. Benefits and Refunds Paid during 2009-2010 | (1,068,666,565) |
| 4. Expected Interest for 2009-2010 $[0.0775 \times (C1) + ((1+0.0775)^{\frac{1}{2}} - 1) \times ((C2) + (C3))]$ | 1,600,040,439 |
| 5. Receivables for AER and Past Service Benefits | <u>44,253,586</u> |
| 6. Expected Actuarial Value of Assets as of 6/30/10 $[(C1) + (C2) + (C3) + (C4) + (C5)]$ | \$ 22,269,531,353 |
| 7. Actual Actuarial Value of Assets as of 6/30/10 | <u>21,928,176,588</u> |
| 8. Asset (Gain)/Loss for 2009-2010 $[(C6) - (C7)]$ | \$ 341,354,765 |

D. Liability (Gain)/Loss for the Year

| | |
|---------------------------------------------------------------|--------------------|
| 1. Total (Gain)/Loss for 2009-2010 (A6) | \$ 38,761,218 |
| 2. Contribution (Gain)/Loss for 2009-2010 (B3) | 114,213,639 |
| 3. Asset (Gain)/Loss for 2009-2010 (C8) | <u>341,354,765</u> |
| 4. Liability (Gain)/Loss for 2009-2010 $[(D1) - (D2) - (D3)]$ | \$ (416,807,186) |

E. Development of the (Gain)/Loss Balance as of 6/30/10

| | |
|---------------------------------------------------------------------------------------------------|--------------------|
| 1. (Gain)/Loss Balance as of 6/30/09 | \$ 4,369,592,561 |
| 2. Payment Made on the Balance during 2009-2010 | 242,910,400 |
| 3. Interest through 6/30/10 $[0.0775 \times (E1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (E2)]$ | <u>329,406,276</u> |
| 4. Scheduled (Gain)/Loss Balance as of 6/30/10 $[(E1) - (E2) + (E3)]$ | \$ 4,456,088,437 |
| 5. (Gain)/Loss for 2009-2010 [(A6) above] | 38,761,218 |
| 6. Final (Gain)/Loss Balance as of 6/30/10 $[(E4) + (E5)]$ | \$ 4,494,849,655 |

Gain and Loss Analysis (Continued)

CALIFORNIA HIGHWAY PATROL

A. Total (Gain)/Loss for the Year

| | |
|---------------------------------------------------------------------------------------------------|----------------------|
| 1. Unfunded Liability/(Surplus) as of 6/30/09 | \$ 1,901,271,161 |
| 2. Expected Payment on the Unfunded Liability during 2009-2010 | 92,632,568 |
| 3. Interest through 6/30/10 $[0.0775 \times (A1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (A2)]$ | 143,825,979 |
| 4. Expected Unfunded Liability as of 6/30/10 before all changes $[(A1)-(A2)+(A3)]$ | \$ 1,952,464,572 |
| 5. Actual Unfunded Liability as of 6/30/10 | <u>2,040,611,602</u> |
| 6. Total (Gain)/Loss for 2009-2010 $[(A4) - (A5)]$ | \$ 88,147,030 |

B. Contribution (Gain)/Loss for the Year

| | |
|-----------------------------------------------------------|--------------------|
| 1. Expected Contribution for 2009-2010 | \$ 252,497,993 |
| 2. Actual Contribution for 2009-2010 | <u>276,303,411</u> |
| 3. Contribution (Gain)/Loss for 2009-2010 $[(B1) - (B2)]$ | \$ (23,805,418) |

C. Asset (Gain)/Loss for the Year

| | |
|-----------------------------------------------------------------------------------------------------------------|----------------------|
| 1. Actuarial Value of Assets before receivables as of 6/30/09 | \$ 5,386,972,259 |
| 2. Contributions Received during 2009-2010 | 276,303,411 |
| 3. Benefits and Refunds Paid during 2009-2010 | (338,156,956) |
| 4. Expected Interest for 2009-2010 $[0.0775 \times (C1) + ((1+0.0775)^{\frac{1}{2}} - 1) \times ((C2) + (C3))]$ | 415,138,247 |
| 5. Receivables for AER and Past Service Benefits | <u>11,867,885</u> |
| 6. Expected Actuarial Value of Assets as of 6/30/10 $[(C1) + (C2) + (C3) + (C4) + (C5)]$ | \$ 5,752,124,846 |
| 7. Actual Actuarial Value of Assets as of 6/30/10 | <u>5,663,252,031</u> |
| 8. Asset (Gain)/Loss for 2009-2010 $[(C6) - (C7)]$ | \$ 88,872,815 |

D. Liability (Gain)/Loss for the Year

| | |
|---------------------------------------------------------------|-------------------|
| 1. Total (Gain)/Loss for 2009-2010 (A6) | \$ 88,147,030 |
| 2. Contribution (Gain)/Loss for 2009-2010 (B3) | (23,805,418) |
| 3. Asset (Gain)/Loss for 2009-2010 (C8) | <u>88,872,815</u> |
| 4. Liability (Gain)/Loss for 2009-2010 $[(D1) - (D2) - (D3)]$ | \$ 23,079,633 |

E. Development of the (Gain)/Loss Balance as of 6/30/10

| | |
|---------------------------------------------------------------------------------------------------|--------------------|
| 1. (Gain)/Loss Balance as of 6/30/09 | \$ 1,736,336,946 |
| 2. Payment Made on the Balance during 2009-2010 | 88,491,370 |
| 3. Interest through 6/30/10 $[0.0775 \times (E1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (E2)]$ | <u>131,201,054</u> |
| 4. Scheduled (Gain)/Loss Balance as of 6/30/10 $[(E1) - (E2) + (E3)]$ | \$ 1,779,046,630 |
| 5. (Gain)/Loss for 2009-2010 $[(A6) \text{ above}]$ | 88,147,030 |
| 6. Final (Gain)/Loss Balance as of 6/30/10 $[(E4) + (E5)]$ | \$ 1,867,193,660 |

Gain and Loss Analysis (Continued)

SCHOOLS

A. Total (Gain)/Loss for the Year

| | |
|-------------------------------------------------------------------------------------------|----------------------|
| 1. Unfunded Liability/(Surplus) as of 6/30/09 | \$ 5,817,323,127 |
| 2. Expected Payment on the Unfunded Liability during 2009-2010 | 272,875,034 |
| 3. Interest through 6/30/10 $[0.0775 \times (A1) - ((1 + 0.0775)^{1/2} - 1) \times (A2)]$ | 440,465,930 |
| 4. Expected Unfunded Liability as of 6/30/10 before all changes $[(A1) - (A2) + (A3)]$ | \$ 5,984,914,023 |
| 5. Actual Unfunded Liability as of 6/30/10 | <u>6,351,312,336</u> |
| 6. Total (Gain)/Loss for 2009-2010 $[(A4) - (A5)]$ | \$ 366,398,313 |

B. Contribution (Gain)/Loss for the Year

| | |
|-----------------------------------------------------------|----------------------|
| 1. Expected Contribution for 2009-2010 | \$ 1,797,682,644 |
| 2. Actual Contribution for 2009-2010 | <u>1,798,650,436</u> |
| 3. Contribution (Gain)/Loss for 2009-2010 $[(B1) - (B2)]$ | \$ (967,792) |

C. Asset (Gain)/Loss for the Year

| | |
|-----------------------------------------------------------------------------------------------------------|-----------------------|
| 1. Actuarial Value of Assets before receivables as of 6/30/09 | \$ 46,647,004,402 |
| 2. Contributions Received during 2009-2010 | 1,798,650,436 |
| 3. Benefits and Refunds Paid during 2009-2010 | (2,360,006,180) |
| 4. Expected Interest for 2009-2010 $[0.0775 \times (C1) + ((1 + 0.0775)^{1/2} - 1) \times ((C2) + (C3))]$ | 3,593,796,181 |
| 5. Receivables for AER and Past Service Benefits | <u>28,751,995</u> |
| 6. Expected Actuarial Value of Assets as of 6/30/10 $[(C1) + (C2) + (C3) + (C4) + (C5)]$ | \$ 49,708,196,834 |
| 7. Actual Actuarial Value of Assets as of 6/30/10 | <u>48,955,651,302</u> |
| 8. Asset (Gain)/Loss for 2009-2010 $[(C6) - (C7)]$ | \$ 752,545,532 |

D. Liability (Gain)/Loss for the Year

| | |
|---------------------------------------------------------------|--------------------|
| 1. Total (Gain)/Loss for 2009-2010 (A6) | \$ 366,398,313 |
| 2. Contribution (Gain)/Loss for 2009-2010 (B3) | (967,792) |
| 3. Asset (Gain)/Loss for 2009-2010 (C8) | <u>752,545,532</u> |
| 4. Liability (Gain)/Loss for 2009-2010 $[(D1) - (D2) - (D3)]$ | \$ (385,179,426) |

E. Development of the (Gain)/Loss Balance as of 6/30/10

| | |
|-------------------------------------------------------------------------------------------|--------------------|
| 1. (Gain)/Loss Balance as of 6/30/09 | \$ 2,080,038,037 |
| 2. Payment Made on the Balance during 2009-2010 | 80,054,355 |
| 3. Interest through 6/30/10 $[0.0775 \times (E1) - ((1 + 0.0775)^{1/2} - 1) \times (E2)]$ | <u>158,158,723</u> |
| 4. Scheduled (Gain)/Loss Balance as of 6/30/10 $[(E1) - (E2) + (E3)]$ | \$ 2,158,142,405 |
| 5. (Gain)/Loss for 2009-2010 $[(A6) \text{ above}]$ | 366,398,313 |
| 6. Final (Gain)/Loss Balance as of 6/30/10 $[(E4) + (E5)]$ | \$ 2,524,540,718 |

Development of Group Term Life Insurance Contributions

| | State Miscellaneous | State Industrial | State Safety | State Peace Officers and Firefighters | California Highway Patrol |
|------------------------------------------------------------------------------------------|------------------------|---------------------|------------------|---------------------------------------------|---------------------------------|
| 1. GTLI Market Value of Assets as of June 30, 2009 | \$ 8,389,340 | \$ (220,516) | \$ 447,770 | \$ 471,403 | \$ 585,067 |
| 2. Contributions Received for GTLI During Fiscal Year 2009-2010 | - | 478,326 | 961,578 | 722,022 | 23,413 |
| 3. Benefits Paid for GTLI During Fiscal Year 2009-2010 | (3,276,945) | (485,286) | (835,730) | (1,201,543) | (245,963) |
| 4. Investment Return During Fiscal Year 2009-2010 | 1,321,153 | 27,307 | 180,717 | 180,917 | 96,803 |
| 5. GTLI Market Value of Assets as of June 30, 2010 | \$ 6,433,548 | \$ (200,169) | \$ 754,335 | \$ 172,799 | \$ 459,320 |
| 6. Plan's Actuarial Value of Assets As a Percentage of Market Value of Assets | 128.200% | 127.355% | 125.730% | 127.561% | 127.630% |
| 7. GTLI Actuarial Value of Assets as of June 30, 2010 | \$ 8,247,809 | \$ (254,925) | \$ 948,425 | \$ 220,424 | \$ 586,230 |
| 8. Expected GTLI Benefit Payments for Fiscal Year 2010-2011 | \$ 7,656,162 | \$ 466,210 | \$ 1,951,167 | \$ 2,148,909 | \$ 370,581 |
| 9. Closed Group Projected Payroll for Fiscal Year 2010-2011 | \$ 9,942,505,468 | \$ 591,558,259 | \$ 1,882,202,163 | \$ 3,323,161,710 | \$ 739,961,514 |
| 10. Required GTLI Contribution Rate [(1.5 x (8) - 7, but not less than zero) / (9)] | 0.033% | 0.161% | 0.105% | 0.090% | 0.000% |
| 11. Projected Payroll for Contributions | \$ 10,514,717,151 | \$ 615,812,172 | \$ 2,004,053,851 | \$ 3,454,756,236 | \$ 767,416,016 |
| 12. Required GTLI Contribution for Fiscal Year 2011-2012* [(10) x (11)] | \$ 3,469,857 | \$ 991,458 | \$ 2,104,257 | \$ 3,109,281 | \$ - |

* The Required GTLI Contribution for Miscellaneous Tier 1 and Tier 2 is divided equally between the two groups as a percentage of payroll.

Reconciliation of Employer Contribution Rates

Change in Normal Cost Rate from 2010-2011 to 2011-2012 for the Retirement Program

| | State Miscellaneous | | State | State | State Peace | California | Schools |
|-------------------------------------------------|---------------------|---------|------------|---------|------------------------------|-------------------|---------|
| | Tier 1 | Tier 2 | Industrial | Safety | Officers and Firefighters | Highway Patrol | |
| 2010-2011 Normal Cost Rate | 9.862% | 9.562% | 13.623% | 16.439% | 18.363% | 15.400% | 7.173% |
| Effect of Changes in Employee Contribution Rate | -2.073% | -2.867% | -2.925% | -3.701% | -2.302% | -1.828% | 0.000% |
| Effect of (Gain)/Loss | 0.022% | -0.034% | -0.157% | -0.384% | 0.049% | -0.039% | -0.041% |
| 2011-2012 Normal Cost Rate | 7.811% | 6.661% | 10.541% | 12.354% | 16.110% | 13.533% | 7.132% |

Change in Unfunded Liability Amortization Rate from 2010-2011 to 2011-2012 for the Retirement Program

| | State Miscellaneous | | State | State | State Peace | California | Schools |
|---------------------------------------------------|---------------------|---------|------------|---------|------------------------------|-------------------|---------|
| | Tier 1 | Tier 2 | Industrial | Safety | Officers and Firefighters | Highway Patrol | |
| 2010-2011 Rate to Amortize the Unfunded Liability | 10.060% | 10.060% | 4.390% | 4.109% | 10.447% | 17.225% | 3.534% |
| Effect of (Gain)/Loss | 0.271% | 0.271% | -0.158% | -0.140% | 0.768% | 0.506% | 0.257% |
| 2011-2012 Rate to Amortize the Unfunded Liability | 10.331% | 10.331% | 4.232% | 3.969% | 11.215% | 17.731% | 3.791% |

Reconciliation of Employer Contribution Rates (Continued)

| | Change in Group Term Life Rate from 2010-2011 to 2011-2012 | | | | | | |
|--------------------------------|-------------------------------------------------------------------|---------------|-------------------|---------------|----------------------------------|-----------------------|----------------|
| | State Miscellaneous | | State | State | State Peace | California | Schools |
| | Tier 1 | Tier 2 | Industrial | Safety | Officers and Firefighters | Highway Patrol | |
| 2010-2011 Group Term Life Rate | 0.000% | 0.000% | 0.170% | 0.124% | 0.077% | 0.000% | N/A |
| Effect of (Gain)/Loss | 0.033% | 0.033% | -0.009% | -0.019% | 0.013% | 0.000% | N/A |
| 2011-2012 Group Term Life Rate | 0.033% | 0.033% | 0.161% | 0.105% | 0.090% | 0.000% | N/A |

| | Change in Total Rate from 2010-2011 to 2011-2012 | | | | | | |
|-------------------------------------------------|---------------------------------------------------------|---------------|-------------------|---------------|----------------------------------|-----------------------|----------------|
| | State Miscellaneous | | State | State | State Peace | California | Schools |
| | Tier 1 | Tier 2 | Industrial | Safety | Officers and Firefighters | Highway Patrol | |
| 2010-2011 Employer Rates | 19.922% | 19.622% | 18.183% | 20.672% | 28.887% | 32.625% | 10.707% |
| Effect of Changes in Employee Contribution Rate | -2.073% | -2.867% | -2.925% | -3.701% | -2.302% | -1.828% | 0.000% |
| Effect of Additional Contribution | 0.000% | 0.000% | N/A | N/A | N/A | 0.000% | N/A |
| Effect of (Gain)/Loss | 0.326% | 0.270% | -0.324% | -0.543% | 0.830% | 0.467% | 0.216% |
| 2011-2012 Employer Rates | 18.175% | 17.025% | 14.934% | 16.428% | 27.415% | 31.264% | 10.923% |

Reconciliation of Employer Contributions

| Change in Normal Cost Contribution from 2010-2011 to 2011-2012 for the Retirement Program | | | | | | | |
|-------------------------------------------------------------------------------------------|---------------------|--------------|---------------------|-----------------|---------------------------------------------|---------------------------------|---------------|
| | State Miscellaneous | | State Industrial | State Safety | State Peace Officers and Firefighters | California Highway Patrol | Schools |
| | Tier 1 | Tier 2 | | | | | |
| 2010-2011 Normal Cost Contribution | \$992,703,647 | \$38,153,075 | \$78,171,416 | \$336,661,146 | \$659,565,756 | \$112,970,099 | \$796,902,967 |
| Effect of Change in Payroll | 6,574,649 | (1,616,279) | 5,720,676 | (7,214,734) | (25,168,869) | 5,211,968 | 12,455,186 |
| Effect of Change in Employee Contributions | (210,023,574) | (10,954,925) | (18,010,220) | (74,178,278) | (79,511,344) | (14,027,354) | - |
| Effect of (Gain)/Loss | 2,229,175 | (129,915) | (966,825) | (7,695,566) | 1,692,831 | (299,293) | (4,626,192) |
| 2011-2012 Normal Cost Contribution | \$791,483,897 | \$25,451,956 | \$64,915,047 | \$247,572,568 | \$556,578,374 | \$103,855,420 | \$804,731,961 |

| Change in Unfunded Liability Amortization Contribution from 2010-2011 to 2011-2012 for the Retirement Program | | | | | | | |
|---------------------------------------------------------------------------------------------------------------|---------------------|--------------|---------------------|-----------------|---------------------------------------------|---------------------------------|---------------|
| | State Miscellaneous | | State Industrial | State Safety | State Peace Officers and Firefighters | California Highway Patrol | Schools |
| | Tier 1 | Tier 2 | | | | | |
| 2010-2011 Amortization of the Unfunded Liability | \$1,012,683,152 | \$40,142,071 | \$25,190,325 | \$84,142,246 | \$375,254,664 | \$126,360,162 | \$392,579,802 |
| Effect of Progression of Amortization of Prior Unfunded Liability | 34,750,123 | (643,022) | 680,679 | 1,955,821 | 7,973,699 | 4,129,902 | 11,349,239 |
| Effect of (Gain)/Loss | (612,449) | (23,096) | 188,606 | (6,547,493) | 4,212,047 | 5,581,605 | 23,825,935 |
| 2011-2012 Amortization of the Unfunded Liability | \$1,046,820,826 | \$39,475,953 | \$26,059,610 | \$79,550,574 | \$387,440,410 | \$136,071,669 | \$427,754,976 |

Reconciliation of Employer Contributions (Continued)

| | Change in Group Term Life Contribution from 2010-2011 to 2011-2012 | | | | | | |
|----------------------------------------|--------------------------------------------------------------------|-----------|------------------|--------------|---------------------------------------|---------------------------|---------|
| | State Miscellaneous | | State Industrial | State Safety | State Peace Officers and Firefighters | California Highway Patrol | Schools |
| | Tier 1 | Tier 2 | | | | | |
| 2010-2011 Group Term Life Contribution | \$0 | \$0 | \$975,493 | \$2,539,448 | \$2,765,701 | \$0 | N/A |
| Effect of Change in Payroll | - | - | 71,388 | (54,421) | (105,538) | - | N/A |
| Effect of (Gain)/Loss | 3,343,762 | 126,094 | (55,423) | (380,770) | 449,118 | - | N/A |
| 2011-2012 Group Term Life Contribution | \$3,343,762 | \$126,094 | \$991,458 | \$2,104,257 | \$3,109,281 | \$0 | N/A |

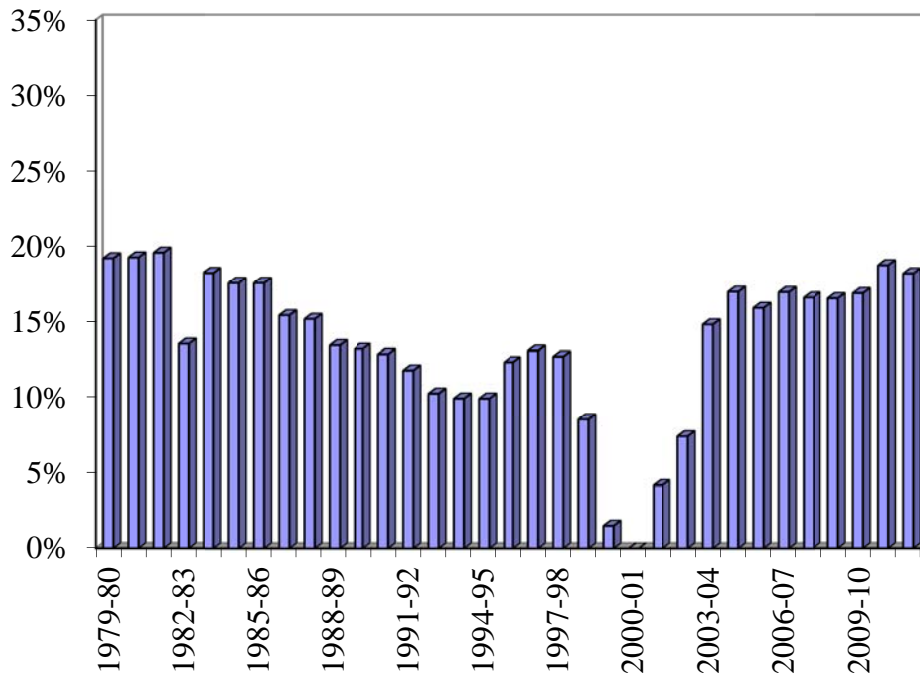
| | Change in Total Contribution from 2010-2011 to 2011-2012 | | | | | | |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------|--------------|------------------|---------------|---------------------------------------|---------------------------|-----------------|
| | State Miscellaneous | | State Industrial | State Safety | State Peace Officers and Firefighters | California Highway Patrol | Schools |
| | Tier 1 | Tier 2 | | | | | |
| 2010-2011 Employer Contribution | \$2,005,386,799 | \$78,295,146 | \$104,337,234 | \$423,342,840 | \$1,037,586,121 | \$239,330,261 | \$1,189,482,769 |
| Effect of Change in Payroll and Progression of Amortization of Prior Unfunded Liability | 41,324,772 | (2,259,301) | 6,472,743 | (5,313,334) | (17,300,708) | 9,341,870 | 23,804,425 |
| Effect of Change in Employee Contributions | (210,023,574) | (10,954,925) | (18,010,220) | (74,178,278) | (79,511,344) | (14,027,354) | 0 |
| Effect of (Gain)/Loss | 4,960,488 | (26,917) | (833,642) | (14,623,829) | 6,353,996 | 5,282,312 | 19,199,743 |
| 2011-2012 Employer Contribution | \$1,841,648,485 | \$65,054,003 | \$91,966,115 | \$329,227,399 | \$947,128,065 | \$239,927,089 | \$1,232,486,937 |

Employer Contribution Rate History

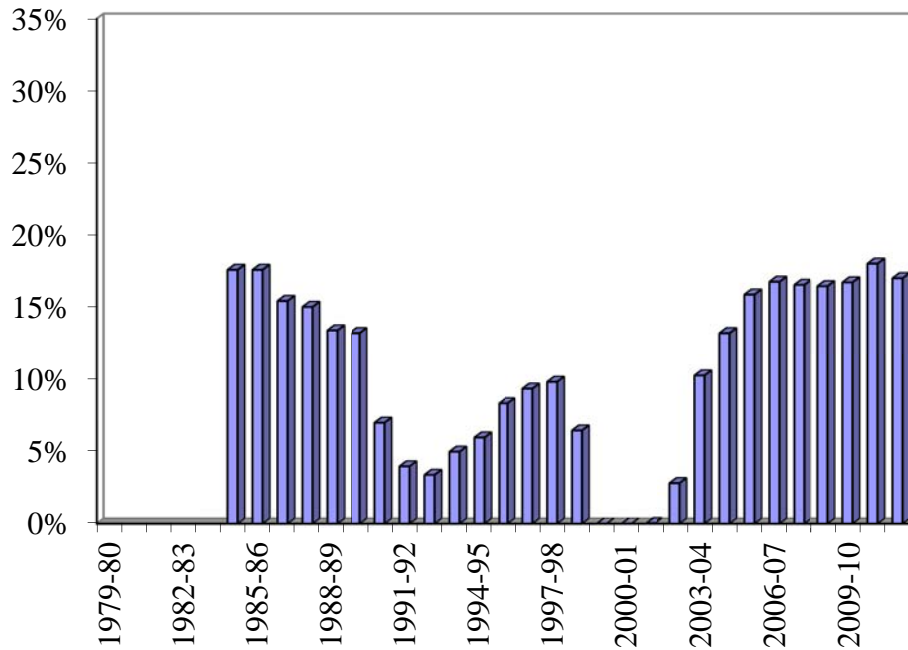
The table below provides a history of the contribution rates for the various State plans and the Schools plan. In cases where the contribution rate changed during the course of a fiscal year, the entry shown is the weighted average of the rates effective during the fiscal year.

| Fiscal Year | State Miscellaneous | | State | State | State Peace | California | Schools |
|----------------|---------------------|---------|------------|---------|------------------------------|-------------------|---------|
| | Tier 1 | Tier 2 | Industrial | Safety | Officers and Firefighters | Highway Patrol | |
| 1979-80 | 19.188% | | 20.040% | 20.106% | | 31.373% | 12.515% |
| 1980-81 | 19.247% | | 20.047% | 20.145% | | 31.440% | 13.119% |
| 1981-82 | 19.563% | | 20.263% | 20.409% | | 31.995% | 13.020% |
| 1982-83 | 13.559% | | 15.013% | 16.381% | | 19.555% | 12.045% |
| 1983-84 | 18.262% | | 18.884% | 20.615% | | 24.306% | 12.378% |
| 1984-85 | 17.604% | 17.604% | 19.976% | 20.518% | | 25.292% | 12.378% |
| 1985-86 | 17.604% | 17.604% | 19.749% | 20.518% | 24.310% | 24.868% | 11.969% |
| 1986-87 | 15.450% | 15.450% | 16.638% | 22.522% | 20.578% | 22.150% | 11.015% |
| 1987-88 | 15.202% | 15.038% | 15.332% | 19.229% | 17.171% | 20.859% | 9.718% |
| 1988-89 | 13.464% | 13.413% | 16.626% | 17.296% | 16.431% | 18.453% | 8.454% |
| 1989-90 | 13.224% | 13.218% | 16.783% | 17.424% | 16.200% | 18.318% | 8.210% |
| 1990-91 | 12.878% | 6.975% | 16.720% | 17.916% | 15.702% | 18.090% | 7.282% |
| 1991-92 | 11.804% | 3.986% | 13.399% | 17.376% | 17.386% | 21.721% | 8.162% |
| 1992-93 | 10.266% | 3.391% | 11.995% | 15.698% | 15.560% | 17.074% | 7.273% |
| 1993-94 | 9.939% | 5.005% | 11.765% | 15.485% | 15.202% | 16.940% | 7.066% |
| 1994-95 | 9.934% | 5.947% | 10.597% | 13.927% | 12.817% | 15.552% | 3.849% |
| 1995-96 | 12.350% | 8.326% | 8.981% | 14.228% | 14.350% | 14.778% | 6.979% |
| 1996-97 | 13.106% | 9.345% | 9.260% | 14.656% | 15.401% | 15.851% | 7.787% |
| 1997-98 | 12.721% | 9.822% | 9.048% | 13.754% | 15.270% | 15.515% | 6.172% |
| 1998-99 | 8.541% | 6.437% | 4.583% | 9.440% | 9.591% | 13.541% | 0.000% |
| 1999-00 | 1.491% | 0.000% | 0.026% | 7.487% | 0.000% | 13.345% | 0.000% |
| 2000-01 | 0.000% | 0.000% | 0.026% | 6.808% | 2.729% | 13.711% | 0.000% |
| 2001-02 | 4.166% | 0.036% | 0.350% | 12.923% | 9.638% | 16.897% | 0.000% |
| 2002-03 | 7.413% | 2.813% | 2.858% | 17.055% | 13.925% | 23.076% | 2.894% |
| 2003-04 | 14.843% | 10.265% | 11.099% | 21.930% | 20.325% | 32.653% | 10.420% |
| 2004-05 | 17.022% | 13.216% | 16.386% | 20.773% | 23.841% | 33.434% | 9.952% |
| 2005-06 | 15.942% | 15.890% | 17.147% | 19.026% | 23.563% | 26.396% | 9.116% |
| 2006-07 | 16.997% | 16.778% | 17.861% | 19.294% | 24.505% | 31.463% | 9.124% |
| 2007-08 | 16.633% | 16.565% | 17.345% | 18.835% | 25.552% | 32.212% | 9.306% |
| 2008-09 | 16.574% | 16.470% | 17.236% | 18.411% | 26.064% | 32.149% | 9.428% |
| 2009-10 | 16.917% | 16.737% | 17.251% | 18.099% | 25.848% | 28.438% | 9.709% |
| 2010-11 | 18.725% | 18.032% | 16.433% | 18.187% | 28.722% | 31.291% | 10.707% |
| 2011-12 | 18.175% | 17.025% | 14.934% | 16.428% | 27.415% | 31.264% | 10.923% |

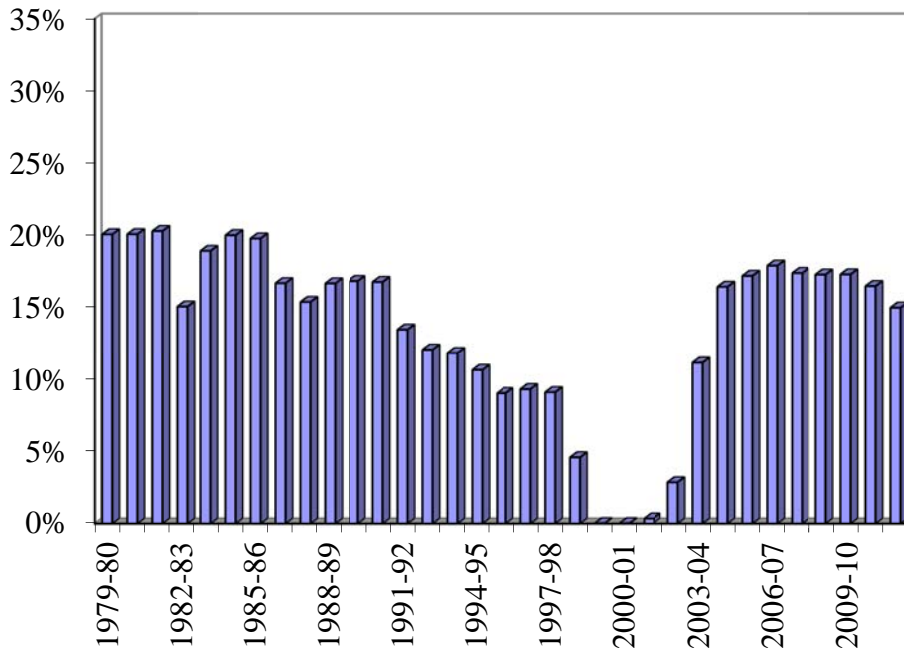
State Miscellaneous Tier 1 Rates



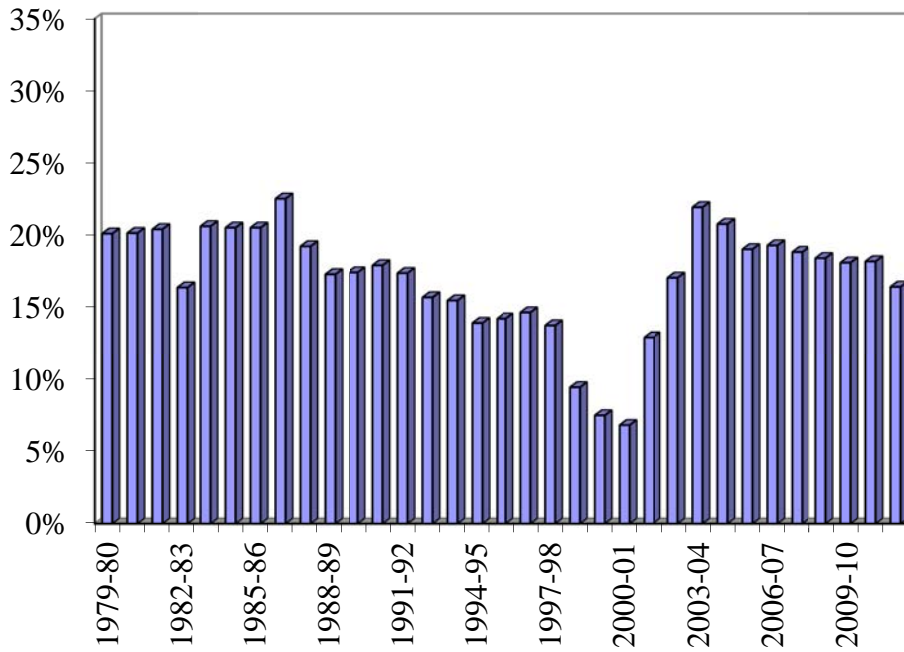
State Miscellaneous Tier 2 Rates



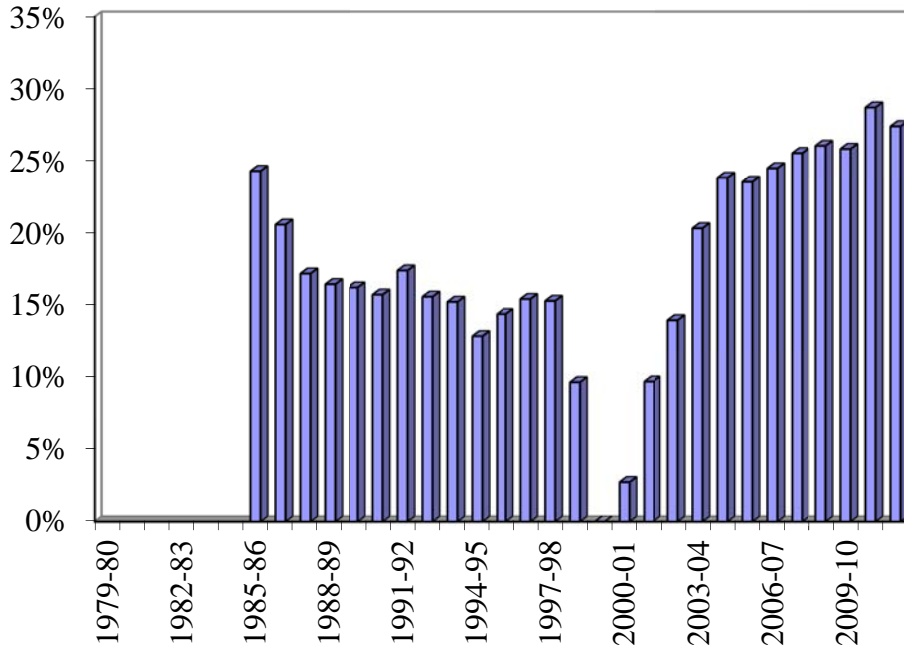
State Industrial Rates



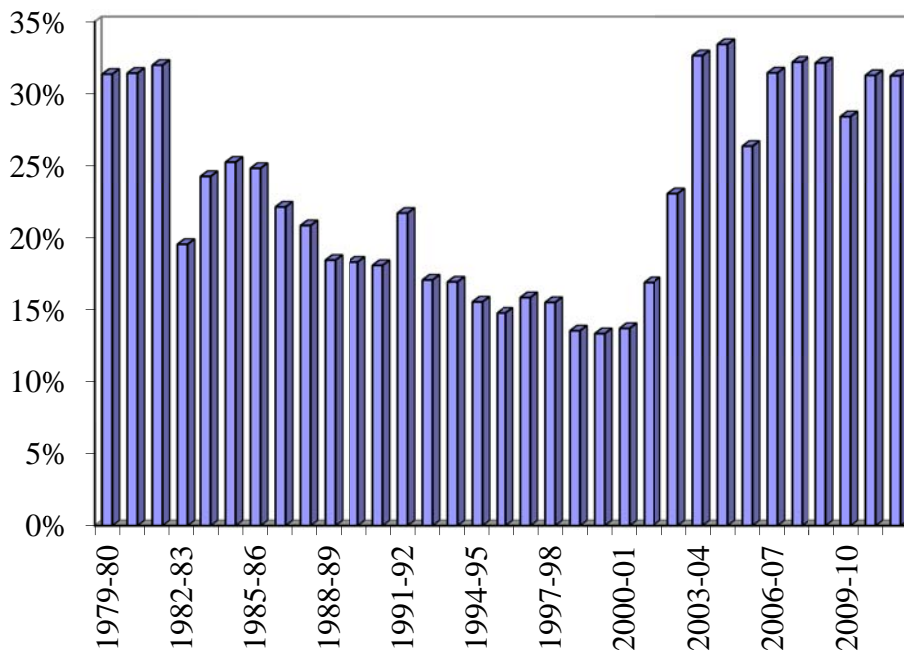
State Safety Rates



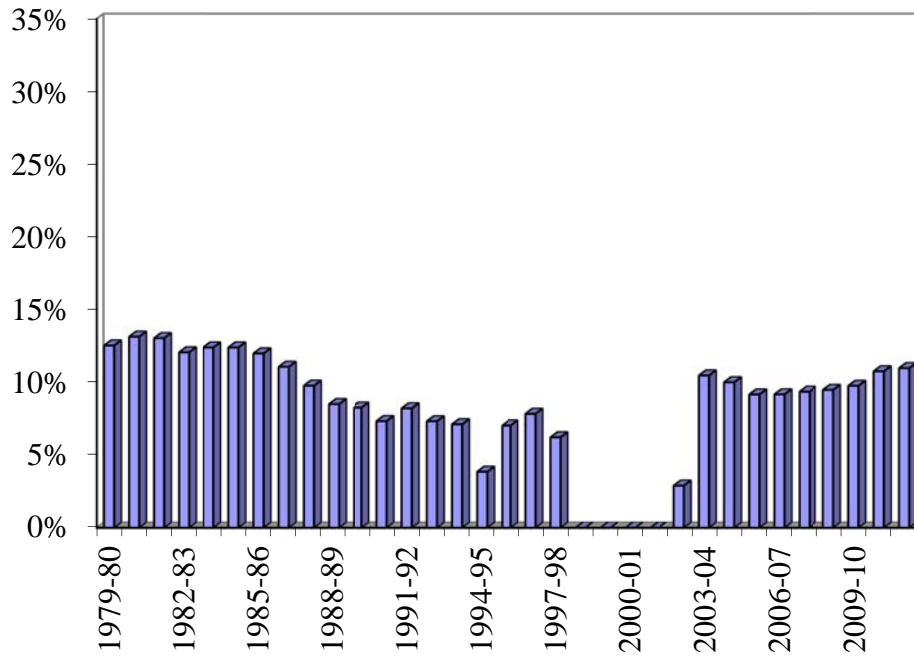
State Peace Officers and Firefighters Rates



California Highway Patrol Rates



Schools Rates

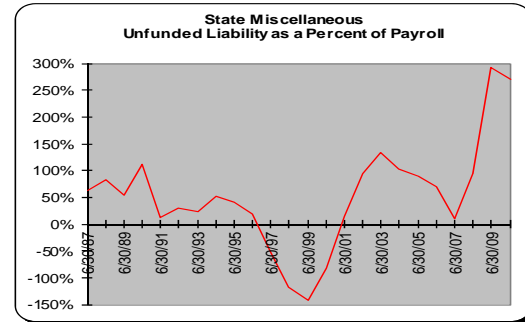
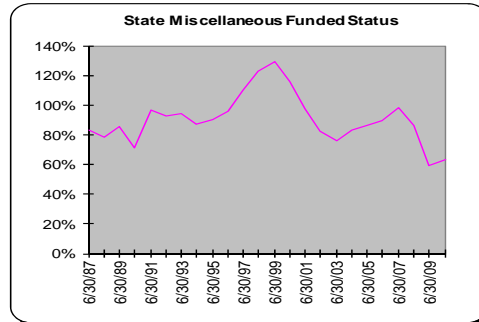
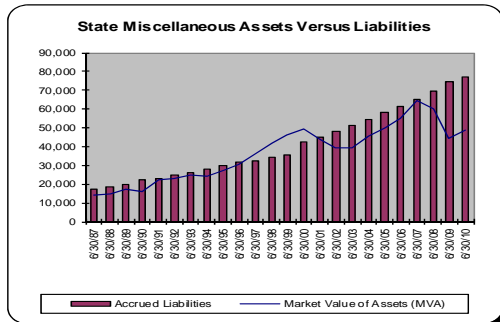


History of Funded Status and Funding Progress

Shown below is the history of funding progress for the plans. One could view the trend in the ratio of the unfunded liability to covered payroll as a measure of the ability of the employer to address the unfunded liability.

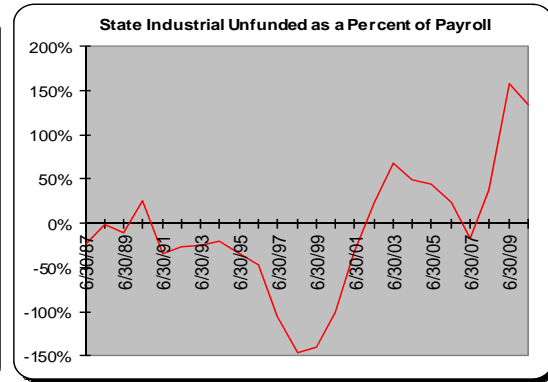
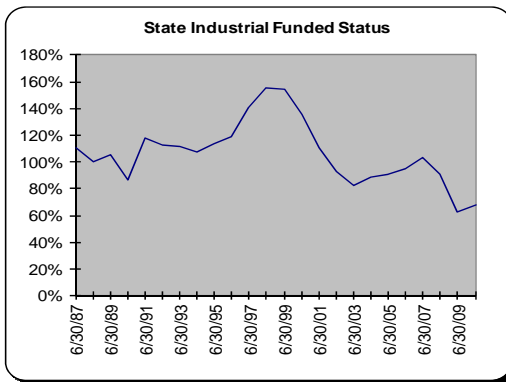
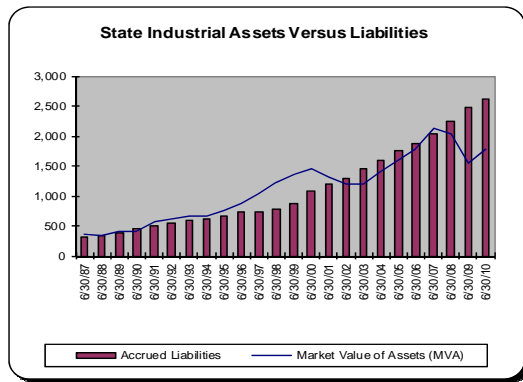
State Miscellaneous (Dollars in Millions)

| Valuation Date | Actuarial Accrued Liabilities | Market Value of Assets (MVA) | Funded Status (MVA) | Unfunded Liabilities/ (Surplus) (MVA) | Projected Payroll for Contribution | Unfunded/ (Surplus) as a % of Payroll |
|----------------|-------------------------------|------------------------------|---------------------|---------------------------------------|------------------------------------|---------------------------------------|
| 6/30/87 | \$17,216.59 | \$14,341.10 | 83.3% | \$2,875.49 | \$4,632.96 | 62.1% |
| 6/30/88 | 18,551.55 | 14,534.21 | 78.3% | \$4,017.34 | 4,912.26 | 81.8% |
| 6/30/89 | 19,971.99 | 17,132.13 | 85.8% | \$2,839.87 | 5,348.02 | 53.1% |
| 6/30/90 | 22,441.71 | 16,026.60 | 71.4% | \$6,415.10 | 5,815.86 | 110.3% |
| 6/30/91 | 23,152.67 | 22,441.42 | 96.9% | \$711.24 | 6,302.82 | 11.3% |
| 6/30/92 | 24,887.16 | 22,978.69 | 92.3% | \$1,908.47 | 6,242.74 | 30.6% |
| 6/30/93 | 26,162.26 | 24,714.91 | 94.5% | \$1,447.35 | 6,310.21 | 22.9% |
| 6/30/94 | 27,820.55 | 24,278.25 | 87.3% | \$3,542.30 | 6,826.52 | 51.9% |
| 6/30/95 | 29,959.51 | 27,087.75 | 90.4% | \$2,871.76 | 7,009.46 | 41.0% |
| 6/30/96 | 31,742.11 | 30,451.89 | 95.9% | \$1,290.22 | 6,881.12 | 18.8% |
| 6/30/97 | 32,557.43 | 35,958.74 | 110.4% | (\$3,401.31) | 6,623.62 | -51.4% |
| 6/30/98 | 34,169.38 | 42,011.09 | 122.9% | (\$7,841.72) | 6,592.21 | -119.0% |
| 6/30/99 | 35,771.22 | 46,176.43 | 129.1% | (\$10,405.22) | 7,332.11 | -141.9% |
| 6/30/00 | 42,386.05 | 49,207.61 | 116.1% | (\$6,821.57) | 8,246.46 | -82.7% |
| 6/30/01 | 45,261.49 | 43,933.20 | 97.1% | \$1,328.30 | 8,815.88 | 15.1% |
| 6/30/02 | 48,118.21 | 39,530.08 | 82.2% | \$8,588.13 | 9,238.43 | 93.0% |
| 6/30/03 | 51,558.91 | 39,324.37 | 76.3% | \$12,234.54 | 9,207.49 | 132.9% |
| 6/30/04 | 54,700.51 | 45,459.67 | 83.1% | \$9,240.84 | 9,078.96 | 101.8% |
| 6/30/05 | 58,266.63 | 50,230.53 | 86.2% | \$8,036.10 | 8,896.91 | 90.3% |
| 6/30/06 | 61,298.78 | 55,050.67 | 89.8% | \$6,248.11 | 8,956.47 | 69.8% |
| 6/30/07 | 65,341.72 | 64,441.85 | 98.6% | \$899.87 | 9,529.56 | 9.4% |
| 6/30/08 | 69,647.97 | 59,978.56 | 86.1% | \$9,669.41 | 10,241.26 | 94.4% |
| 6/30/09 | 74,762.62 | 44,093.66 | 59.0% | \$30,668.96 | 10,464.95 | 293.1% |
| 6/30/10 | 76,980.43 | 48,645.91 | 63.2% | \$28,334.52 | 10,514.72 | 269.5% |



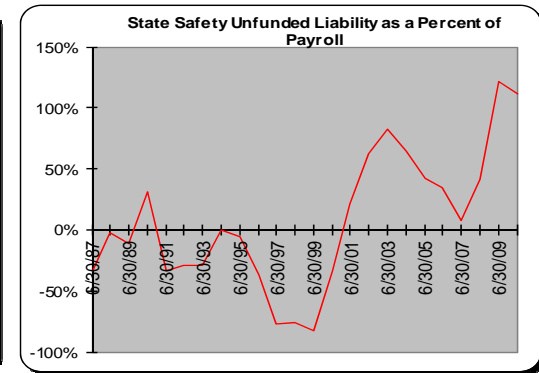
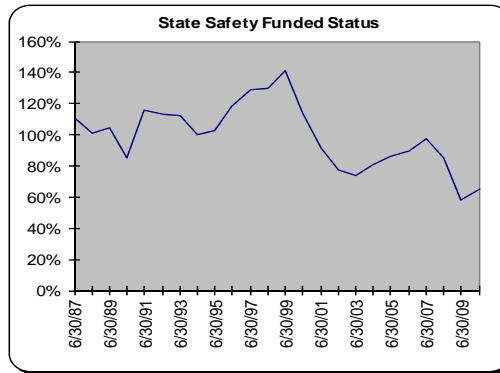
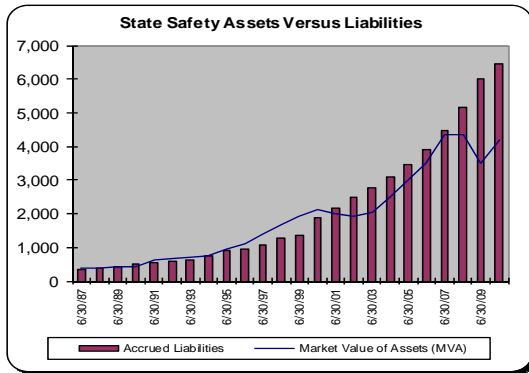
State Industrial (Dollars in Millions)

| Valuation Date | Actuarial Accrued Liabilities | Market Value of Assets (MVA) | Funded Status (MVA) | Unfunded Liabilities/ (Surplus) (MVA) | Projected Payroll for Contribution | Unfunded/ (Surplus) as a % of Payroll |
|----------------|-------------------------------|------------------------------|---------------------|---------------------------------------|------------------------------------|---------------------------------------|
| 6/30/87 | \$315.86 | \$350.09 | 110.8% | (\$34.22) | \$146.17 | -23.4% |
| 6/30/88 | 344.81 | \$347.47 | 100.8% | (\$2.66) | 166.90 | -1.6% |
| 6/30/89 | 386.48 | \$405.87 | 105.0% | (\$19.39) | 191.17 | -10.1% |
| 6/30/90 | 459.94 | \$401.13 | 87.2% | \$58.81 | 224.06 | 26.2% |
| 6/30/91 | 492.36 | \$579.06 | 117.6% | (\$86.71) | 256.41 | -33.8% |
| 6/30/92 | 539.59 | \$609.95 | 113.0% | (\$70.36) | 268.41 | -26.2% |
| 6/30/93 | 596.89 | \$667.52 | 111.8% | (\$70.63) | 278.37 | -25.4% |
| 6/30/94 | 618.92 | \$665.17 | 107.5% | (\$46.25) | 235.06 | -19.7% |
| 6/30/95 | 659.45 | \$750.80 | 113.9% | (\$91.35) | 270.74 | -33.7% |
| 6/30/96 | 721.31 | \$861.49 | 119.4% | (\$140.18) | 293.77 | -47.7% |
| 6/30/97 | 740.68 | \$1,042.38 | 140.7% | (\$301.69) | 284.64 | -106.0% |
| 6/30/98 | 789.88 | \$1,226.17 | 155.2% | (\$436.29) | 296.55 | -147.1% |
| 6/30/99 | 880.05 | \$1,359.58 | 154.5% | (\$479.53) | 343.75 | -139.5% |
| 6/30/00 | 1,078.75 | \$1,463.21 | 135.6% | (\$384.45) | 379.44 | -101.3% |
| 6/30/01 | 1,196.07 | \$1,325.06 | 110.8% | (\$128.99) | 390.17 | -33.1% |
| 6/30/02 | 1,294.63 | \$1,199.71 | 92.7% | \$94.92 | 389.72 | 24.4% |
| 6/30/03 | 1,462.07 | \$1,200.75 | 82.1% | \$261.32 | 381.30 | 68.5% |
| 6/30/04 | 1,601.67 | \$1,414.67 | 88.3% | \$187.01 | 377.65 | 49.5% |
| 6/30/05 | 1,753.85 | \$1,586.13 | 90.4% | \$167.72 | 379.50 | 44.2% |
| 6/30/06 | 1,870.23 | \$1,776.30 | 95.0% | \$93.93 | 381.08 | 24.6% |
| 6/30/07 | 2,043.85 | \$2,119.42 | 103.7% | (\$75.56) | 440.39 | -17.2% |
| 6/30/08 | 2,234.92 | \$2,033.97 | 91.0% | \$200.95 | 521.55 | 38.5% |
| 6/30/09 | 2,467.30 | \$1,555.77 | 63.1% | \$911.53 | 573.82 | 158.9% |
| 6/30/10 | 2,614.48 | \$1,784.90 | 68.3% | \$829.58 | 615.81 | 134.7% |



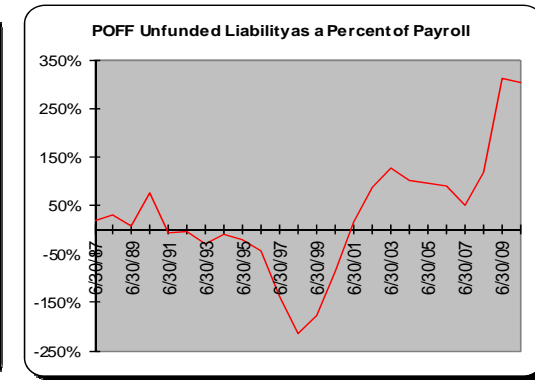
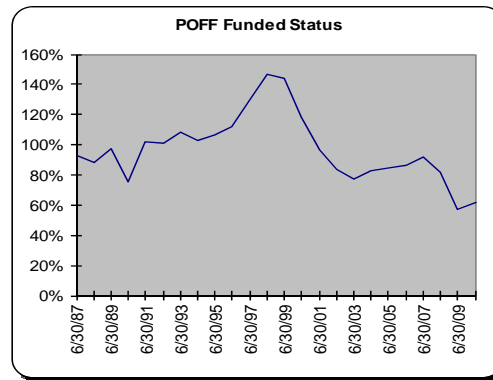
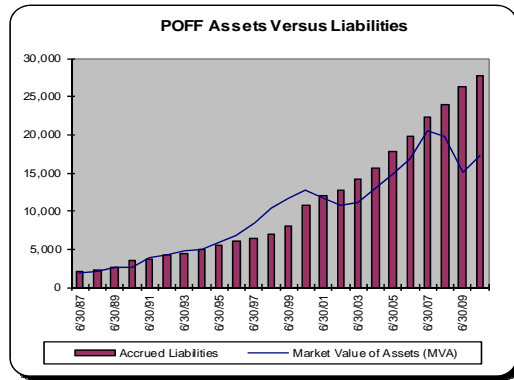
State Safety
(Dollars in Millions)

| Valuation Date | Actuarial Accrued Liabilities | Market Value of Assets (MVA) | Funded Status (MVA) | Unfunded Liabilities/ (Surplus) (MVA) | Projected Payroll for Contribution | Unfunded/ (Surplus) as a % of Payroll |
|----------------|-------------------------------|------------------------------|---------------------|---------------------------------------|------------------------------------|---------------------------------------|
| 6/30/87 | \$349.50 | \$387.09 | 110.8% | (\$37.59) | \$112.68 | -33.4% |
| 6/30/88 | 369.94 | \$372.43 | 100.7% | (\$2.49) | 133.51 | -1.9% |
| 6/30/89 | 420.00 | \$440.28 | 104.8% | (\$20.28) | 184.89 | -11.0% |
| 6/30/90 | 498.73 | \$425.64 | 85.3% | \$73.09 | 231.79 | 31.5% |
| 6/30/91 | 548.01 | \$636.70 | 116.2% | (\$88.70) | 262.42 | -33.8% |
| 6/30/92 | 602.36 | \$679.63 | 112.8% | (\$77.27) | 262.99 | -29.4% |
| 6/30/93 | 644.22 | \$721.61 | 112.0% | (\$77.39) | 265.34 | -29.2% |
| 6/30/94 | 761.10 | \$761.74 | 100.1% | (\$0.64) | 385.40 | -0.2% |
| 6/30/95 | 913.75 | \$936.36 | 102.5% | (\$22.61) | 408.03 | -5.5% |
| 6/30/96 | 946.58 | \$1,122.60 | 118.6% | (\$176.02) | 473.79 | -37.2% |
| 6/30/97 | 1,086.00 | \$1,403.64 | 129.2% | (\$317.64) | 413.78 | -76.8% |
| 6/30/98 | 1,285.33 | \$1,671.77 | 130.1% | (\$386.45) | 510.51 | -75.7% |
| 6/30/99 | 1,363.94 | \$1,927.29 | 141.3% | (\$563.35) | 681.63 | -82.6% |
| 6/30/00 | 1,864.69 | \$2,121.78 | 113.8% | (\$257.09) | 759.19 | -33.9% |
| 6/30/01 | 2,179.43 | \$1,999.67 | 91.8% | \$179.76 | 850.00 | 21.1% |
| 6/30/02 | 2,476.47 | \$1,925.90 | 77.8% | \$550.56 | 875.83 | 62.9% |
| 6/30/03 | 2,788.06 | \$2,049.31 | 73.5% | \$738.75 | 890.67 | 82.9% |
| 6/30/04 | 3,087.45 | \$2,508.66 | 81.3% | \$578.79 | 889.30 | 65.1% |
| 6/30/05 | 3,472.58 | \$2,999.91 | 86.4% | \$472.67 | 1,106.95 | 42.7% |
| 6/30/06 | 3,906.96 | \$3,486.19 | 89.2% | \$420.77 | 1,225.72 | 34.3% |
| 6/30/07 | 4,467.41 | \$4,341.68 | 97.2% | \$125.73 | 1,530.40 | 8.2% |
| 6/30/08 | 5,146.24 | \$4,364.99 | 84.8% | \$781.25 | 1,913.63 | 40.8% |
| 6/30/09 | 6,005.61 | \$3,514.11 | 58.5% | \$2,491.50 | 2,047.94 | 121.7% |
| 6/30/10 | 6,435.65 | \$4,196.17 | 65.2% | \$2,239.48 | 2,004.05 | 111.7% |



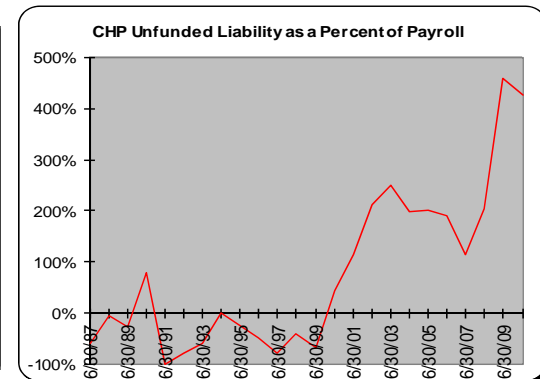
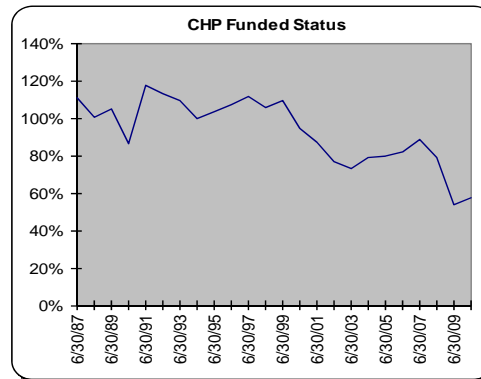
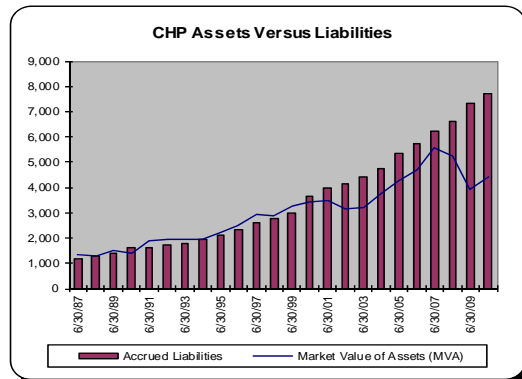
State Peace Officers and Firefighters (Dollars in Millions)

| Valuation Date | Actuarial Accrued Liabilities | Market Value of Assets (MVA) | Funded Status (MVA) | Unfunded Liabilities/ (Surplus) (MVA) | Projected Payroll for Contribution | Unfunded/ (Surplus) as a % of Payroll |
|----------------|-------------------------------|------------------------------|---------------------|---------------------------------------|------------------------------------|---------------------------------------|
| 6/30/87 | \$2,046.60 | \$1,902.78 | 93.0% | \$143.82 | \$791.32 | 18.2% |
| 6/30/88 | 2,323.22 | \$2,060.31 | 88.7% | \$262.91 | 892.79 | 29.4% |
| 6/30/89 | 2,664.98 | \$2,594.85 | 97.4% | \$70.13 | 1,001.85 | 7.0% |
| 6/30/90 | 3,439.63 | \$2,585.12 | 75.2% | \$854.51 | 1,150.54 | 74.3% |
| 6/30/91 | 3,773.05 | \$3,854.02 | 102.1% | (\$80.97) | 1,319.96 | -6.1% |
| 6/30/92 | 4,193.43 | \$4,232.07 | 100.9% | (\$38.63) | 1,332.15 | -2.9% |
| 6/30/93 | 4,475.70 | \$4,867.29 | 108.7% | (\$391.58) | 1,347.85 | -29.1% |
| 6/30/94 | 4,883.90 | \$5,031.67 | 103.0% | (\$147.77) | 1,504.71 | -9.8% |
| 6/30/95 | 5,552.00 | \$5,892.10 | 106.1% | (\$340.10) | 1,592.42 | -21.4% |
| 6/30/96 | 6,128.81 | \$6,860.00 | 111.9% | (\$731.19) | 1,653.57 | -44.2% |
| 6/30/97 | 6,494.67 | \$8,435.81 | 129.9% | (\$1,941.14) | 1,409.62 | -137.7% |
| 6/30/98 | 7,015.67 | \$10,321.52 | 147.1% | (\$3,305.85) | 1,540.44 | -214.6% |
| 6/30/99 | 8,091.24 | \$11,684.90 | 144.4% | (\$3,593.66) | 2,017.76 | -178.1% |
| 6/30/00 | 10,720.41 | \$12,667.55 | 118.2% | (\$1,947.13) | 2,227.34 | -87.4% |
| 6/30/01 | 11,949.04 | \$11,574.35 | 96.9% | \$374.70 | 2,303.58 | 16.3% |
| 6/30/02 | 12,826.58 | \$10,731.13 | 83.7% | \$2,095.45 | 2,406.97 | 87.1% |
| 6/30/03 | 14,219.50 | \$11,037.85 | 77.6% | \$3,181.65 | 2,506.75 | 126.9% |
| 6/30/04 | 15,668.42 | \$12,998.58 | 83.0% | \$2,669.85 | 2,603.55 | 102.5% |
| 6/30/05 | 17,753.24 | \$14,984.69 | 84.4% | \$2,768.54 | 2,860.33 | 96.8% |
| 6/30/06 | 19,737.05 | \$16,972.81 | 86.0% | \$2,764.24 | 3,057.73 | 90.4% |
| 6/30/07 | 22,249.94 | \$20,538.69 | 92.3% | \$1,711.25 | 3,420.18 | 50.0% |
| 6/30/08 | 24,004.31 | \$19,734.05 | 82.2% | \$4,270.26 | 3,588.76 | 119.0% |
| 6/30/09 | 26,291.09 | \$15,083.09 | 57.4% | \$11,208.00 | 3,591.82 | 312.0% |
| 6/30/10 | 27,711.53 | \$17,199.10 | 62.1% | \$10,512.44 | 3,454.76 | 304.3% |



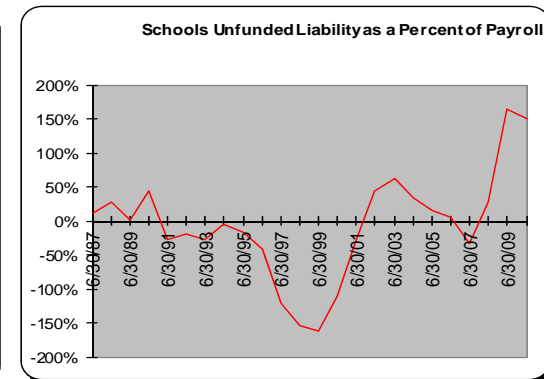
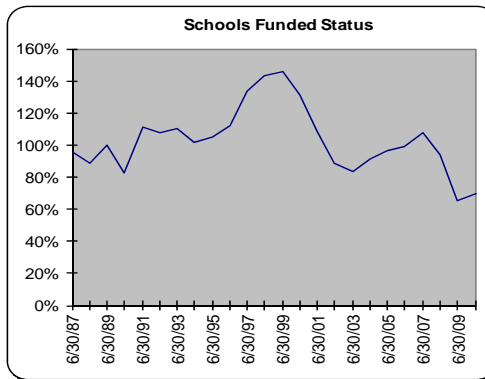
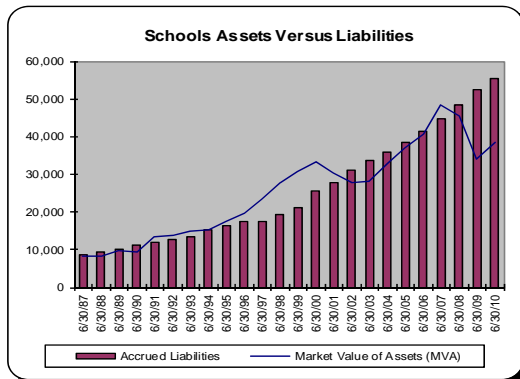
California Highway Patrol (Dollars in Millions)

| Valuation Date | Actuarial Accrued Liabilities | Market Value of Assets (MVA) | Funded Status (MVA) | Unfunded Liabilities/ (Surplus) (MVA) | Projected Payroll for Contribution | Unfunded/ (Surplus) as a % of Payroll |
|----------------|-------------------------------|------------------------------|---------------------|---------------------------------------|------------------------------------|---------------------------------------|
| 6/30/87 | \$1,196.54 | \$1,325.90 | 110.8% | (\$129.35) | \$216.42 | -59.8% |
| 6/30/88 | 1,290.70 | \$1,300.19 | 100.7% | (\$9.49) | 226.20 | -4.2% |
| 6/30/89 | 1,414.86 | \$1,483.64 | 104.9% | (\$68.79) | 249.06 | -27.6% |
| 6/30/90 | 1,612.80 | \$1,395.26 | 86.5% | \$217.54 | 271.01 | 80.3% |
| 6/30/91 | 1,628.94 | \$1,915.61 | 117.6% | (\$286.67) | 287.52 | -99.7% |
| 6/30/92 | 1,732.68 | \$1,956.27 | 112.9% | (\$223.60) | 282.14 | -79.2% |
| 6/30/93 | 1,772.76 | \$1,940.50 | 109.5% | (\$167.74) | 278.84 | -60.2% |
| 6/30/94 | 1,970.53 | \$1,968.32 | 99.9% | \$2.21 | 288.04 | 0.8% |
| 6/30/95 | 2,133.61 | \$2,206.59 | 103.4% | (\$72.98) | 301.83 | -24.2% |
| 6/30/96 | 2,328.09 | \$2,496.33 | 107.2% | (\$168.24) | 343.47 | -49.0% |
| 6/30/97 | 2,620.57 | \$2,911.76 | 111.1% | (\$291.18) | 370.66 | -78.6% |
| 6/30/98 | 2,756.37 | \$2,901.44 | 105.3% | (\$145.07) | 366.98 | -39.5% |
| 6/30/99 | 2,983.40 | \$3,249.25 | 108.9% | (\$265.84) | 402.37 | -66.1% |
| 6/30/00 | 3,635.32 | \$3,443.17 | 94.7% | \$192.15 | 433.10 | 44.4% |
| 6/30/01 | 3,980.87 | \$3,465.65 | 87.1% | \$515.22 | 455.09 | 113.2% |
| 6/30/02 | 4,137.94 | \$3,159.30 | 76.3% | \$978.64 | 461.05 | 212.3% |
| 6/30/03 | 4,421.26 | \$3,230.38 | 73.1% | \$1,190.87 | 475.73 | 250.3% |
| 6/30/04 | 4,741.67 | \$3,733.81 | 78.7% | \$1,007.86 | 508.61 | 198.2% |
| 6/30/05 | 5,348.62 | \$4,248.85 | 79.4% | \$1,099.77 | 546.14 | 201.4% |
| 6/30/06 | 5,743.98 | \$4,681.57 | 81.5% | \$1,062.41 | 556.30 | 191.0% |
| 6/30/07 | 6,248.79 | \$5,546.16 | 88.8% | \$702.63 | 613.03 | 114.6% |
| 6/30/08 | 6,608.65 | \$5,237.58 | 79.3% | \$1,371.08 | 674.69 | 203.2% |
| 6/30/09 | 7,300.11 | \$3,932.22 | 53.9% | \$3,367.89 | 733.57 | 459.1% |
| 6/30/10 | 7,703.86 | \$4,439.50 | 57.6% | \$3,264.37 | 767.42 | 425.4% |



Schools
(Dollars in Millions)

| Valuation Date | Actuarial Accrued Liabilities | Market Value of Assets (MVA) | Funded Status (MVA) | Unfunded Liabilities/ (Surplus) (MVA) | Projected Payroll for Contribution | Unfunded/ (Surplus) as a % of Payroll |
|----------------|-------------------------------|------------------------------|---------------------|---------------------------------------|------------------------------------|---------------------------------------|
| 6/30/87 | \$8,582.66 | \$8,173.59 | 95.2% | \$409.07 | \$3,605.26 | 11.3% |
| 6/30/88 | 9,395.40 | \$8,341.39 | 88.8% | \$1,054.01 | 3,768.65 | 28.0% |
| 6/30/89 | 9,941.35 | \$9,925.64 | 99.8% | \$15.72 | 4,054.28 | 0.4% |
| 6/30/90 | 11,249.14 | \$9,297.76 | 82.7% | \$1,951.37 | 4,392.59 | 44.4% |
| 6/30/91 | 12,002.48 | \$13,300.78 | 110.8% | (\$1,298.30) | 4,849.84 | -26.8% |
| 6/30/92 | 12,855.90 | \$13,815.63 | 107.5% | (\$959.73) | 4,882.78 | -19.7% |
| 6/30/93 | 13,575.13 | \$14,955.70 | 110.2% | (\$1,380.57) | 4,852.84 | -28.4% |
| 6/30/94 | 15,135.82 | \$15,373.38 | 101.6% | (\$237.56) | 5,140.41 | -4.6% |
| 6/30/95 | 16,421.90 | \$17,314.37 | 105.4% | (\$892.46) | 5,350.87 | -16.7% |
| 6/30/96 | 17,571.63 | \$19,706.46 | 112.1% | (\$2,134.83) | 5,145.78 | -41.5% |
| 6/30/97 | 17,583.43 | \$23,499.15 | 133.6% | (\$5,915.72) | 4,907.43 | -120.5% |
| 6/30/98 | 19,499.14 | \$27,873.56 | 142.9% | (\$8,374.42) | 5,444.66 | -153.8% |
| 6/30/99 | 21,216.00 | \$30,917.57 | 145.7% | (\$9,701.57) | 5,961.02 | -162.8% |
| 6/30/00 | 25,473.96 | \$33,295.07 | 130.7% | (\$7,821.11) | 7,052.94 | -110.9% |
| 6/30/01 | 27,946.43 | \$30,307.55 | 108.4% | (\$2,361.12) | 7,912.23 | -29.8% |
| 6/30/02 | 31,271.16 | \$27,689.90 | 88.5% | \$3,581.27 | 8,344.24 | 42.9% |
| 6/30/03 | 33,792.88 | \$28,182.01 | 83.4% | \$5,610.86 | 9,079.11 | 61.8% |
| 6/30/04 | 35,932.74 | \$32,828.49 | 91.4% | \$3,104.24 | 9,068.75 | 34.2% |
| 6/30/05 | 38,367.52 | \$36,898.25 | 96.2% | \$1,469.27 | 9,222.78 | 15.9% |
| 6/30/06 | 41,408.65 | \$40,852.35 | 98.7% | \$556.31 | 9,880.89 | 5.6% |
| 6/30/07 | 44,810.07 | \$48,292.93 | 107.8% | (\$3,482.86) | 10,249.83 | -34.0% |
| 6/30/08 | 48,537.68 | \$45,547.90 | 93.8% | \$2,989.78 | 11,137.70 | 26.8% |
| 6/30/09 | 52,493.08 | \$34,146.45 | 65.0% | \$18,346.63 | 11,109.76 | 165.1% |
| 6/30/10 | 55,306.96 | \$38,435.17 | 69.5% | \$16,871.79 | 11,283.40 | 149.5% |



Assets

- RECONCILIATION OF THE MARKET VALUE OF ASSETS OVER THE PRIOR FISCAL YEAR
- DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS
- ASSET ALLOCATION
- CALPERS HISTORY OF INVESTMENT RETURNS

Reconciliation of the Market Value of Assets Over the Prior Fiscal Year

| | State Miscellaneous | State Industrial | State Safety | State Peace Officers and Firefighters | California Highway Patrol | Schools |
|-----------------------------------------------------------------------------------------------------------------|------------------------|---------------------|------------------|---------------------------------------------|---------------------------------|-------------------|
| 1. Market Value of Assets as of June 30, 2009 Including Receivables for Tier 1 Conversion and Service Buybacks | \$ 44,093,662,038 | \$ 1,555,771,235 | \$ 3,514,114,682 | \$ 15,083,085,214 | \$ 3,932,218,884 | \$ 34,146,446,650 |
| 2. Receivables for Tier 1 Conversion and Service Buybacks as of June 30, 2009 | \$ 499,163,832 | \$ 14,249,362 | \$ 15,365,318 | \$ 44,253,586 | \$ 11,867,885 | \$ 28,751,995 |
| 3. Market Value of Assets as of June 30, 2009 | \$ 43,594,498,206 | \$ 1,541,521,873 | \$ 3,498,749,364 | \$ 15,038,831,628 | \$ 3,920,350,999 | \$ 34,117,694,655 |
| 4. Contributions Received during fiscal year 2009-2010 | 2,016,757,986 | 106,417,897 | 403,233,174 | 1,028,524,068 | 276,303,411 | 1,798,650,436 |
| 5. Benefit Payments in 2009-2010 | (3,758,310,046) | (101,407,992) | (228,293,631) | (1,059,890,631) | (337,581,904) | (2,287,617,248) |
| 6. Refunds in 2009-2010 | (12,879,095) | (456,680) | (5,047,633) | (8,775,934) | (575,052) | (72,388,932) |
| 7. Investment Return | 6,272,176,035 | 222,101,177 | 514,642,072 | 2,159,719,590 | 570,593,281 | 4,851,166,659 |
| 8. Market Value of Assets as of June 30, 2010 [(3) + (4) + (5) + (6) + (7)] | \$ 48,112,243,086 | \$ 1,768,176,275 | \$ 4,183,283,346 | \$ 17,158,408,721 | \$ 4,429,090,735 | \$ 38,407,505,570 |
| 9. Receivables for Tier 1 Conversion and Service Buybacks as of June 30, 2010 | \$ 533,664,980 | \$ 16,725,076 | \$ 12,885,773 | \$ 40,690,091 | \$ 10,406,152 | \$ 27,669,081 |
| 10. Market Value of Assets as of June 30, 2010 Including Receivables for Tier 1 Conversion and Service Buybacks | \$ 48,645,908,066 | \$ 1,784,901,351 | \$ 4,196,169,119 | \$ 17,199,098,812 | \$ 4,439,496,887 | \$ 38,435,174,651 |

Development of the Actuarial Value of Assets

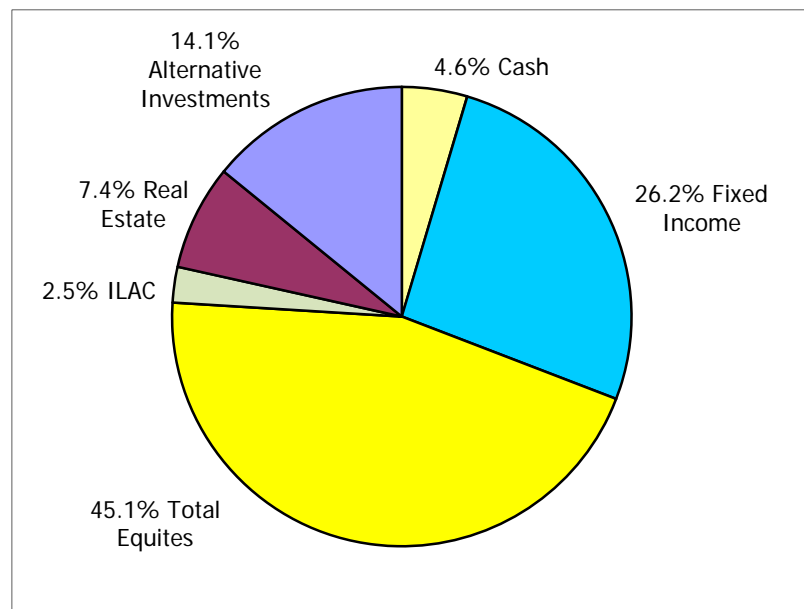
| | State Miscellaneous | State Industrial | State Safety | State Peace Officers and Firefighters | California Highway Patrol | Schools |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------|------------------|---------------------------------------------|---------------------------------|-------------------|
| 1. Actuarial Value of Assets as of June 30, 2009 Used for Rate Setting Purposes | \$ 60,332,287,385 | \$ 2,131,823,292 | \$ 4,804,396,166 | \$ 20,709,633,411 | \$ 5,398,840,144 | \$ 46,675,756,397 |
| 2. Receivables for Tier 1 Conversion and Service Buybacks as of June 30, 2009 | \$ 499,163,832 | \$ 14,249,362 | \$ 15,365,318 | \$ 44,253,586 | \$ 11,867,885 | \$ 28,751,995 |
| 3. Actuarial Value of Assets as of 6/30/09 (Prior to adjustments for Receivables for Tier 1 Conversion and Service Buybacks) [(1)-(2)] | \$ 59,833,123,553 | \$ 2,117,573,930 | \$ 4,789,030,848 | \$ 20,665,379,825 | \$ 5,386,972,259 | \$ 46,647,004,402 |
| 4. Contributions Received during fiscal year 2009-2010 | 2,016,757,986 | 106,417,897 | 403,233,174 | 1,028,524,068 | 276,303,411 | 1,798,650,436 |
| 5. Benefit Payments in 2009-2010 | (3,758,310,046) | (101,407,992) | (228,293,631) | (1,059,890,631) | (337,581,904) | (2,287,617,248) |
| 6. Refunds in 2009-2010 | (12,879,095) | (456,680) | (5,047,633) | (8,775,934) | (575,052) | (72,388,932) |
| 7. Expected Investment Return during fiscal 2009-2010 [(3) x 0.0775 + [(4) + (5) + (6)] x ((1 + 0.0775)^.5-1)] | 4,570,351,366 | 164,285,125 | 377,610,366 | 1,600,040,439 | 415,138,247 | 3,593,796,181 |
| 8. Expected Actuarial Value of Assets as of June 30, 2010 (Prior to Adjustment for Receivables) [(3) + (4) + (5) + (6) + (7)] | \$ 62,649,043,764 | \$ 2,286,412,280 | \$ 5,336,533,124 | \$ 22,225,277,767 | \$ 5,740,256,961 | \$ 49,679,444,839 |
| 9. Market Value of Assets as of 6/30/10 (Prior to Adjustment for Receivables for Tier 1 Conversion and Service Buybacks) | \$ 48,112,243,086 | \$ 1,768,176,275 | \$ 4,183,283,346 | \$ 17,158,408,721 | \$ 4,429,090,735 | \$ 38,407,505,570 |
| 10. Actuarial Value of Assets as of 6/30/10 [(8) + [(9) - (8)]/15, but not less than 70% or more than 130% of (9)] | \$ 61,679,923,719 | \$ 2,251,863,213 | \$ 5,259,649,805 | \$ 21,887,486,497 | \$ 5,652,845,879 | \$ 48,927,982,221 |
| 11. Receivables for Tier 1 Conversion and Service Buybacks as of June 30, 2010 | \$ 533,664,980 | \$ 16,725,076 | \$ 12,885,773 | \$ 40,690,091 | \$ 10,406,152 | \$ 27,669,081 |
| 12. Actuarial Value of Assets as of June 30, 2010 Used for Rate Setting Purposes Only [(10) + (11)], Including Receivables | \$ 62,213,588,699 | \$ 2,268,588,289 | \$ 5,272,535,578 | \$ 21,928,176,588 | \$ 5,663,252,031 | \$ 48,955,651,302 |

Asset Allocation

CalPERS follows a strategic allocation policy that identifies the percentage of funds to be invested in each asset class. The target allocation was changed by the Board in December 2010.

The asset allocation and market value of assets shown below are in respect of the Public Employees Retirement Fund (PERF) as a whole as of June 30, 2010. The assets of the State plans and Schools pool are part of the PERF and are invested accordingly.

| Asset Class | Market Value (\$ Billion) | Current Allocation | Prior Target ¹ | New Target |
|------------------------------|------------------------------|-----------------------|------------------------------|---------------|
| 1) Short-term Investments | 9.3 | 4.6% | 2.0% | 4.0% |
| 2) Total Global Fixed Income | 53.4 | 26.2% | 22.5% | 16.0% |
| 3) Total Equities | 91.9 | 45.1% | 49.0% | 49.0% |
| 4) Inflation Linked (ILAC) | 5.0 | 2.5% | 3.5% | 4.0% |
| 5) Total Real Estate | 15.2 | 7.5% | 10.0% | 13.0% |
| 6) Alternative Investments | <u>28.7</u> | <u>14.1%</u> | <u>13.0%</u> | <u>14.0%</u> |
| Total Fund | \$203.5 ² | 100.0% | 100.0% | 100.0% |

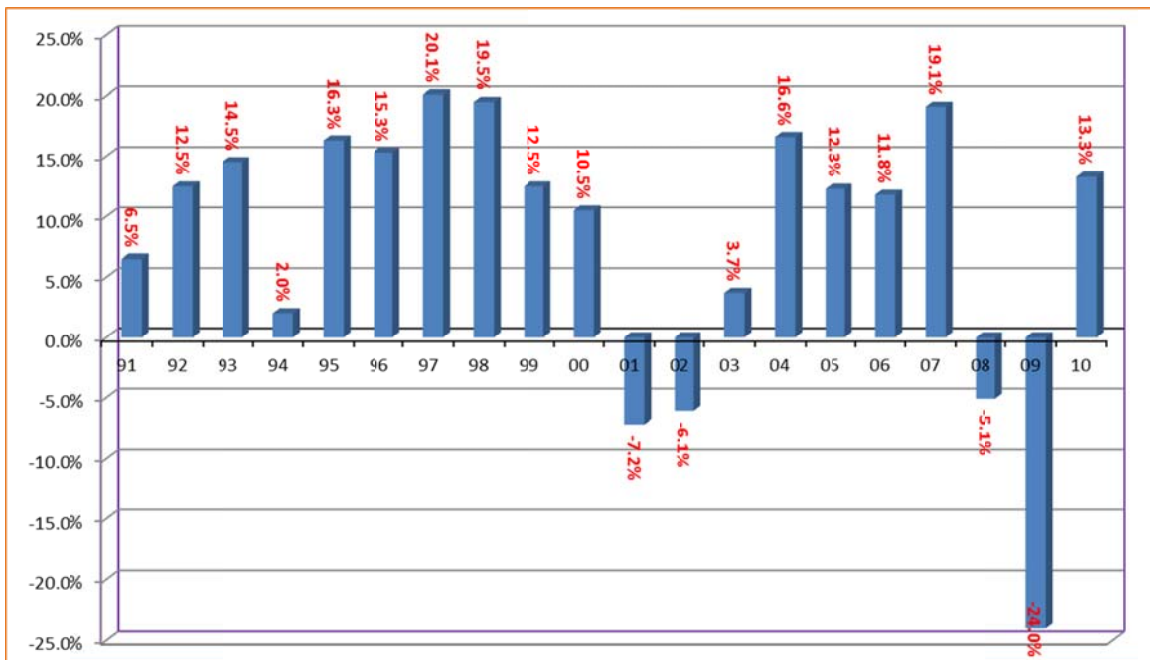


¹ Prior Target Allocation effective January 1, 2010.

² Differences between investment values above and the values on the Summary of Investments on page 23 of the Comprehensive Annual Financial Report (Year Ended June 30, 2010) are due to differences in reporting methods. The Summary of Investments includes Net Investment Receivables/Payables.

CalPERS 20-Year History of Investment Returns

The following is a chart with historical annual returns of the Public Employees Retirement Fund for each fiscal year ending on June 30. Beginning with June 30, 2002 the figures are reported as gross of fees.



PARTICIPANT DATA

- SOURCE OF THE PARTICIPANT DATA
- DATA VALIDATION TESTS AND ADJUSTMENTS
- DATA STATEMENT
- RECONCILIATION OF PARTICIPANTS
- DISTRIBUTION OF ACTIVE PARTICIPANTS AND AVERAGE MONTHLY SALARIES BY AGE AND SERVICE
- DISTRIBUTION BY AGE AND SERVICE OF TERMINATED PARTICIPANTS WITH FUNDS ON DEPOSIT AND TRANSFERS TO OTHER CALPERS PLANS
- SUMMARY OF RETIREES AND BENEFICIARIES

Source of the Participant Data

The data was extracted from various databases within CalPERS and placed in a data warehouse by a series of extract programs. Included in this data is:

- individual member and beneficiary information,
- employment and payroll information,
- accumulated contributions with interest,
- service information,
- benefit payment information,
- information about the various organizations which contract with CalPERS, and
- detailed information about the plan provisions applicable to each group of members.

Data Validation Tests and Adjustments

Once the information is extracted from the various computer systems into the data warehouse, update queries are then run against this data to correct for flaws found in the data. This part of the process is intended to validate the participant data for all CalPERS plans. It is not specific to the State and Schools plans.

The data for each of the State and Schools plans was then pulled into separate files. The data in these files was then checked for reasonableness and consistency with data from the prior valuation.

Checks on the data included:

- a reconciliation of the membership of the plans,
- comparisons of various member statistics (average attained age, average entry age, average salary, etc.) for each plan with those from the prior valuation
- pension amounts for each retiree and beneficiary receiving payments were compared with the pension amounts from the prior valuation
- checks for invalid ages and dates, and
- reasonableness checks on various key data elements such as service and salary.

As a result of the tests on the data, a number of adjustments were determined to be necessary. These included:

- dates of hire and dates of entry were adjusted where necessary to be consistent with the service fields, the date of birth and each other, and
- the annual earnings rate for most Schools members were overwritten with the annualized earnings based on their yearly contributions.

In addition, it is also known that records relating to pre-1984 State Safety retirees who were transferred to the State Peace Officers and Firefighters plan upon its creation have not had their records updated to reflect the transfer. In this valuation, as in prior valuations, this deficiency has been handled by adjusting the assets and liabilities rather than by trying to correct the data. The member counts and summary of retiree data have not been adjusted to correct for this deficiency.

Data Statement

The data does not contain information about reciprocal systems and hence salary information for terminated participants covered by reciprocal systems may not be up to date. This situation is not expected to have a material impact on the employer contribution rates since the total present value for all terminated participants represents less than 2% of the present value of benefits for all members.

We are unaware of any other data issues that would have a material effect on the results of this valuation.

It is our opinion that, after the adjustments noted above, the participant data was sufficient and reliable for the purposes of the valuation.

Reconciliation of Participants

For the Fiscal Year Ending June 30, 2010

State Miscellaneous Tier 1

| | Active | Transfer | Terminated | Receiving | Total |
|--------------------------------------|----------------|---------------|---------------|----------------|----------------|
| As of June 30, 2009 | 151,547 | 22,201 | 40,408 | 149,283 | 363,439 |
| Retirements | (6,431) | (1,571) | (576) | 8,578 | - |
| Industrial Disabilities | (3) | (34) | (2) | 39 | - |
| Ordinary Disabilities | (167) | (15) | (70) | 252 | - |
| Deaths ² | (229) | (27) | (89) | (4,969) | (5,314) |
| New Survivors | n/a | n/a | n/a | 1,755 | 1,755 |
| Non-vested Terminations ¹ | (2,110) | (135) | 2,245 | - | - |
| Vested Terminations | (1,067) | (274) | 1,343 | (2) | - |
| Refunds of Contributions | (700) | (209) | (1,074) | (1) | (1,984) |
| Transfers | (781) | 1,195 | (389) | (25) | - |
| Redeposits/Rehires | 1,499 | (454) | (976) | (69) | - |
| First Year in Status | 10,099 | 402 | 674 | 113 | 11,288 |
| Moved from Tier 2 | 289 | 489 | 55 | 3 | 836 |
| Data Corrections ³ | (315) | (405) | (385) | (417) | (1,522) |
| As of June 30, 2010 | 151,631 | 21,163 | 41,164 | 154,540 | 368,498 |

State Miscellaneous Tier 2

| | Active | Transfer | Terminated | Receiving | Total |
|--------------------------------------|--------------|---------------|--------------|--------------|---------------|
| As of June 30, 2009 | 8,090 | 12,434 | 1,681 | 4,229 | 26,436 |
| Retirements | (23) | (90) | (49) | 162 | - |
| Industrial Disabilities | - | (1) | - | 1 | - |
| Ordinary Disabilities | (7) | (8) | (9) | 24 | - |
| Deaths ² | (18) | (21) | (7) | (103) | (149) |
| New Survivors | n/a | n/a | n/a | 58 | 58 |
| Non-vested Terminations ¹ | (18) | (43) | 61 | - | - |
| Vested Terminations | (133) | (154) | 287 | - | - |
| Refunds of Contributions | (5) | (40) | (15) | (1) | (61) |
| Transfers | (112) | 313 | (196) | (5) | - |
| Redeposits/Rehires | 112 | (15) | (97) | - | - |
| First Year in Status | 82 | 26 | 303 | 12 | 423 |
| Moved to Tier 1 | (289) | (489) | (55) | (3) | (836) |
| Data Corrections ³ | (5) | (31) | (210) | (12) | (260) |
| As of June 30, 2010 | 7,674 | 11,881 | 1,694 | 4,362 | 25,611 |

¹ Includes non-vested terminated participants with employee contributions left in the plan.

² Includes both deaths without survivors and deaths with survivors receiving a benefit.

³ May include the combining of data records into a single record.

Reconciliation of Participants (Continued)

For the Fiscal Year Ending June 30, 2010

State Industrial

| | Active | Transfer | Terminated | Receiving | Total |
|--------------------------------------|---------------|--------------|--------------|--------------|---------------|
| As of June 30, 2009 | 10,823 | 7,660 | 2,642 | 8,470 | 29,595 |
| Retirements | (393) | (409) | (45) | 847 | - |
| Industrial Disabilities | (1) | (8) | (3) | 12 | - |
| Ordinary Disabilities | (25) | (11) | (7) | 43 | - |
| Deaths ² | (14) | (11) | (5) | (191) | (221) |
| New Survivors | n/a | n/a | n/a | 85 | 85 |
| Non-vested Terminations ¹ | (87) | (14) | 101 | - | - |
| Vested Terminations | (77) | (71) | 148 | - | - |
| Refunds of Contributions | (48) | (83) | (68) | - | (199) |
| Transfers | (441) | 510 | (65) | (4) | - |
| Redeposits/Rehires | 160 | (97) | (56) | (7) | - |
| First Year in Status | 1,752 | 171 | 60 | 25 | 2,008 |
| Data Corrections ³ | (12) | (36) | (36) | (5) | (89) |
| As of June 30, 2010 | 11,637 | 7,601 | 2,666 | 9,275 | 31,179 |

State Safety

| | Active | Transfer | Terminated | Receiving | Total |
|--------------------------------------|---------------|--------------|--------------|---------------|---------------|
| As of June 30, 2009 | 25,863 | 4,546 | 4,323 | 15,576 | 50,308 |
| Retirements | (999) | (294) | (76) | 1,369 | - |
| Industrial Disabilities | (73) | (10) | (12) | 95 | - |
| Ordinary Disabilities | (27) | (6) | (4) | 37 | - |
| Deaths ² | (47) | (8) | (9) | (445) | (509) |
| New Survivors | n/a | n/a | n/a | 171 | 171 |
| Non-vested Terminations ¹ | (571) | (31) | 602 | - | - |
| Vested Terminations | (185) | (33) | 219 | (1) | - |
| Refunds of Contributions | (403) | (22) | (230) | - | (655) |
| Transfers | (616) | 685 | (60) | (9) | - |
| Redeposits/Rehires | 214 | (79) | (116) | (19) | - |
| First Year in Status | 1,757 | 88 | 215 | 61 | 2,121 |
| Data Corrections ³ | (13) | (49) | (158) | (86) | (306) |
| As of June 30, 2010 | 24,900 | 4,787 | 4,694 | 16,749 | 51,130 |

¹ Includes non-vested terminated participants with employee contributions left in the plan.² Includes both deaths without survivors and deaths with survivors receiving a benefit.³ May include the combining of data records into a single record.

Reconciliation of Participants (Continued)

For the Fiscal Year Ending June 30, 2010

State Peace Officers and Firefighters

| | Active | Transfer | Terminated | Receiving | Total |
|--------------------------------------|---------------|-----------------|-------------------|------------------|---------------|
| As of June 30, 2009 | 46,987 | 5,583 | 5,767 | 22,571 | 80,908 |
| Retirements | (1,902) | (227) | (93) | 2,222 | - |
| Industrial Disabilities | (168) | (11) | (25) | 204 | - |
| Ordinary Disabilities | (15) | - | (4) | 19 | - |
| Deaths ² | (43) | (7) | (13) | (265) | (328) |
| New Survivors | n/a | n/a | n/a | 173 | 173 |
| Non-vested Terminations ¹ | (546) | (43) | 589 | - | - |
| Vested Terminations | (243) | (47) | 291 | (1) | - |
| Refunds of Contributions | (227) | (47) | (209) | - | (483) |
| Transfers | (182) | 307 | (115) | (10) | - |
| Redeposits/Rehires | 586 | (327) | (241) | (18) | - |
| First Year in Status | 1,089 | 78 | 163 | 27 | 1,357 |
| Data Corrections ³ | (318) | (59) | (104) | (121) | (602) |
| As of June 30, 2010 | 45,018 | 5,200 | 6,006 | 24,801 | 81,025 |

California Highway Patrol

| | Active | Transfer | Terminated | Receiving | Total |
|--------------------------------------|---------------|-----------------|-------------------|------------------|---------------|
| As of June 30, 2009 | 7,335 | 316 | 350 | 7,567 | 15,568 |
| Retirements | (255) | (15) | (17) | 287 | - |
| Industrial Disabilities | (27) | - | (1) | 28 | - |
| Ordinary Disabilities | - | - | - | - | - |
| Deaths ² | (11) | - | (2) | (147) | (160) |
| New Survivors | n/a | n/a | n/a | 85 | 85 |
| Non-vested Terminations ¹ | (11) | (2) | 13 | - | - |
| Vested Terminations | (18) | (5) | 23 | - | - |
| Refunds of Contributions | (9) | - | (14) | - | (23) |
| Transfers | (6) | 19 | (9) | (4) | - |
| Redeposits/Rehires | 25 | (1) | (23) | (1) | - |
| First Year in Status | 454 | 9 | 12 | 9 | 484 |
| Data Corrections ³ | (1) | - | (4) | (19) | (24) |
| As of June 30, 2010 | 7,476 | 321 | 328 | 7,805 | 15,930 |

¹ Includes non-vested terminated participants with employee contributions left in the plan.² Includes both deaths without survivors and deaths with survivors receiving a benefit.³ May include the combining of data records into a single record.

Reconciliation of Participants (Continued)

For the Fiscal Year Ending June 30, 2010

Schools

| | Active | Transfer | Terminated | Receiving | Total |
|--------------------------------------|----------------|-----------------|-------------------|------------------|----------------|
| As of June 30, 2009 | 299,066 | 25,843 | 155,624 | 174,733 | 655,266 |
| Retirements | (8,439) | (1,162) | (1,591) | 11,192 | - |
| Industrial Disabilities | - | (24) | (32) | 56 | - |
| Ordinary Disabilities | (184) | (14) | (123) | 321 | - |
| Deaths ² | (406) | (35) | (299) | (6,018) | (6,758) |
| New Survivors | n/a | n/a | n/a | 579 | 579 |
| Non-vested Terminations ¹ | (10,027) | (259) | 10,286 | - | - |
| Vested Terminations | (2,571) | (327) | 2,899 | (1) | - |
| Refunds of Contributions | (3,316) | (150) | (5,370) | (4) | (8,840) |
| Transfers | (459) | 1,089 | (615) | (15) | - |
| Redeposits/Rehires | 2,923 | (261) | (2,629) | (33) | - |
| First Year in Status | 15,098 | 475 | 3,663 | 393 | 19,629 |
| Data Corrections ³ | (155) | (2,074) | (2,453) | 503 | (4,179) |
| As of June 30, 2010 | 291,530 | 23,101 | 159,360 | 181,706 | 655,697 |

¹ Includes non-vested terminated participants with employee contributions left in the plan.

² Includes both deaths without survivors and deaths with survivors receiving a benefit.

³ May include the combining of data records into a single record.

Active Members

Distribution of Active Members By Age and Service

As of June 30, 2010

State Miscellaneous Tier 1

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Payroll |
|--------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|----------------|-------------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 1,520 | 11 | 0 | 0 | 0 | 0 | 1,531 | 51,307,842 |
| 25-29 | 6,723 | 1,152 | 37 | 0 | 0 | 0 | 7,912 | 345,180,518 |
| 30-34 | 6,879 | 4,165 | 1,083 | 59 | 0 | 0 | 12,186 | 636,786,034 |
| 35-39 | 5,884 | 5,265 | 3,371 | 730 | 62 | 0 | 15,312 | 901,257,110 |
| 40-44 | 5,252 | 5,667 | 4,288 | 2,761 | 1,270 | 80 | 19,318 | 1,209,282,522 |
| 45-49 | 4,790 | 5,378 | 4,728 | 3,571 | 4,148 | 1,710 | 24,325 | 1,569,963,528 |
| 50-54 | 4,107 | 5,025 | 4,464 | 3,519 | 4,697 | 6,277 | 28,089 | 1,841,443,269 |
| 55-59 | 3,181 | 4,022 | 3,568 | 2,983 | 3,840 | 6,730 | 24,324 | 1,623,932,569 |
| 60-64 | 1,857 | 2,377 | 2,105 | 1,797 | 2,120 | 3,383 | 13,639 | 926,676,232 |
| 65 and Over | 737 | 1,046 | 893 | 611 | 691 | 1,017 | 4,995 | 344,106,075 |
| Total | 40,930 | 34,108 | 24,537 | 16,031 | 16,828 | 19,197 | 151,631 | \$ 9,449,935,701 |

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2010

State Miscellaneous Tier 1

| Attained Age | Years of Service at Valuation Date | | | | | | Average Salary |
|----------------|------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | |
| 15-24 | 33,465 | 40,049 | 0 | 0 | 0 | 0 | \$33,513 |
| 25-29 | 42,991 | 47,030 | 53,292 | 0 | 0 | 0 | 43,627 |
| 30-34 | 49,403 | 54,216 | 61,555 | 75,816 | 0 | 0 | 52,256 |
| 35-39 | 52,909 | 58,908 | 66,770 | 68,875 | 71,380 | 0 | 58,860 |
| 40-44 | 52,830 | 60,067 | 68,747 | 72,448 | 71,086 | 79,085 | 62,599 |
| 45-49 | 51,914 | 60,412 | 67,127 | 71,104 | 73,206 | 71,023 | 64,541 |
| 50-54 | 51,788 | 58,819 | 65,990 | 71,333 | 71,863 | 71,697 | 65,557 |
| 55-59 | 52,954 | 59,245 | 65,614 | 69,743 | 73,632 | 73,150 | 66,763 |
| 60-64 | 54,169 | 58,952 | 65,499 | 71,549 | 74,506 | 77,314 | 67,943 |
| 65 and Over | 50,935 | 57,937 | 67,554 | 72,597 | 81,308 | 83,678 | 68,890 |
| Average | \$49,755 | \$58,357 | \$66,543 | \$71,155 | \$73,258 | \$73,802 | \$62,322 |

Distribution of Active Members By Age and Service

As of June 30, 2010

State Miscellaneous Tier 2

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Payroll |
|--------------|------------------------------------|------------|--------------|--------------|--------------|------------|--------------|-----------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 206,828 |
| 25-29 | 24 | 4 | 3 | 0 | 0 | 0 | 31 | 1,495,353 |
| 30-34 | 43 | 49 | 193 | 3 | 0 | 0 | 288 | 14,128,535 |
| 35-39 | 43 | 79 | 512 | 165 | 5 | 0 | 804 | 42,930,488 |
| 40-44 | 51 | 92 | 607 | 468 | 127 | 0 | 1,345 | 71,983,179 |
| 45-49 | 45 | 75 | 576 | 474 | 316 | 78 | 1,564 | 85,591,498 |
| 50-54 | 29 | 65 | 495 | 424 | 282 | 234 | 1,529 | 82,821,484 |
| 55-59 | 28 | 59 | 346 | 287 | 224 | 262 | 1,206 | 65,879,265 |
| 60-64 | 14 | 32 | 182 | 161 | 105 | 136 | 630 | 34,623,067 |
| 65 and Over | 19 | 28 | 76 | 73 | 37 | 38 | 271 | 13,596,298 |
| Total | 302 | 483 | 2,990 | 2,055 | 1,096 | 748 | 7,674 | \$ 413,255,995 |

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2010

State Miscellaneous Tier 2

| Attained Age | Years of Service at Valuation Date | | | | | | Average Salary |
|----------------|------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | |
| 15-24 | 34,471 | 0 | 0 | 0 | 0 | 0 | \$34,471 |
| 25-29 | 48,164 | 49,981 | 46,495 | 0 | 0 | 0 | 48,237 |
| 30-34 | 49,905 | 43,536 | 49,823 | 77,804 | 0 | 0 | 49,057 |
| 35-39 | 47,554 | 45,474 | 54,717 | 54,425 | 59,558 | 0 | 53,396 |
| 40-44 | 45,378 | 48,467 | 52,021 | 56,782 | 55,588 | 0 | 53,519 |
| 45-49 | 45,218 | 47,585 | 52,593 | 56,958 | 58,163 | 55,344 | 54,726 |
| 50-54 | 50,197 | 37,625 | 51,696 | 55,366 | 56,034 | 60,060 | 54,167 |
| 55-59 | 43,746 | 37,881 | 52,902 | 56,322 | 53,929 | 60,576 | 54,626 |
| 60-64 | 42,857 | 40,214 | 52,677 | 53,476 | 55,280 | 64,228 | 54,957 |
| 65 and Over | 16,870 | 34,938 | 53,277 | 54,600 | 59,098 | 54,634 | 50,171 |
| Average | \$44,714 | \$43,270 | \$52,565 | \$55,971 | \$56,213 | \$60,231 | \$53,851 |

Distribution of Active Members By Age and Service

As of June 30, 2010

State Industrial

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Payroll |
|--------------|------------------------------------|--------------|--------------|------------|------------|------------|---------------|-----------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 364 | 1 | 0 | 0 | 0 | 0 | 365 | 12,198,622 |
| 25-29 | 909 | 87 | 0 | 0 | 0 | 0 | 996 | 38,521,166 |
| 30-34 | 826 | 254 | 78 | 1 | 0 | 0 | 1,159 | 49,483,567 |
| 35-39 | 722 | 326 | 213 | 40 | 4 | 0 | 1,305 | 62,400,607 |
| 40-44 | 807 | 385 | 294 | 155 | 48 | 1 | 1,690 | 84,350,440 |
| 45-49 | 774 | 378 | 342 | 223 | 130 | 46 | 1,893 | 98,388,789 |
| 50-54 | 674 | 362 | 372 | 227 | 174 | 89 | 1,898 | 101,744,975 |
| 55-59 | 495 | 250 | 252 | 169 | 124 | 64 | 1,354 | 73,946,916 |
| 60-64 | 246 | 151 | 157 | 84 | 61 | 32 | 731 | 41,439,827 |
| 65 and Over | 64 | 56 | 67 | 44 | 12 | 3 | 246 | 15,179,573 |
| Total | 5,881 | 2,250 | 1,775 | 943 | 553 | 235 | 11,637 | \$ 577,654,483 |

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2010

State Industrial

| Attained Age | Years of Service at Valuation Date | | | | | | Average Salary |
|----------------|------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | |
| 15-24 | 33,386 | 46,200 | 0 | 0 | 0 | 0 | \$33,421 |
| 25-29 | 38,231 | 43,329 | 0 | 0 | 0 | 0 | 38,676 |
| 30-34 | 41,574 | 43,994 | 50,045 | 65,376 | 0 | 0 | 42,695 |
| 35-39 | 45,933 | 48,986 | 51,120 | 54,341 | 51,276 | 0 | 47,817 |
| 40-44 | 47,554 | 48,871 | 52,921 | 56,006 | 59,738 | 51,504 | 49,912 |
| 45-49 | 50,480 | 49,936 | 51,267 | 56,470 | 57,026 | 63,099 | 51,975 |
| 50-54 | 51,743 | 51,992 | 52,740 | 55,946 | 59,626 | 60,169 | 53,606 |
| 55-59 | 56,802 | 49,867 | 52,399 | 53,387 | 58,859 | 59,964 | 54,614 |
| 60-64 | 54,771 | 54,421 | 54,115 | 65,330 | 63,422 | 59,251 | 56,689 |
| 65 and Over | 58,393 | 58,476 | 59,021 | 72,489 | 74,241 | 44,320 | 61,706 |
| Average | \$46,261 | \$49,525 | \$52,484 | \$57,171 | \$59,528 | \$60,323 | \$49,639 |

Distribution of Active Members By Age and Service

As of June 30, 2010

State Safety

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Payroll |
|--------------|------------------------------------|--------------|--------------|--------------|------------|------------|---------------|-------------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 362 | 4 | 0 | 0 | 0 | 0 | 366 | 17,404,091 |
| 25-29 | 1,306 | 151 | 2 | 0 | 0 | 0 | 1,459 | 78,553,988 |
| 30-34 | 1,707 | 446 | 43 | 0 | 0 | 0 | 2,196 | 142,959,373 |
| 35-39 | 1,850 | 711 | 214 | 16 | 1 | 0 | 2,792 | 207,370,582 |
| 40-44 | 1,751 | 858 | 404 | 113 | 18 | 0 | 3,144 | 229,736,316 |
| 45-49 | 1,662 | 1,041 | 584 | 261 | 125 | 9 | 3,682 | 268,013,529 |
| 50-54 | 1,666 | 1,190 | 813 | 394 | 274 | 58 | 4,395 | 337,442,807 |
| 55-59 | 1,301 | 979 | 806 | 345 | 208 | 51 | 3,690 | 302,752,601 |
| 60-64 | 709 | 618 | 482 | 245 | 121 | 37 | 2,212 | 195,820,853 |
| 65 and Over | 251 | 261 | 259 | 116 | 60 | 16 | 963 | 99,779,424 |
| Total | 12,565 | 6,259 | 3,607 | 1,490 | 807 | 171 | 24,899 | \$ 1,879,833,566 |

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2010

State Safety

| Attained Age | Years of Service at Valuation Date | | | | | | Average Salary |
|----------------|------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | |
| 15-24 | 47,493 | 52,902 | 0 | 0 | 0 | 0 | \$47,552 |
| 25-29 | 53,718 | 54,840 | 58,513 | 0 | 0 | 0 | 53,841 |
| 30-34 | 66,273 | 61,407 | 56,820 | 0 | 0 | 0 | 65,100 |
| 35-39 | 77,034 | 68,253 | 71,458 | 61,364 | 55,020 | 0 | 74,273 |
| 40-44 | 74,823 | 68,682 | 75,224 | 72,157 | 69,286 | 0 | 73,071 |
| 45-49 | 74,166 | 70,274 | 74,889 | 71,720 | 68,248 | 67,680 | 72,790 |
| 50-54 | 79,529 | 71,048 | 80,403 | 77,119 | 73,044 | 79,893 | 76,779 |
| 55-59 | 85,895 | 75,019 | 84,567 | 84,465 | 77,469 | 81,245 | 82,047 |
| 60-64 | 93,449 | 80,437 | 93,213 | 87,132 | 85,557 | 87,206 | 88,527 |
| 65 and Over | 102,035 | 96,470 | 119,431 | 98,639 | 90,829 | 72,843 | 103,613 |
| Average | \$74,284 | \$71,796 | \$83,551 | \$80,651 | \$76,534 | \$80,576 | \$75,498 |

Distribution of Active Members By Age and Service

As of June 30, 2010

State Peace Officers and Firefighters

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Payroll |
|--------------|------------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 1,242 | 0 | 0 | 0 | 0 | 0 | 1,242 | 39,334,063 |
| 25-29 | 4,114 | 608 | 2 | 0 | 0 | 0 | 4,724 | 249,036,759 |
| 30-34 | 3,049 | 2,604 | 729 | 4 | 0 | 0 | 6,386 | 410,489,937 |
| 35-39 | 2,132 | 2,211 | 2,648 | 601 | 7 | 0 | 7,599 | 544,296,447 |
| 40-44 | 1,426 | 1,578 | 2,414 | 1,944 | 664 | 6 | 8,032 | 611,718,854 |
| 45-49 | 974 | 1,080 | 1,628 | 1,673 | 2,461 | 747 | 8,563 | 695,273,959 |
| 50-54 | 489 | 604 | 990 | 994 | 1,269 | 620 | 4,966 | 405,911,638 |
| 55-59 | 219 | 317 | 512 | 479 | 587 | 287 | 2,401 | 195,015,167 |
| 60-64 | 58 | 129 | 220 | 195 | 199 | 97 | 898 | 73,092,380 |
| 65 and Over | 15 | 17 | 54 | 50 | 49 | 22 | 207 | 16,519,302 |
| Total | 13,718 | 9,148 | 9,197 | 5,940 | 5,236 | 1,779 | 45,018 | \$ 3,240,688,506 |

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2010

State Peace Officers and Firefighters

| Attained Age | Years of Service at Valuation Date | | | | | | Average Salary |
|----------------|------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | |
| 15-24 | 31,670 | 0 | 0 | 0 | 0 | 0 | \$31,670 |
| 25-29 | 50,927 | 64,775 | 69,725 | 0 | 0 | 0 | 52,717 |
| 30-34 | 56,373 | 70,109 | 76,389 | 89,750 | 0 | 0 | 64,280 |
| 35-39 | 60,929 | 72,564 | 77,393 | 80,668 | 76,966 | 0 | 71,627 |
| 40-44 | 62,656 | 73,755 | 78,461 | 81,409 | 87,045 | 87,254 | 76,160 |
| 45-49 | 65,260 | 75,318 | 78,377 | 81,396 | 88,080 | 93,480 | 81,195 |
| 50-54 | 68,419 | 75,494 | 78,329 | 81,166 | 87,058 | 93,797 | 81,738 |
| 55-59 | 69,821 | 77,022 | 78,185 | 80,969 | 85,224 | 92,221 | 81,222 |
| 60-64 | 72,864 | 76,657 | 79,766 | 79,381 | 85,981 | 91,125 | 81,395 |
| 65 and Over | 76,532 | 71,370 | 74,254 | 81,970 | 82,710 | 90,774 | 79,803 |
| Average | \$55,231 | \$72,281 | \$77,949 | \$81,198 | \$87,236 | \$93,205 | \$71,987 |

Distribution of Active Members By Age and Service

As of June 30, 2010

California Highway Patrol

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Payroll |
|--------------|------------------------------------|--------------|--------------|------------|--------------|------------|--------------|-----------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 225 | 0 | 0 | 0 | 0 | 0 | 225 | 17,786,582 |
| 25-29 | 740 | 109 | 0 | 0 | 0 | 0 | 849 | 70,629,467 |
| 30-34 | 579 | 589 | 190 | 0 | 0 | 0 | 1,358 | 121,032,229 |
| 35-39 | 276 | 569 | 702 | 224 | 0 | 0 | 1,771 | 166,213,052 |
| 40-44 | 16 | 213 | 461 | 397 | 330 | 5 | 1,422 | 141,182,258 |
| 45-49 | 1 | 0 | 125 | 206 | 549 | 305 | 1,186 | 127,759,499 |
| 50-54 | 1 | 0 | 28 | 44 | 157 | 322 | 552 | 62,503,953 |
| 55-59 | 1 | 0 | 11 | 7 | 19 | 75 | 113 | 12,757,429 |
| 60-64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 and Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1,839 | 1,480 | 1,517 | 878 | 1,055 | 707 | 7,476 | \$ 719,864,469 |

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2010

California Highway Patrol

| Attained Age | Years of Service at Valuation Date | | | | | | Average Salary |
|----------------|------------------------------------|-----------------|-----------------|------------------|------------------|------------------|-----------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | |
| 15-24 | 79,051 | 0 | 0 | 0 | 0 | 0 | \$79,051 |
| 25-29 | 81,692 | 93,369 | 0 | 0 | 0 | 0 | 83,191 |
| 30-34 | 82,385 | 93,684 | 95,534 | 0 | 0 | 0 | 89,125 |
| 35-39 | 82,706 | 93,485 | 96,601 | 99,909 | 0 | 0 | 93,853 |
| 40-44 | 87,377 | 92,988 | 96,201 | 99,087 | 108,442 | 101,141 | 99,284 |
| 45-49 | 65,616 | 0 | 97,138 | 100,451 | 108,034 | 116,551 | 107,723 |
| 50-54 | 61,380 | 0 | 106,614 | 104,895 | 107,216 | 118,041 | 113,232 |
| 55-59 | 94,883 | 0 | 109,557 | 112,035 | 110,755 | 114,251 | 112,898 |
| 60-64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 and Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Average | \$81,776 | \$93,484 | \$96,669 | \$100,011 | \$108,089 | \$116,876 | \$96,290 |

Distribution of Active Members By Age and Service

As of June 30, 2010

Schools

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Payroll |
|--------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|----------------|-------------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 9,389 | 74 | 0 | 0 | 0 | 0 | 9,463 | \$183,887,369 |
| 25-29 | 16,871 | 3,232 | 93 | 0 | 0 | 0 | 20,196 | 557,877,664 |
| 30-34 | 13,723 | 7,818 | 2,121 | 38 | 1 | 0 | 23,701 | 800,090,617 |
| 35-39 | 13,177 | 8,262 | 4,797 | 955 | 48 | 0 | 27,239 | 961,029,958 |
| 40-44 | 15,396 | 9,589 | 6,022 | 2,555 | 1,134 | 68 | 34,764 | 1,250,842,319 |
| 45-49 | 16,319 | 12,770 | 8,268 | 3,925 | 3,137 | 1,333 | 45,752 | 1,709,640,220 |
| 50-54 | 13,599 | 13,558 | 10,459 | 5,562 | 4,142 | 3,805 | 51,125 | 1,997,288,466 |
| 55-59 | 9,330 | 10,492 | 9,362 | 6,115 | 4,613 | 4,329 | 44,241 | 1,773,682,663 |
| 60-64 | 4,818 | 5,703 | 5,415 | 3,916 | 3,080 | 2,604 | 25,536 | 1,021,284,586 |
| 65 and Over | 2,217 | 2,237 | 1,845 | 1,233 | 988 | 993 | 9,513 | 328,618,961 |
| Total | 114,839 | 73,735 | 48,382 | 24,299 | 17,143 | 13,132 | 291,530 | \$10,584,242,823 |

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2010

Schools

| Attained Age | Years of Service at Valuation Date | | | | | | Average Salary |
|----------------|------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | |
| 15-24 | \$19,297 | \$36,578 | \$0 | \$0 | \$0 | \$0 | \$19,432 |
| 25-29 | 25,594 | 37,623 | 48,128 | 0 | 0 | 0 | 27,623 |
| 30-34 | 28,555 | 39,267 | 46,536 | 63,792 | 112,847 | 0 | 33,758 |
| 35-39 | 27,215 | 39,521 | 46,716 | 51,080 | 63,094 | 0 | 35,281 |
| 40-44 | 26,073 | 38,367 | 46,582 | 52,314 | 55,653 | 62,171 | 35,981 |
| 45-49 | 25,553 | 36,123 | 45,423 | 50,293 | 57,447 | 58,649 | 37,368 |
| 50-54 | 25,689 | 34,953 | 42,822 | 48,398 | 55,136 | 60,039 | 39,065 |
| 55-59 | 25,638 | 34,213 | 41,577 | 46,245 | 52,550 | 60,308 | 40,091 |
| 60-64 | 25,296 | 34,120 | 41,240 | 44,878 | 50,655 | 57,508 | 39,994 |
| 65 and Over | 19,795 | 30,153 | 38,335 | 41,381 | 45,277 | 51,153 | 34,544 |
| Average | \$25,568 | \$36,372 | \$43,704 | \$47,780 | \$53,550 | \$58,824 | \$36,306 |

Terminated and Transferred Participants

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2010

State Miscellaneous Tier 1

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|--------------|--------------|--------------|------------|------------|---------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 79 | 0 | 0 | 0 | 0 | 0 | 79 | 48,183 |
| 25-29 | 744 | 35 | 0 | 0 | 0 | 0 | 779 | 53,029 |
| 30-34 | 1,398 | 295 | 10 | 1 | 0 | 0 | 1,704 | 60,473 |
| 35-39 | 1,498 | 494 | 78 | 6 | 0 | 0 | 2,076 | 66,221 |
| 40-44 | 1,537 | 634 | 284 | 106 | 14 | 0 | 2,575 | 69,420 |
| 45-49 | 1,939 | 826 | 453 | 288 | 137 | 29 | 3,672 | 73,721 |
| 50-54 | 2,066 | 918 | 542 | 401 | 211 | 119 | 4,257 | 73,802 |
| 55-59 | 1,732 | 718 | 410 | 257 | 177 | 138 | 3,432 | 75,826 |
| 60-64 | 1,030 | 401 | 203 | 119 | 70 | 57 | 1,880 | 76,662 |
| 65 and Over | 424 | 134 | 73 | 52 | 18 | 8 | 709 | 77,424 |
| Total | 12,447 | 4,455 | 2,053 | 1,230 | 627 | 351 | 21,163 | 71,281 |

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2010

State Miscellaneous Tier 1

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|--------------|--------------|------------|------------|------------|---------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 301 | 0 | 0 | 0 | 0 | 0 | 301 | 28,008 |
| 25-29 | 2,910 | 70 | 0 | 0 | 0 | 0 | 2,980 | 31,206 |
| 30-34 | 4,673 | 436 | 27 | 1 | 0 | 0 | 5,137 | 37,275 |
| 35-39 | 4,401 | 866 | 98 | 17 | 1 | 0 | 5,383 | 43,366 |
| 40-44 | 4,023 | 1,183 | 355 | 105 | 10 | 0 | 5,676 | 46,206 |
| 45-49 | 3,878 | 1,408 | 587 | 289 | 78 | 18 | 6,258 | 46,823 |
| 50-54 | 3,626 | 1,345 | 611 | 283 | 130 | 48 | 6,043 | 45,036 |
| 55-59 | 3,115 | 1,071 | 405 | 167 | 64 | 22 | 4,844 | 42,734 |
| 60-64 | 2,143 | 591 | 194 | 73 | 26 | 13 | 3,040 | 41,704 |
| 65 and Over | 1,235 | 181 | 58 | 15 | 7 | 6 | 1,502 | 37,565 |
| Total | 30,304 | 7,151 | 2,335 | 950 | 316 | 107 | 41,164 | 42,367 |

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2010

State Miscellaneous Tier 2

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|--------------|--------------|------------|------------|------------|---------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 28,728 |
| 25-29 | 22 | 0 | 0 | 0 | 0 | 0 | 22 | 51,038 |
| 30-34 | 525 | 60 | 6 | 0 | 0 | 0 | 591 | 58,938 |
| 35-39 | 1,256 | 385 | 76 | 7 | 0 | 0 | 1,724 | 64,586 |
| 40-44 | 1,310 | 793 | 279 | 31 | 0 | 0 | 2,413 | 63,974 |
| 45-49 | 1,333 | 675 | 481 | 126 | 28 | 0 | 2,643 | 63,864 |
| 50-54 | 1,028 | 491 | 348 | 162 | 118 | 13 | 2,160 | 64,696 |
| 55-59 | 662 | 297 | 253 | 117 | 105 | 51 | 1,485 | 63,846 |
| 60-64 | 289 | 136 | 96 | 30 | 36 | 35 | 622 | 64,434 |
| 65 and Over | 120 | 45 | 34 | 3 | 6 | 12 | 220 | 67,569 |
| Total | 6,546 | 2,882 | 1,573 | 476 | 293 | 111 | 11,881 | 63,967 |

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2010

State Miscellaneous Tier 2

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|----------|--------------|------------|-----------|-----------|--------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25-29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30-34 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 30,229 |
| 35-39 | 0 | 0 | 51 | 7 | 0 | 0 | 58 | 32,042 |
| 40-44 | 0 | 0 | 206 | 23 | 3 | 0 | 232 | 33,418 |
| 45-49 | 0 | 0 | 286 | 78 | 13 | 2 | 379 | 32,962 |
| 50-54 | 0 | 0 | 321 | 99 | 26 | 6 | 452 | 33,250 |
| 55-59 | 0 | 0 | 230 | 83 | 29 | 8 | 350 | 32,267 |
| 60-64 | 0 | 0 | 126 | 40 | 10 | 7 | 183 | 32,589 |
| 65 and Over | 0 | 0 | 24 | 9 | 5 | 1 | 39 | 32,800 |
| Total | 0 | 0 | 1,245 | 339 | 86 | 24 | 1,694 | 32,697 |

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2010

State Industrial

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|--------------|------------|------------|-----------|-----------|--------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 31 | 0 | 0 | 0 | 0 | 0 | 31 | 39,730 |
| 25-29 | 182 | 8 | 0 | 0 | 0 | 0 | 190 | 48,077 |
| 30-34 | 402 | 62 | 4 | 0 | 0 | 0 | 468 | 57,508 |
| 35-39 | 659 | 147 | 40 | 2 | 0 | 0 | 848 | 59,198 |
| 40-44 | 883 | 267 | 77 | 15 | 2 | 0 | 1,244 | 61,878 |
| 45-49 | 1,021 | 351 | 108 | 37 | 7 | 0 | 1,524 | 66,144 |
| 50-54 | 1,021 | 331 | 141 | 49 | 17 | 4 | 1,563 | 66,586 |
| 55-59 | 738 | 207 | 86 | 47 | 16 | 4 | 1,098 | 68,885 |
| 60-64 | 338 | 81 | 37 | 12 | 4 | 2 | 474 | 68,632 |
| 65 and Over | 107 | 40 | 9 | 4 | 1 | 0 | 161 | 98,714 |
| Total | 5,382 | 1,494 | 502 | 166 | 47 | 10 | 7,601 | 64,912 |

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2010

State Industrial

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|------------|-----------|-----------|-----------|----------|--------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 12 | 0 | 0 | 0 | 0 | 0 | 12 | 28,722 |
| 25-29 | 96 | 3 | 0 | 0 | 0 | 0 | 99 | 31,447 |
| 30-34 | 191 | 23 | 3 | 0 | 0 | 0 | 217 | 31,975 |
| 35-39 | 303 | 58 | 8 | 1 | 0 | 0 | 370 | 35,144 |
| 40-44 | 387 | 75 | 27 | 2 | 0 | 0 | 491 | 36,420 |
| 45-49 | 309 | 94 | 29 | 10 | 1 | 1 | 444 | 39,121 |
| 50-54 | 288 | 64 | 21 | 7 | 7 | 0 | 387 | 37,983 |
| 55-59 | 209 | 57 | 6 | 1 | 2 | 0 | 275 | 37,225 |
| 60-64 | 149 | 25 | 3 | 2 | 1 | 0 | 180 | 39,128 |
| 65 and Over | 168 | 22 | 0 | 1 | 0 | 0 | 191 | 38,716 |
| Total | 2,112 | 421 | 97 | 24 | 11 | 1 | 2,666 | 36,769 |

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2010

State Safety

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|------------|------------|-----------|-----------|----------|--------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 12 | 0 | 0 | 0 | 0 | 0 | 12 | 47,262 |
| 25-29 | 140 | 3 | 0 | 0 | 0 | 0 | 143 | 52,743 |
| 30-34 | 319 | 19 | 0 | 0 | 0 | 0 | 338 | 57,443 |
| 35-39 | 421 | 50 | 7 | 0 | 0 | 0 | 478 | 62,533 |
| 40-44 | 488 | 96 | 26 | 4 | 0 | 0 | 614 | 65,816 |
| 45-49 | 687 | 140 | 63 | 19 | 7 | 0 | 916 | 73,980 |
| 50-54 | 775 | 168 | 59 | 38 | 17 | 4 | 1,061 | 76,359 |
| 55-59 | 553 | 114 | 44 | 22 | 8 | 3 | 744 | 73,660 |
| 60-64 | 267 | 72 | 24 | 7 | 1 | 0 | 371 | 74,368 |
| 65 and Over | 81 | 20 | 7 | 2 | 0 | 0 | 110 | 88,736 |
| Total | 3,743 | 682 | 230 | 92 | 33 | 7 | 4,787 | 70,768 |

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2010

State Safety

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|------------|------------|-----------|----------|----------|--------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 57 | 0 | 0 | 0 | 0 | 0 | 57 | 34,529 |
| 25-29 | 234 | 1 | 0 | 0 | 0 | 0 | 235 | 42,815 |
| 30-34 | 412 | 21 | 0 | 0 | 0 | 0 | 433 | 51,162 |
| 35-39 | 545 | 57 | 5 | 1 | 0 | 0 | 608 | 58,140 |
| 40-44 | 603 | 72 | 18 | 3 | 0 | 0 | 696 | 59,313 |
| 45-49 | 616 | 101 | 26 | 10 | 3 | 0 | 756 | 58,228 |
| 50-54 | 644 | 113 | 35 | 6 | 1 | 1 | 800 | 58,506 |
| 55-59 | 493 | 58 | 15 | 4 | 0 | 2 | 572 | 59,063 |
| 60-64 | 318 | 31 | 8 | 4 | 0 | 0 | 361 | 60,942 |
| 65 and Over | 161 | 9 | 4 | 2 | 0 | 0 | 176 | 63,667 |
| Total | 4,083 | 463 | 111 | 30 | 4 | 3 | 4,694 | 57,228 |

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2010

State Peace Officers and Fire Fighters

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|------------|------------|-----------|-----------|----------|--------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 68 | 0 | 0 | 0 | 0 | 0 | 68 | 52,919 |
| 25-29 | 486 | 3 | 0 | 0 | 0 | 0 | 489 | 65,485 |
| 30-34 | 811 | 43 | 5 | 0 | 0 | 0 | 859 | 76,999 |
| 35-39 | 799 | 111 | 10 | 1 | 0 | 0 | 921 | 78,503 |
| 40-44 | 759 | 136 | 38 | 5 | 2 | 0 | 940 | 82,614 |
| 45-49 | 668 | 163 | 75 | 17 | 8 | 0 | 931 | 82,768 |
| 50-54 | 365 | 117 | 56 | 19 | 8 | 2 | 567 | 79,631 |
| 55-59 | 179 | 67 | 34 | 11 | 3 | 2 | 296 | 74,387 |
| 60-64 | 57 | 30 | 8 | 3 | 3 | 5 | 106 | 78,506 |
| 65 and Over | 19 | 4 | 0 | 0 | 0 | 0 | 23 | 81,942 |
| Total | 4,211 | 674 | 226 | 56 | 24 | 9 | 5,200 | 78,107 |

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2010

State Peace Officers and Firefighters

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|------------|------------|-----------|-----------|----------|--------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 336 | 0 | 0 | 0 | 0 | 0 | 336 | 33,992 |
| 25-29 | 942 | 7 | 0 | 0 | 0 | 0 | 949 | 37,240 |
| 30-34 | 931 | 68 | 1 | 0 | 0 | 0 | 1,000 | 37,784 |
| 35-39 | 840 | 109 | 37 | 2 | 0 | 0 | 988 | 39,049 |
| 40-44 | 748 | 146 | 53 | 23 | 1 | 1 | 972 | 40,518 |
| 45-49 | 588 | 162 | 99 | 49 | 32 | 7 | 937 | 44,922 |
| 50-54 | 301 | 93 | 48 | 10 | 6 | 1 | 459 | 39,855 |
| 55-59 | 179 | 41 | 12 | 8 | 4 | 0 | 244 | 39,815 |
| 60-64 | 72 | 15 | 5 | 2 | 1 | 0 | 95 | 39,082 |
| 65 and Over | 22 | 1 | 3 | 0 | 0 | 0 | 26 | 33,176 |
| Total | 4,959 | 642 | 258 | 94 | 44 | 9 | 6,006 | 39,491 |

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2010

California Highway Patrol

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|-----------|-----------|-----------|----------|----------|------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 55,980 |
| 25-29 | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 72,877 |
| 30-34 | 32 | 7 | 0 | 0 | 0 | 0 | 39 | 73,285 |
| 35-39 | 59 | 16 | 7 | 0 | 0 | 0 | 82 | 78,778 |
| 40-44 | 40 | 10 | 6 | 3 | 0 | 0 | 59 | 81,558 |
| 45-49 | 35 | 15 | 8 | 5 | 0 | 0 | 63 | 77,030 |
| 50-54 | 25 | 7 | 8 | 1 | 0 | 0 | 41 | 82,001 |
| 55-59 | 9 | 2 | 2 | 1 | 0 | 0 | 14 | 81,475 |
| 60-64 | 3 | 1 | 1 | 0 | 0 | 0 | 5 | 76,381 |
| 65 and Over | 0 | 1 | 1 | 0 | 1 | 0 | 3 | 113,471 |
| Total | 218 | 59 | 33 | 10 | 1 | 0 | 321 | 78,556 |

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2010

California Highway Patrol

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|-----------|-----------|-----------|----------|----------|------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 65,855 |
| 25-29 | 7 | 0 | 0 | 0 | 0 | 0 | 7 | 69,332 |
| 30-34 | 30 | 10 | 0 | 0 | 0 | 0 | 40 | 66,395 |
| 35-39 | 46 | 24 | 12 | 1 | 0 | 0 | 83 | 67,584 |
| 40-44 | 43 | 20 | 9 | 5 | 1 | 0 | 78 | 54,899 |
| 45-49 | 19 | 23 | 12 | 13 | 2 | 1 | 70 | 64,102 |
| 50-54 | 8 | 11 | 5 | 1 | 0 | 0 | 25 | 51,189 |
| 55-59 | 10 | 4 | 3 | 0 | 1 | 0 | 18 | 45,716 |
| 60-64 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 33,801 |
| 65 and Over | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 40,000 |
| Total | 167 | 95 | 41 | 20 | 4 | 1 | 328 | 60,956 |

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2010

Schools

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|--------------|------------|------------|-----------|----------|---------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 129 | 0 | 0 | 0 | 0 | 0 | 129 | \$39,389 |
| 25-29 | 854 | 13 | 0 | 0 | 0 | 0 | 867 | 49,346 |
| 30-34 | 1,952 | 112 | 0 | 0 | 0 | 0 | 2,064 | 55,440 |
| 35-39 | 2,314 | 233 | 6 | 0 | 0 | 0 | 2,553 | 58,960 |
| 40-44 | 2,350 | 379 | 65 | 1 | 0 | 0 | 2,795 | 60,445 |
| 45-49 | 2,942 | 564 | 147 | 41 | 0 | 0 | 3,694 | 60,776 |
| 50-54 | 3,449 | 681 | 189 | 55 | 21 | 0 | 4,395 | 59,803 |
| 55-59 | 2,962 | 652 | 203 | 68 | 21 | 3 | 3,909 | 60,010 |
| 60-64 | 1,572 | 348 | 104 | 26 | 9 | 3 | 2,062 | 58,266 |
| 65 and Over | 488 | 102 | 29 | 9 | 3 | 2 | 633 | 51,835 |
| Total | 19,012 | 3,084 | 743 | 200 | 54 | 8 | 23,101 | \$58,726 |

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2010

Schools

| Attained Age | Years of Service at Valuation Date | | | | | | Total | Average Salary |
|-----------------|------------------------------------|---------------|--------------|------------|------------|-----------|----------------|-------------------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25+ | | |
| 15-24 | 3,739 | 0 | 0 | 0 | 0 | 0 | 3,739 | \$27,374 |
| 25-29 | 14,483 | 171 | 0 | 0 | 0 | 0 | 14,654 | 29,623 |
| 30-34 | 20,338 | 675 | 6 | 0 | 0 | 0 | 21,019 | 31,079 |
| 35-39 | 19,090 | 1,195 | 25 | 1 | 0 | 0 | 20,311 | 31,807 |
| 40-44 | 17,191 | 1,711 | 196 | 6 | 1 | 0 | 19,105 | 31,833 |
| 45-49 | 18,444 | 2,344 | 504 | 116 | 9 | 0 | 21,417 | 31,680 |
| 50-54 | 19,180 | 2,747 | 611 | 232 | 78 | 2 | 22,850 | 31,916 |
| 55-59 | 15,945 | 2,325 | 604 | 163 | 44 | 8 | 19,089 | 30,954 |
| 60-64 | 9,409 | 1,299 | 294 | 74 | 27 | 9 | 11,112 | 30,168 |
| 65 and Over | 5,374 | 527 | 107 | 31 | 18 | 7 | 6,064 | 27,923 |
| Total | 143,193 | 12,994 | 2,347 | 623 | 177 | 26 | 159,360 | \$31,044 |

Retired Members and Beneficiaries

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

State Miscellaneous Tier 1

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|--------------|--------------------|---------------------------|-----------------------|----------------------|------------------|------------------------|----------------|
| Under 30 | 1 | 0 | 1 | 8 | 5 | 189 | 204 |
| 30-34 | 0 | 10 | 6 | 2 | 2 | 120 | 140 |
| 35-39 | 0 | 37 | 17 | 7 | 3 | 131 | 195 |
| 40-44 | 1 | 159 | 49 | 12 | 6 | 199 | 426 |
| 45-49 | 3 | 529 | 212 | 42 | 11 | 300 | 1,097 |
| 50-54 | 1,857 | 1,299 | 337 | 106 | 9 | 528 | 4,136 |
| 55-59 | 11,139 | 1,898 | 426 | 202 | 3 | 845 | 14,513 |
| 60-64 | 22,555 | 1,998 | 438 | 248 | 9 | 1,330 | 26,578 |
| 65-69 | 22,543 | 1,704 | 292 | 264 | 4 | 1,828 | 26,635 |
| 70-74 | 18,262 | 1,252 | 216 | 276 | 10 | 2,456 | 22,472 |
| 75-79 | 15,222 | 815 | 135 | 235 | 6 | 3,274 | 19,687 |
| 80-84 | 12,319 | 589 | 65 | 217 | 2 | 4,259 | 17,451 |
| 85 and Over | 13,216 | 565 | 37 | 224 | 7 | 6,812 | 20,861 |
| Total | 117,118 | 10,855 | 2,231 | 1,843 | 77 | 22,271 | 154,395 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

State Miscellaneous Tier 1

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|
| Under 30 | \$32,911 | \$0 | \$19 | \$84,191 | \$345 | \$1,345,203 | \$1,462,669 |
| 30-34 | 0 | 54,403 | 19,265 | 30,435 | 103 | 932,968 | 1,037,174 |
| 35-39 | 0 | 201,080 | 74,612 | 120,849 | 25,123 | 1,217,399 | 1,639,063 |
| 40-44 | 21,712 | 1,530,617 | 127,793 | 190,370 | 27,283 | 2,309,880 | 4,207,655 |
| 45-49 | 24,656 | 6,175,466 | 449,995 | 663,233 | 93,737 | 3,157,526 | 10,564,613 |
| 50-54 | 21,662,229 | 17,259,966 | 909,032 | 2,209,441 | 97,238 | 7,194,511 | 49,332,417 |
| 55-59 | 290,426,985 | 27,519,011 | 1,152,618 | 4,141,789 | 27,568 | 12,148,117 | 335,416,088 |
| 60-64 | 676,216,551 | 28,380,769 | 1,526,909 | 5,709,508 | 50,809 | 23,927,215 | 735,811,761 |
| 65-69 | 692,583,717 | 25,783,319 | 1,202,219 | 6,327,295 | 6,253 | 37,583,257 | 763,486,060 |
| 70-74 | 547,994,567 | 18,473,757 | 873,070 | 6,707,031 | 13,966 | 53,522,262 | 627,584,653 |
| 75-79 | 435,328,897 | 10,932,174 | 499,236 | 5,729,367 | 7,429 | 70,851,739 | 523,348,842 |
| 80-84 | 330,690,819 | 7,361,988 | 136,160 | 4,903,328 | 1,164 | 81,825,133 | 424,918,592 |
| 85 and Over | 279,028,808 | 6,874,197 | 72,841 | 5,307,379 | 53,222 | 104,406,196 | 395,742,643 |
| Total | \$3,274,011,852 | \$150,546,747 | \$7,043,769 | \$42,124,216 | \$404,240 | \$400,421,406 | \$3,874,552,230 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

State Miscellaneous Tier 1

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|----------------|
| Under 5 Yrs | 33,401 | 1,445 | 280 | 345 | 10 | 704 | 36,185 |
| 5-9 | 29,341 | 2,318 | 518 | 313 | 6 | 1,722 | 34,218 |
| 10-14 | 17,489 | 2,586 | 442 | 272 | 16 | 2,194 | 22,999 |
| 15-19 | 15,267 | 1,719 | 443 | 268 | 7 | 3,427 | 21,131 |
| 20-24 | 10,107 | 1,134 | 275 | 231 | 15 | 3,999 | 15,761 |
| 25-29 | 7,594 | 786 | 168 | 259 | 7 | 4,830 | 13,644 |
| 30 and Over | 4,056 | 867 | 105 | 155 | 16 | 5,395 | 10,594 |
| Total | 117,255 | 10,855 | 2,231 | 1,843 | 77 | 22,271 | 154,532 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

State Miscellaneous Tier 1

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|
| Under 5 Yrs | \$1,045,306,320 | \$20,918,155 | \$1,486,245 | \$7,556,832 | \$65,241 | \$12,644,966 | \$1,087,977,759 |
| 5-9 | 935,893,067 | 35,290,855 | 2,534,021 | 7,620,770 | 1,900 | 38,292,768 | 1,019,633,381 |
| 10-14 | 473,840,328 | 37,782,399 | 1,355,624 | 6,951,634 | 229,141 | 49,929,058 | 570,088,184 |
| 15-19 | 417,290,915 | 24,606,028 | 1,031,319 | 6,506,667 | 27,986 | 86,530,789 | 535,993,704 |
| 20-24 | 226,771,556 | 14,196,314 | 403,895 | 5,713,973 | 15,836 | 85,573,108 | 332,674,682 |
| 25-29 | 123,874,697 | 8,461,622 | 158,328 | 4,998,101 | 4,638 | 74,650,020 | 212,147,406 |
| 30 and Over | 52,697,321 | 9,291,374 | 74,337 | 2,776,239 | 59,498 | 52,800,697 | 117,699,466 |
| Total | \$3,275,674,204 | \$150,546,747 | \$7,043,769 | \$42,124,216 | \$404,240 | \$400,421,406 | \$3,876,214,582 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

State Miscellaneous Tier 2

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|--------------|
| Under 30 | 0 | 0 | 0 | 2 | 0 | 30 | 32 |
| 30-34 | 0 | 2 | 0 | 0 | 0 | 12 | 14 |
| 35-39 | 0 | 4 | 3 | 0 | 0 | 14 | 21 |
| 40-44 | 0 | 27 | 7 | 2 | 0 | 19 | 55 |
| 45-49 | 0 | 100 | 8 | 1 | 0 | 30 | 139 |
| 50-54 | 40 | 231 | 15 | 16 | 0 | 48 | 350 |
| 55-59 | 261 | 308 | 10 | 26 | 2 | 78 | 685 |
| 60-64 | 495 | 328 | 14 | 15 | 0 | 87 | 939 |
| 65-69 | 478 | 191 | 4 | 11 | 0 | 87 | 771 |
| 70-74 | 435 | 113 | 2 | 9 | 0 | 82 | 641 |
| 75-79 | 352 | 42 | 1 | 4 | 0 | 60 | 459 |
| 80-84 | 140 | 4 | 1 | 4 | 0 | 35 | 184 |
| 85 and Over | 45 | 1 | 0 | 3 | 0 | 16 | 65 |
| Total | 2,246 | 1,351 | 65 | 93 | 2 | 598 | 4,355 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

State Miscellaneous Tier 2

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|---------------------|
| Under 30 | \$0 | \$0 | \$0 | \$8,620 | \$0 | \$132,268 | \$140,888 |
| 30-34 | 0 | 25,594 | 0 | 0 | 0 | 84,288 | 109,882 |
| 35-39 | 0 | 50,281 | 71,198 | 0 | 0 | 78,649 | 200,128 |
| 40-44 | 0 | 294,068 | 158,562 | 7,637 | 0 | 114,557 | 574,824 |
| 45-49 | 0 | 1,063,904 | 194,332 | 7,223 | 0 | 319,012 | 1,584,471 |
| 50-54 | 126,217 | 2,841,590 | 248,574 | 107,960 | 0 | 420,733 | 3,745,074 |
| 55-59 | 914,720 | 4,180,566 | 193,032 | 272,582 | 44,479 | 818,359 | 6,423,738 |
| 60-64 | 2,627,488 | 4,434,703 | 262,367 | 116,653 | 0 | 1,035,420 | 8,476,631 |
| 65-69 | 3,019,383 | 2,661,185 | 24,109 | 97,935 | 0 | 838,183 | 6,640,795 |
| 70-74 | 3,603,940 | 1,596,847 | 43,463 | 91,656 | 0 | 816,548 | 6,152,454 |
| 75-79 | 3,672,559 | 584,233 | 22,472 | 82,615 | 0 | 724,780 | 5,086,659 |
| 80-84 | 1,439,048 | 70,316 | 29,653 | 138,055 | 0 | 376,562 | 2,053,634 |
| 85 and Over | 498,111 | 21,345 | 0 | 76,785 | 0 | 161,669 | 757,910 |
| Total | \$15,901,466 | \$17,824,632 | \$1,247,762 | \$1,007,721 | \$44,479 | \$5,921,028 | \$41,947,088 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

State Miscellaneous Tier 2

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|--------------|
| Under 5 Yrs | 570 | 116 | 4 | 33 | 0 | 32 | 755 |
| 5-9 | 436 | 279 | 17 | 22 | 0 | 84 | 838 |
| 10-14 | 835 | 543 | 28 | 17 | 1 | 218 | 1,642 |
| 15-19 | 289 | 271 | 11 | 12 | 1 | 158 | 742 |
| 20-24 | 116 | 138 | 5 | 9 | 0 | 101 | 369 |
| 25-29 | 7 | 4 | 0 | 0 | 0 | 5 | 16 |
| 30 and Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2,253 | 1,351 | 65 | 93 | 2 | 598 | 4,362 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

State Miscellaneous Tier 2

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|---------------------|
| Under 5 Yrs | \$3,157,775 | \$1,203,960 | \$63,412 | \$220,084 | \$0 | \$220,222 | \$4,865,453 |
| 5-9 | 1,795,847 | 3,078,702 | 312,333 | 136,879 | 0 | 637,533 | 5,961,294 |
| 10-14 | 7,106,992 | 7,215,219 | 509,803 | 282,761 | 30,354 | 2,081,797 | 17,226,926 |
| 15-19 | 2,850,801 | 4,303,940 | 272,263 | 255,264 | 14,125 | 1,933,845 | 9,630,238 |
| 20-24 | 980,485 | 1,962,164 | 89,951 | 112,733 | 0 | 1,010,106 | 4,155,439 |
| 25-29 | 46,492 | 60,647 | 0 | 0 | 0 | 37,525 | 144,664 |
| 30 and Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | \$15,938,392 | \$17,824,632 | \$1,247,762 | \$1,007,721 | \$44,479 | \$5,921,028 | \$41,984,014 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

State Industrial

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|--------------|--------------------|---------------------------|-----------------------|----------------------|------------------|------------------------|--------------|
| Under 30 | 0 | 0 | 0 | 2 | 0 | 10 | 12 |
| 30-34 | 0 | 1 | 1 | 0 | 0 | 12 | 14 |
| 35-39 | 0 | 7 | 8 | 0 | 0 | 9 | 24 |
| 40-44 | 0 | 41 | 6 | 0 | 0 | 10 | 57 |
| 45-49 | 0 | 72 | 45 | 4 | 0 | 20 | 141 |
| 50-54 | 253 | 185 | 64 | 7 | 0 | 35 | 544 |
| 55-59 | 1,172 | 218 | 84 | 9 | 0 | 63 | 1,546 |
| 60-64 | 1,713 | 225 | 72 | 10 | 0 | 73 | 2,093 |
| 65-69 | 1,410 | 148 | 55 | 15 | 2 | 108 | 1,738 |
| 70-74 | 903 | 99 | 26 | 13 | 2 | 85 | 1,128 |
| 75-79 | 639 | 47 | 21 | 8 | 2 | 112 | 829 |
| 80-84 | 400 | 22 | 8 | 4 | 5 | 120 | 559 |
| 85 and Over | 349 | 19 | 9 | 2 | 5 | 198 | 582 |
| Total | 6,839 | 1,084 | 399 | 74 | 16 | 855 | 9,267 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

State Industrial

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|----------------------|
| Under 30 | \$0 | \$0 | \$0 | \$3,409 | \$0 | \$23,730 | \$27,139 |
| 30-34 | 0 | 3,397 | 62 | 0 | 0 | 43,090 | 46,549 |
| 35-39 | 0 | 27,157 | 40,768 | 0 | 0 | 28,625 | 96,550 |
| 40-44 | 0 | 256,985 | 55,126 | 0 | 0 | 60,008 | 372,119 |
| 45-49 | 0 | 614,428 | 122,733 | 24,068 | 0 | 39,294 | 800,523 |
| 50-54 | 1,636,521 | 1,564,824 | 325,924 | 58,085 | 0 | 231,730 | 3,817,084 |
| 55-59 | 12,935,387 | 1,509,503 | 403,753 | 47,818 | 0 | 387,948 | 15,284,409 |
| 60-64 | 20,495,149 | 1,864,913 | 407,794 | 70,360 | 0 | 560,793 | 23,399,009 |
| 65-69 | 18,022,847 | 1,208,875 | 314,440 | 190,335 | 18,287 | 780,391 | 20,535,175 |
| 70-74 | 12,359,732 | 992,933 | 191,362 | 330,844 | 19,868 | 778,005 | 14,672,744 |
| 75-79 | 9,143,244 | 542,232 | 165,320 | 97,499 | 47,852 | 1,252,568 | 11,248,715 |
| 80-84 | 5,969,638 | 282,883 | 100,264 | 95,001 | 115,101 | 1,596,137 | 8,159,024 |
| 85 and Over | 5,826,651 | 263,555 | 254,635 | 50,805 | 145,338 | 2,947,189 | 9,488,173 |
| Total | \$86,389,169 | \$9,131,685 | \$2,382,181 | \$968,224 | \$346,446 | \$8,729,508 | \$107,947,213 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

State Industrial

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|--------------|
| Under 5 Yrs | 2,849 | 193 | 71 | 19 | 0 | 53 | 3,185 |
| 5-9 | 1,939 | 358 | 138 | 17 | 0 | 123 | 2,575 |
| 10-14 | 943 | 271 | 76 | 13 | 1 | 139 | 1,443 |
| 15-19 | 530 | 150 | 56 | 19 | 0 | 150 | 905 |
| 20-24 | 298 | 70 | 30 | 2 | 1 | 115 | 516 |
| 25-29 | 227 | 25 | 18 | 4 | 0 | 133 | 407 |
| 30 and Over | 61 | 17 | 10 | 0 | 14 | 142 | 244 |
| Total | 6,847 | 1,084 | 399 | 74 | 16 | 855 | 9,275 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

State Industrial

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|----------------------|
| Under 5 Yrs | \$37,002,348 | \$1,665,135 | \$522,930 | \$304,021 | \$0 | \$338,529 | \$39,832,963 |
| 5-9 | 25,062,871 | 3,082,836 | 640,245 | 196,382 | 0 | 1,194,832 | 30,177,166 |
| 10-14 | 10,188,821 | 2,245,409 | 399,904 | 161,493 | 69 | 931,905 | 13,927,601 |
| 15-19 | 7,004,180 | 1,092,395 | 298,038 | 258,210 | 0 | 1,704,469 | 10,357,292 |
| 20-24 | 3,512,567 | 589,754 | 174,551 | 15,340 | 1,333 | 1,543,568 | 5,837,113 |
| 25-29 | 2,924,556 | 247,099 | 101,916 | 32,778 | 0 | 1,599,803 | 4,906,152 |
| 30 and Over | 740,471 | 209,057 | 244,597 | 0 | 345,044 | 1,416,402 | 2,955,571 |
| Total | \$86,435,814 | \$9,131,685 | \$2,382,181 | \$968,224 | \$346,446 | \$8,729,508 | \$107,993,858 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

State Safety

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|---------------|
| Under 30 | 0 | 0 | 4 | 3 | 2 | 20 | 29 |
| 30-34 | 0 | 1 | 12 | 0 | 0 | 10 | 23 |
| 35-39 | 0 | 2 | 23 | 0 | 1 | 14 | 40 |
| 40-44 | 0 | 10 | 63 | 0 | 2 | 17 | 92 |
| 45-49 | 0 | 21 | 162 | 6 | 0 | 28 | 217 |
| 50-54 | 367 | 71 | 349 | 21 | 7 | 61 | 876 |
| 55-59 | 1,531 | 102 | 625 | 38 | 14 | 98 | 2,408 |
| 60-64 | 2,641 | 134 | 800 | 42 | 9 | 179 | 3,805 |
| 65-69 | 2,194 | 94 | 571 | 24 | 10 | 230 | 3,123 |
| 70-74 | 1,467 | 61 | 386 | 32 | 16 | 240 | 2,202 |
| 75-79 | 857 | 39 | 286 | 13 | 16 | 334 | 1,545 |
| 80-84 | 575 | 22 | 167 | 7 | 18 | 418 | 1,207 |
| 85 and Over | 450 | 19 | 119 | 15 | 13 | 545 | 1,161 |
| Total | 10,082 | 576 | 3,567 | 201 | 108 | 2,194 | 16,728 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

State Safety

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|----------------------|
| Under 30 | \$0 | \$0 | \$94,622 | \$88,187 | \$40,881 | \$137,231 | \$360,921 |
| 30-34 | 0 | 11,903 | 281,405 | 0 | 0 | 64,176 | 357,484 |
| 35-39 | 0 | 5,445 | 531,919 | 0 | 51,451 | 118,574 | 707,390 |
| 40-44 | 0 | 61,418 | 1,405,976 | 0 | 65,477 | 134,442 | 1,667,313 |
| 45-49 | 0 | 162,534 | 3,527,600 | 94,955 | 0 | 241,781 | 4,026,870 |
| 50-54 | 3,122,271 | 461,226 | 6,465,192 | 221,657 | 40,038 | 788,442 | 11,098,827 |
| 55-59 | 26,986,786 | 862,742 | 12,689,942 | 495,625 | 333,460 | 1,148,870 | 42,517,425 |
| 60-64 | 47,046,519 | 1,296,547 | 16,394,903 | 558,041 | 203,715 | 2,031,908 | 67,531,632 |
| 65-69 | 37,676,397 | 903,577 | 12,279,757 | 338,086 | 175,255 | 3,148,703 | 54,521,776 |
| 70-74 | 24,246,212 | 644,124 | 8,735,731 | 521,393 | 353,392 | 2,948,168 | 37,449,021 |
| 75-79 | 12,967,408 | 444,804 | 6,490,871 | 241,487 | 310,404 | 4,176,519 | 24,631,492 |
| 80-84 | 9,303,168 | 301,839 | 3,653,613 | 107,880 | 316,836 | 5,309,160 | 18,992,497 |
| 85 and Over | 7,844,964 | 229,376 | 2,432,875 | 185,900 | 230,510 | 6,162,736 | 17,086,362 |
| Total | \$169,193,726 | \$5,385,536 | \$74,984,406 | \$2,853,212 | \$2,121,420 | \$26,410,709 | \$280,949,009 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

State Safety

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|---------------|
| Under 5 Yrs | 4,273 | 143 | 496 | 55 | 6 | 83 | 5,056 |
| 5-9 | 2,969 | 148 | 875 | 56 | 5 | 220 | 4,273 |
| 10-14 | 1,364 | 144 | 571 | 38 | 11 | 230 | 2,358 |
| 15-19 | 606 | 62 | 383 | 18 | 1 | 199 | 1,269 |
| 20-24 | 261 | 24 | 253 | 11 | 8 | 183 | 740 |
| 25-29 | 360 | 23 | 545 | 12 | 22 | 526 | 1,488 |
| 30 and Over | 249 | 32 | 444 | 11 | 55 | 753 | 1,544 |
| Total | 10,082 | 576 | 3,567 | 201 | 108 | 2,194 | 16,728 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

State Safety

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|----------------------|
| Under 5 Yrs | \$87,279,721 | \$1,891,183 | \$12,043,966 | \$565,303 | \$103,540 | \$872,483 | \$102,756,195 |
| 5-9 | 45,359,210 | 1,419,851 | 19,937,680 | 950,634 | 130,916 | 3,101,094 | 70,899,385 |
| 10-14 | 15,909,301 | 1,117,001 | 12,468,123 | 516,539 | 293,261 | 2,836,456 | 33,140,681 |
| 15-19 | 6,741,951 | 348,820 | 7,560,079 | 327,777 | 13,704 | 2,283,171 | 17,275,502 |
| 20-24 | 3,420,804 | 108,424 | 4,840,515 | 130,899 | 156,287 | 2,496,919 | 11,153,849 |
| 25-29 | 6,618,136 | 258,297 | 10,636,417 | 187,884 | 463,470 | 7,523,806 | 25,688,009 |
| 30 and Over | 3,864,601 | 241,960 | 7,497,626 | 174,177 | 960,243 | 7,296,780 | 20,035,387 |
| Total | \$169,193,726 | \$5,385,536 | \$74,984,406 | \$2,853,212 | \$2,121,420 | \$26,410,709 | \$280,949,009 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

State Peace Officers and Firefighters

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|---------------|
| Under 30 | 0 | 0 | 9 | 5 | 9 | 39 | 62 |
| 30-34 | 0 | 1 | 43 | 0 | 1 | 20 | 65 |
| 35-39 | 0 | 9 | 231 | 1 | 3 | 19 | 263 |
| 40-44 | 0 | 16 | 503 | 4 | 13 | 23 | 559 |
| 45-49 | 0 | 63 | 1,072 | 14 | 23 | 44 | 1,216 |
| 50-54 | 2,246 | 78 | 1,308 | 26 | 19 | 113 | 3,790 |
| 55-59 | 3,592 | 73 | 1,415 | 35 | 21 | 184 | 5,320 |
| 60-64 | 3,974 | 80 | 1,406 | 53 | 17 | 242 | 5,772 |
| 65-69 | 2,486 | 47 | 816 | 23 | 15 | 254 | 3,641 |
| 70-74 | 1,421 | 34 | 371 | 15 | 9 | 227 | 2,077 |
| 75-79 | 805 | 18 | 165 | 10 | 4 | 206 | 1,208 |
| 80-84 | 395 | 7 | 67 | 4 | 0 | 133 | 606 |
| 85 and Over | 126 | 1 | 12 | 1 | 0 | 51 | 191 |
| Total | 15,045 | 427 | 7,418 | 191 | 134 | 1,555 | 24,770 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

State Peace Officers and Firefighters

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|
| Under 30 | \$0 | \$0 | \$217,581 | \$130,703 | \$191,030 | \$434,119 | \$973,433 |
| 30-34 | 0 | 365 | 1,235,186 | 0 | 35,619 | 414,115 | 1,685,285 |
| 35-39 | 0 | 116,364 | 6,679,823 | 30,542 | 147,780 | 344,333 | 7,318,842 |
| 40-44 | 0 | 175,828 | 14,949,377 | 121,920 | 523,462 | 474,709 | 16,245,296 |
| 45-49 | 0 | 1,032,396 | 32,353,713 | 576,718 | 834,735 | 826,056 | 35,623,618 |
| 50-54 | 139,901,991 | 1,410,365 | 42,382,440 | 854,598 | 664,105 | 2,935,193 | 188,148,692 |
| 55-59 | 202,799,755 | 1,556,809 | 51,326,520 | 1,305,285 | 701,917 | 5,708,333 | 263,398,619 |
| 60-64 | 204,251,980 | 1,754,583 | 53,495,538 | 1,960,758 | 551,713 | 7,510,430 | 269,525,002 |
| 65-69 | 113,426,618 | 1,011,694 | 29,725,084 | 802,989 | 514,336 | 8,029,130 | 153,509,851 |
| 70-74 | 58,333,005 | 1,014,004 | 13,172,370 | 484,232 | 305,358 | 7,500,849 | 80,809,818 |
| 75-79 | 30,413,934 | 362,460 | 5,505,202 | 306,100 | 166,068 | 6,322,597 | 43,076,361 |
| 80-84 | 13,389,329 | 157,156 | 2,103,072 | 106,241 | 0 | 3,754,825 | 19,510,623 |
| 85 and Over | 3,881,780 | 8,933 | 407,704 | 58,154 | 0 | 1,234,374 | 5,590,945 |
| Total | \$766,398,392 | \$8,600,957 | \$253,553,610 | \$6,738,240 | \$4,636,123 | \$45,489,063 | \$1,085,416,385 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

State Peace Officers and Firefighters

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|---------------|
| Under 5 Yrs | 7,415 | 96 | 1,287 | 57 | 21 | 87 | 8,963 |
| 5-9 | 3,863 | 123 | 2,250 | 49 | 36 | 270 | 6,591 |
| 10-14 | 1,861 | 121 | 1,623 | 48 | 32 | 286 | 3,971 |
| 15-19 | 1,087 | 53 | 1,302 | 27 | 11 | 338 | 2,818 |
| 20-24 | 663 | 32 | 880 | 7 | 27 | 429 | 2,038 |
| 25-29 | 184 | 1 | 76 | 3 | 7 | 143 | 414 |
| 30 and Over | 0 | 1 | 0 | 0 | 0 | 2 | 3 |
| Total | 15,073 | 427 | 7,418 | 191 | 134 | 1,555 | 24,798 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

State Peace Officers and Firefighters

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|
| Under 5 Yrs | \$431,309,419 | \$2,708,496 | \$56,558,617 | \$2,136,797 | \$932,598 | \$3,160,428 | \$496,806,355 |
| 5-9 | 188,314,260 | 2,227,038 | 80,332,040 | 1,749,423 | 1,187,071 | 8,553,958 | 282,363,790 |
| 10-14 | 72,491,858 | 2,096,276 | 51,727,550 | 1,652,668 | 1,100,004 | 7,970,651 | 137,039,007 |
| 15-19 | 45,161,701 | 928,310 | 40,929,168 | 892,570 | 382,180 | 10,575,205 | 98,869,134 |
| 20-24 | 23,780,980 | 613,124 | 22,230,026 | 178,077 | 883,526 | 11,573,869 | 59,259,602 |
| 25-29 | 5,856,688 | 27,015 | 1,776,209 | 128,705 | 150,744 | 3,641,915 | 11,581,276 |
| 30 and Over | 0 | 698 | 0 | 0 | 0 | 13,037 | 13,735 |
| Total | \$766,914,906 | \$8,600,957 | \$253,553,610 | \$6,738,240 | \$4,636,123 | \$45,489,063 | \$1,085,932,899 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

California Highway Patrol

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|--------------|
| Under 30 | 0 | 0 | 1 | 0 | 10 | 8 | 19 |
| 30-34 | 0 | 0 | 3 | 0 | 2 | 4 | 9 |
| 35-39 | 0 | 1 | 28 | 0 | 5 | 4 | 38 |
| 40-44 | 0 | 1 | 61 | 1 | 9 | 3 | 75 |
| 45-49 | 0 | 1 | 172 | 0 | 17 | 10 | 200 |
| 50-54 | 518 | 7 | 311 | 4 | 13 | 21 | 874 |
| 55-59 | 508 | 5 | 390 | 7 | 7 | 40 | 957 |
| 60-64 | 521 | 6 | 632 | 6 | 21 | 96 | 1,282 |
| 65-69 | 614 | 6 | 873 | 5 | 15 | 141 | 1,654 |
| 70-74 | 327 | 8 | 588 | 2 | 20 | 180 | 1,125 |
| 75-79 | 178 | 4 | 348 | 1 | 10 | 162 | 703 |
| 80-84 | 139 | 3 | 167 | 1 | 7 | 169 | 486 |
| 85 and Over | 97 | 0 | 66 | 1 | 8 | 201 | 373 |
| Total | 2,902 | 42 | 3,640 | 28 | 144 | 1,039 | 7,795 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

California Highway Patrol

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|----------------------|
| Under 30 | \$0 | \$0 | \$11,048 | \$0 | \$279,904 | \$53,243 | \$344,195 |
| 30-34 | 0 | 0 | 121,548 | 0 | 101,752 | 45,318 | 268,618 |
| 35-39 | 0 | 6,553 | 1,147,858 | 0 | 263,999 | 15,984 | 1,434,394 |
| 40-44 | 0 | 7,808 | 2,140,546 | 31,933 | 602,299 | 28,194 | 2,810,780 |
| 45-49 | 0 | 20,652 | 5,569,439 | 0 | 951,292 | 329,342 | 6,870,725 |
| 50-54 | 44,884,193 | 101,369 | 14,146,801 | 236,559 | 800,094 | 730,468 | 60,899,484 |
| 55-59 | 39,015,031 | 78,487 | 21,953,246 | 439,526 | 254,000 | 1,037,050 | 62,777,340 |
| 60-64 | 31,855,398 | 315,998 | 34,877,795 | 322,123 | 527,488 | 2,710,159 | 70,608,961 |
| 65-69 | 29,907,205 | 170,275 | 38,268,065 | 196,110 | 406,564 | 3,928,403 | 72,876,622 |
| 70-74 | 13,069,799 | 93,772 | 21,576,143 | 67,080 | 498,991 | 4,542,846 | 39,848,631 |
| 75-79 | 6,824,981 | 105,564 | 12,539,100 | 5,982 | 231,654 | 3,904,642 | 23,611,923 |
| 80-84 | 4,449,356 | 74,006 | 5,629,903 | 29,771 | 168,118 | 3,363,152 | 13,714,306 |
| 85 and Over | 3,449,040 | 0 | 2,041,317 | 27,020 | 195,501 | 3,706,930 | 9,419,808 |
| Total | \$173,455,003 | \$974,484 | \$160,022,809 | \$1,356,104 | \$5,281,656 | \$24,395,731 | \$365,485,787 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

California Highway Patrol

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|--------------|
| Under 5 Yrs | 1,114 | 3 | 359 | 5 | 19 | 8 | 1,508 |
| 5-9 | 579 | 6 | 669 | 7 | 14 | 42 | 1,317 |
| 10-14 | 537 | 11 | 550 | 7 | 16 | 74 | 1,195 |
| 15-19 | 271 | 4 | 619 | 3 | 12 | 101 | 1,010 |
| 20-24 | 165 | 7 | 534 | 2 | 10 | 127 | 845 |
| 25-29 | 129 | 4 | 436 | 2 | 16 | 232 | 819 |
| 30 and Over | 117 | 7 | 473 | 2 | 57 | 455 | 1,111 |
| Total | 2,912 | 42 | 3,640 | 28 | 144 | 1,039 | 7,805 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

California Highway Patrol

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|----------------------|
| Under 5 Yrs | \$90,098,846 | \$255,952 | \$26,484,841 | \$266,207 | \$1,141,114 | \$441,772 | \$118,688,732 |
| 5-9 | 33,721,708 | 204,187 | 44,093,241 | 526,283 | 740,852 | 1,999,569 | 81,285,840 |
| 10-14 | 25,114,202 | 196,737 | 26,273,255 | 308,233 | 672,732 | 2,503,382 | 55,068,541 |
| 15-19 | 10,593,272 | 37,621 | 24,055,930 | 118,574 | 478,682 | 3,442,394 | 38,726,473 |
| 20-24 | 6,182,280 | 149,847 | 17,341,407 | 67,080 | 436,107 | 3,625,438 | 27,802,159 |
| 25-29 | 4,112,629 | 61,759 | 10,758,360 | 12,936 | 448,520 | 5,058,667 | 20,452,871 |
| 30 and Over | 3,862,155 | 68,381 | 11,015,775 | 56,791 | 1,363,649 | 7,324,509 | 23,691,260 |
| Total | \$173,685,092 | \$974,484 | \$160,022,809 | \$1,356,104 | \$5,281,656 | \$24,395,731 | \$365,715,876 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

Schools

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|----------------|
| Under 30 | 0 | 0 | 0 | 6 | 0 | 180 | 186 |
| 30-34 | 1 | 6 | 1 | 0 | 0 | 84 | 92 |
| 35-39 | 1 | 31 | 11 | 3 | 0 | 122 | 168 |
| 40-44 | 0 | 109 | 31 | 5 | 0 | 199 | 344 |
| 45-49 | 0 | 470 | 56 | 8 | 3 | 332 | 869 |
| 50-54 | 1,756 | 1,210 | 91 | 39 | 3 | 504 | 3,603 |
| 55-59 | 11,306 | 1,948 | 164 | 99 | 1 | 836 | 14,354 |
| 60-64 | 26,298 | 2,187 | 171 | 134 | 2 | 1,329 | 30,121 |
| 65-69 | 30,059 | 2,069 | 102 | 114 | 1 | 1,790 | 34,135 |
| 70-74 | 24,982 | 1,547 | 54 | 81 | 4 | 2,459 | 29,127 |
| 75-79 | 20,584 | 1,028 | 22 | 64 | 2 | 3,236 | 24,936 |
| 80-84 | 15,870 | 728 | 14 | 38 | 1 | 4,003 | 20,654 |
| 85 and Over | 16,160 | 646 | 4 | 35 | 0 | 6,233 | 23,078 |
| Total | 147,017 | 11,979 | 721 | 626 | 17 | 21,307 | 181,667 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

Schools

| Attained Age | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|---------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|
| Under 30 | \$0 | \$0 | \$0 | \$41,725 | \$0 | \$749,373 | \$791,098 |
| 30-34 | 3,698 | 27,982 | 337 | 0 | 0 | 512,550 | 544,567 |
| 35-39 | 3,698 | 207,289 | 2,954 | 13,064 | 0 | 742,706 | 969,711 |
| 40-44 | 0 | 955,435 | 18,720 | 35,092 | 0 | 1,173,543 | 2,182,790 |
| 45-49 | 0 | 4,466,839 | 57,373 | 78,317 | 1,020 | 2,340,559 | 6,944,108 |
| 50-54 | 13,999,515 | 12,416,222 | 93,404 | 389,261 | 3,039 | 4,001,511 | 30,902,952 |
| 55-59 | 166,750,809 | 21,154,944 | 266,276 | 634,010 | 19 | 7,140,587 | 195,946,645 |
| 60-64 | 446,574,674 | 22,956,299 | 369,446 | 980,525 | 1,087 | 12,521,734 | 483,403,765 |
| 65-69 | 489,421,724 | 20,730,160 | 161,485 | 820,989 | 3,082 | 16,878,688 | 528,016,128 |
| 70-74 | 355,374,758 | 14,251,368 | 95,738 | 488,243 | 2,171 | 23,089,518 | 393,301,796 |
| 75-79 | 253,815,305 | 8,514,527 | 127,886 | 374,045 | 118 | 27,422,528 | 290,254,409 |
| 80-84 | 171,906,726 | 5,660,533 | 8,258 | 241,756 | 248 | 31,408,563 | 209,226,084 |
| 85 and Over | 148,484,237 | 4,435,877 | 767 | 245,093 | 0 | 39,236,251 | 192,402,225 |
| Total | \$2,046,335,144 | \$115,777,475 | \$1,202,644 | \$4,342,120 | \$10,784 | \$167,218,111 | \$2,334,886,278 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

Schools

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|----------------|
| Under 5 Yrs | 42,874 | 1,566 | 133 | 238 | 1 | 966 | 45,778 |
| 5-9 | 35,744 | 2,675 | 227 | 176 | 2 | 1,968 | 40,792 |
| 10-14 | 23,911 | 2,903 | 115 | 80 | 1 | 2,759 | 29,769 |
| 15-19 | 18,744 | 2,152 | 108 | 52 | 1 | 3,595 | 24,652 |
| 20-24 | 12,791 | 1,120 | 58 | 41 | 5 | 3,806 | 17,821 |
| 25-29 | 8,497 | 708 | 50 | 15 | 5 | 4,297 | 13,572 |
| 30 and Over | 4,479 | 855 | 30 | 24 | 2 | 3,916 | 9,306 |
| Total | 147,040 | 11,979 | 721 | 626 | 17 | 21,307 | 181,690 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2010

Annual Amounts not Including PPPA Payments

Schools

| Years Retired | Service Retirement | Non-Industrial Disability | Industrial Disability | Non-Industrial Death | Industrial Death | Death After Retirement | Total |
|----------------------|---------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|
| Under 5 Yrs | \$744,049,441 | \$17,779,360 | \$294,104 | \$1,942,318 | \$98 | \$10,757,780 | \$774,823,101 |
| 5-9 | 584,152,947 | 30,503,098 | 566,966 | 1,095,969 | 671 | 21,461,923 | 637,781,574 |
| 10-14 | 290,295,597 | 27,694,170 | 100,943 | 502,034 | 3,082 | 23,826,247 | 342,422,073 |
| 15-19 | 217,930,357 | 20,491,512 | 160,408 | 312,878 | 486 | 32,819,208 | 271,714,849 |
| 20-24 | 118,336,224 | 9,084,151 | 58,827 | 251,985 | 4,324 | 31,114,823 | 158,850,334 |
| 25-29 | 63,664,817 | 4,616,864 | 15,651 | 41,428 | 1,804 | 29,066,393 | 97,406,957 |
| 30 and Over | 28,056,850 | 5,608,320 | 5,745 | 195,508 | 319 | 18,171,737 | 52,038,479 |
| Total | \$2,046,486,233 | \$115,777,475 | \$1,202,644 | \$4,342,120 | \$10,784 | \$167,218,111 | \$2,335,037,367 |

Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2010

State Miscellaneous Tier 1

| Years Retired | Total Retirement | Total Benefits | Average Benefits |
|----------------------|-------------------------|-----------------------|-------------------------|
| 2010 | 3,157 ¹ | 93,552,189 | 29,633 |
| 2009 | 8,232 | 269,792,017 | 32,774 |
| 2008 | 6,961 | 218,975,379 | 31,457 |
| 2007 | 6,709 | 195,768,944 | 29,180 |
| 2006 | 6,495 | 173,136,124 | 26,657 |
| 2005 | 7,348 | 210,672,162 | 28,671 |
| 2004 | 8,681 | 262,936,064 | 30,289 |
| 2003 | 6,114 | 167,839,285 | 27,452 |
| 2002 | 6,044 | 171,421,479 | 28,362 |
| 2001 | 6,187 | 196,041,337 | 31,686 |
| 2000 | 8,307 | 264,362,440 | 31,824 |
| 1999 | 3,084 | 62,392,050 | 20,231 |
| 1998 | 4,524 | 105,949,212 | 23,419 |
| 1997 | 4,596 | 109,431,990 | 23,810 |
| 1996 | 4,369 | 106,773,447 | 24,439 |
| 1995 | 4,049 | 100,047,825 | 24,709 |
| 1994 | 4,109 | 100,232,010 | 24,393 |
| 1993 | 3,158 | 61,836,788 | 19,581 |
| 1992 | 5,031 | 133,613,255 | 26,558 |
| 1991 | 5,732 | 174,830,558 | 30,501 |
| 1990 | 3,191 | 72,590,521 | 22,749 |
| 1989 | 2,974 | 60,586,716 | 20,372 |
| 1988 | 3,310 | 74,042,818 | 22,369 |
| 1987 | 3,643 | 78,100,513 | 21,439 |
| 1986 | 2,996 | 58,816,312 | 19,632 |
| 1985 | 3,026 | 52,235,945 | 17,262 |
| 1984 | 2,599 | 42,306,830 | 16,278 |
| 1983 | 3,428 | 60,585,861 | 17,674 |
| 1982 | 2,434 | 37,403,589 | 15,367 |
| 1981 | 2,238 | 26,344,575 | 11,771 |
| 1980 | 2,310 | 28,187,093 | 12,202 |
| 1979 and Earlier | 9,504 | 105,463,128 | 11,097 |
| Totals | 154,540 | 3,876,268,456 | 25,083 |

Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

1 – The numbers for 2010 are for the first 6 months of the calendar year only.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2010

State Miscellaneous Tier 2

| Years Retired | Total Retirement | Total Benefits | Average Benefits |
|----------------------|-------------------------|-----------------------|-------------------------|
| 2010 | 78 ¹ | 516,418 | 6,621 |
| 2009 | 181 | 1,058,022 | 5,845 |
| 2008 | 149 | 1,076,660 | 7,226 |
| 2007 | 135 | 959,769 | 7,109 |
| 2006 | 129 | 765,975 | 5,938 |
| 2005 | 145 | 966,555 | 6,666 |
| 2004 | 125 | 845,629 | 6,765 |
| 2003 | 137 | 1,081,837 | 7,897 |
| 2002 | 170 | 1,240,150 | 7,295 |
| 2001 | 220 | 1,395,208 | 6,342 |
| 2000 | 269 | 2,114,058 | 7,859 |
| 1999 | 298 | 2,695,639 | 9,046 |
| 1998 | 383 | 3,834,408 | 10,012 |
| 1997 | 362 | 4,083,036 | 11,279 |
| 1996 | 300 | 3,457,827 | 11,526 |
| 1995 | 243 | 3,158,716 | 12,999 |
| 1994 | 168 | 2,297,556 | 13,676 |
| 1993 | 154 | 1,983,511 | 12,880 |
| 1992 | 142 | 1,669,388 | 11,756 |
| 1991 | 152 | 2,034,795 | 13,387 |
| 1990 | 81 | 985,930 | 12,172 |
| 1989 | 103 | 1,242,470 | 12,063 |
| 1988 | 94 | 1,068,228 | 11,364 |
| 1987 | 62 | 643,667 | 10,382 |
| 1986 | 50 | 508,548 | 10,171 |
| 1985 | 32 | 300,014 | 9,375 |
| 1984 | 0 | 0 | 0 |
| 1983 | 0 | 0 | 0 |
| 1982 | 0 | 0 | 0 |
| 1981 | 0 | 0 | 0 |
| 1980 | 0 | 0 | 0 |
| 1979 and Earlier | 0 | 0 | 0 |
| Totals | 4,362 | 41,984,014 | 9,625 |

Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

1 – The numbers for 2010 are for the first 6 months of the calendar year only.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2010

State Industrial

| Years Retired | Total Retirement | Total Benefits | Average Benefits |
|----------------------|-------------------------|-----------------------|-------------------------|
| 2010 | 344 ¹ | 5,027,109 | 14,614 |
| 2009 | 777 | 10,072,558 | 12,963 |
| 2008 | 618 | 7,465,858 | 12,081 |
| 2007 | 518 | 6,152,569 | 11,878 |
| 2006 | 571 | 6,274,527 | 10,989 |
| 2005 | 555 | 6,958,042 | 12,537 |
| 2004 | 670 | 8,006,415 | 11,950 |
| 2003 | 472 | 5,153,908 | 10,919 |
| 2002 | 458 | 5,111,777 | 11,161 |
| 2001 | 448 | 5,720,913 | 12,770 |
| 2000 | 581 | 7,173,811 | 12,347 |
| 1999 | 205 | 1,765,339 | 8,611 |
| 1998 | 312 | 2,690,754 | 8,624 |
| 1997 | 292 | 2,747,459 | 9,409 |
| 1996 | 236 | 2,091,086 | 8,861 |
| 1995 | 227 | 2,214,748 | 9,757 |
| 1994 | 191 | 1,874,374 | 9,813 |
| 1993 | 160 | 1,565,835 | 9,786 |
| 1992 | 208 | 2,764,863 | 13,293 |
| 1991 | 198 | 2,847,172 | 14,380 |
| 1990 | 123 | 1,128,115 | 9,172 |
| 1989 | 136 | 1,272,626 | 9,358 |
| 1988 | 92 | 1,036,247 | 11,264 |
| 1987 | 120 | 1,585,467 | 13,212 |
| 1986 | 72 | 1,002,542 | 13,924 |
| 1985 | 91 | 1,162,611 | 12,776 |
| 1984 | 68 | 705,585 | 10,376 |
| 1983 | 99 | 1,222,793 | 12,351 |
| 1982 | 75 | 1,017,024 | 13,560 |
| 1981 | 62 | 687,416 | 11,087 |
| 1980 | 70 | 773,580 | 11,051 |
| 1979 and Earlier | 226 | 2,720,735 | 12,039 |
| Totals | 9,275 | 107,993,858 | 11,644 |

Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

1 – The numbers for 2010 are for the first 6 months of the calendar year only.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2010

State Safety

| Years Retired | Total Retirement | Total Benefits | Average Benefits |
|----------------------|-------------------------|-----------------------|-------------------------|
| 2010 | 615 ¹ | 15,640,734 | 25,432 |
| 2009 | 1,326 | 29,279,785 | 22,081 |
| 2008 | 1,037 | 21,716,036 | 20,941 |
| 2007 | 969 | 18,168,459 | 18,750 |
| 2006 | 958 | 15,087,196 | 15,749 |
| 2005 | 1,020 | 17,044,184 | 16,710 |
| 2004 | 1,051 | 17,916,871 | 17,047 |
| 2003 | 797 | 13,319,779 | 16,712 |
| 2002 | 751 | 12,105,664 | 16,119 |
| 2001 | 709 | 11,640,700 | 16,418 |
| 2000 | 849 | 13,890,957 | 16,362 |
| 1999 | 393 | 4,944,524 | 12,581 |
| 1998 | 435 | 5,372,656 | 12,351 |
| 1997 | 394 | 5,428,227 | 13,777 |
| 1996 | 339 | 4,589,584 | 13,539 |
| 1995 | 281 | 3,411,889 | 12,142 |
| 1994 | 294 | 3,625,902 | 12,333 |
| 1993 | 197 | 2,855,349 | 14,494 |
| 1992 | 275 | 4,412,162 | 16,044 |
| 1991 | 258 | 3,543,370 | 13,734 |
| 1990 | 165 | 2,387,302 | 14,468 |
| 1989 | 183 | 2,687,543 | 14,686 |
| 1988 | 127 | 1,786,853 | 14,070 |
| 1987 | 150 | 2,416,965 | 16,113 |
| 1986 | 114 | 1,771,223 | 15,537 |
| 1985 | 172 | 2,569,086 | 14,937 |
| 1984 | 225 | 3,770,998 | 16,762 |
| 1983 | 380 | 7,108,117 | 18,706 |
| 1982 | 323 | 5,921,594 | 18,331 |
| 1981 | 363 | 5,952,594 | 16,398 |
| 1980 | 329 | 5,621,570 | 17,087 |
| 1979 and Earlier | 1,249 | 20,865,900 | 16,706 |
| Totals | 16,728 | 286,852,287 | 17,148 |

Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

1 – The numbers for 2010 are for the first 6 months of the calendar year only.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2010

State Peace Officers and Firefighters

| Years Retired | Total Retirement | Total Benefits | Average Benefits |
|----------------------|-------------------------|-----------------------|-------------------------|
| 2010 | 828 ¹ | 42,579,720 | 51,425 |
| 2009 | 2,087 | 118,862,314 | 56,954 |
| 2008 | 1,525 | 86,184,437 | 56,514 |
| 2007 | 1,723 | 99,135,203 | 57,536 |
| 2006 | 1,978 | 108,934,934 | 55,073 |
| 2005 | 1,241 | 57,691,344 | 46,488 |
| 2004 | 1,429 | 61,849,749 | 43,282 |
| 2003 | 1,219 | 50,924,887 | 41,776 |
| 2002 | 1,357 | 57,830,666 | 42,617 |
| 2001 | 1,266 | 52,960,252 | 41,833 |
| 2000 | 1,685 | 75,830,421 | 45,003 |
| 1999 | 628 | 18,415,030 | 29,323 |
| 1998 | 735 | 22,195,618 | 30,198 |
| 1997 | 763 | 25,160,625 | 32,976 |
| 1996 | 703 | 24,983,437 | 35,538 |
| 1995 | 616 | 21,957,084 | 35,645 |
| 1994 | 552 | 17,916,824 | 32,458 |
| 1993 | 518 | 17,208,687 | 33,221 |
| 1992 | 661 | 23,806,692 | 36,016 |
| 1991 | 646 | 25,070,864 | 38,809 |
| 1990 | 356 | 10,295,140 | 28,919 |
| 1989 | 395 | 11,437,990 | 28,957 |
| 1988 | 401 | 11,840,601 | 29,528 |
| 1987 | 495 | 15,103,032 | 30,511 |
| 1986 | 406 | 11,203,214 | 27,594 |
| 1985 | 319 | 8,775,232 | 27,509 |
| 1984 | 265 | 7,790,966 | 29,400 |
| 1983 | 0 | 0 | 0 |
| 1982 | 0 | 0 | 0 |
| 1981 | 1 | 72 | 72 |
| 1980 | 1 | 75 | 75 |
| 1979 and Earlier | 2 | 13,660 | 6,830 |
| Totals | 24,801 | 1,085,958,770 | 43,787 |

Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

1 – The numbers for 2010 are for the first 6 months of the calendar year only.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2010

California Highway Patrol

| Years Retired | Total Retirement | Total Benefits | Average Benefits |
|----------------------|-------------------------|-----------------------|-------------------------|
| 2010 | 199 ¹ | 18,080,450 | 90,857 |
| 2009 | 296 | 25,977,067 | 87,760 |
| 2008 | 241 | 19,321,450 | 80,172 |
| 2007 | 242 | 17,553,510 | 72,535 |
| 2006 | 285 | 19,522,011 | 68,498 |
| 2005 | 319 | 23,210,109 | 72,759 |
| 2004 | 257 | 16,343,208 | 63,592 |
| 2003 | 181 | 10,064,921 | 55,607 |
| 2002 | 262 | 16,130,276 | 61,566 |
| 2001 | 304 | 19,127,542 | 62,920 |
| 2000 | 432 | 24,854,505 | 57,534 |
| 1999 | 147 | 6,340,312 | 43,131 |
| 1998 | 194 | 8,501,287 | 43,821 |
| 1997 | 242 | 10,568,641 | 43,672 |
| 1996 | 270 | 12,936,590 | 47,913 |
| 1995 | 239 | 10,414,043 | 43,573 |
| 1994 | 190 | 7,423,812 | 39,073 |
| 1993 | 246 | 9,710,752 | 39,475 |
| 1992 | 190 | 6,720,255 | 35,370 |
| 1991 | 213 | 8,228,555 | 38,632 |
| 1990 | 143 | 4,886,547 | 34,172 |
| 1989 | 181 | 6,029,879 | 33,314 |
| 1988 | 190 | 6,689,509 | 35,208 |
| 1987 | 150 | 4,915,405 | 32,769 |
| 1986 | 177 | 5,373,334 | 30,358 |
| 1985 | 141 | 4,182,668 | 29,664 |
| 1984 | 143 | 4,109,806 | 28,740 |
| 1983 | 174 | 4,476,583 | 25,727 |
| 1982 | 188 | 4,538,585 | 24,141 |
| 1981 | 177 | 4,022,864 | 22,728 |
| 1980 | 139 | 2,968,116 | 21,353 |
| 1979 and Earlier | 1,053 | 22,493,284 | 21,361 |
| Totals | 7,805 | 365,715,876 | 46,857 |

Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

1 – The numbers for 2010 are for the first 6 months of the calendar year only.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2010

Schools

| Years Retired | Total Retirement | Total Benefits | Average Benefits |
|----------------------|-------------------------|-----------------------|-------------------------|
| 2010 | 4,282 ¹ | 64,767,003 | 15,125 |
| 2009 | 10,514 | 191,183,643 | 18,184 |
| 2008 | 8,682 | 152,213,712 | 17,532 |
| 2007 | 8,340 | 139,973,508 | 16,783 |
| 2006 | 8,707 | 137,269,553 | 15,765 |
| 2005 | 8,882 | 136,631,589 | 15,383 |
| 2004 | 9,226 | 142,156,222 | 15,408 |
| 2003 | 9,687 | 159,540,035 | 16,469 |
| 2002 | 7,580 | 121,805,257 | 16,069 |
| 2001 | 6,737 | 105,074,249 | 15,597 |
| 2000 | 8,591 | 127,907,505 | 14,889 |
| 1999 | 4,968 | 54,524,094 | 10,975 |
| 1998 | 5,911 | 67,012,147 | 11,337 |
| 1997 | 5,546 | 59,728,660 | 10,770 |
| 1996 | 5,410 | 57,860,112 | 10,695 |
| 1995 | 5,584 | 60,115,349 | 10,766 |
| 1994 | 5,173 | 56,570,565 | 10,936 |
| 1993 | 5,208 | 59,765,091 | 11,476 |
| 1992 | 5,015 | 56,281,106 | 11,223 |
| 1991 | 4,703 | 51,713,258 | 10,996 |
| 1990 | 4,113 | 41,217,658 | 10,021 |
| 1989 | 3,990 | 38,439,276 | 9,634 |
| 1988 | 3,753 | 34,908,236 | 9,301 |
| 1987 | 3,441 | 30,202,251 | 8,777 |
| 1986 | 3,209 | 26,307,164 | 8,198 |
| 1985 | 2,896 | 20,912,044 | 7,221 |
| 1984 | 2,313 | 15,105,512 | 6,531 |
| 1983 | 4,261 | 37,397,249 | 8,777 |
| 1982 | 2,290 | 16,313,704 | 7,124 |
| 1981 | 2,229 | 12,681,015 | 5,689 |
| 1980 | 2,025 | 12,097,782 | 5,974 |
| 1979 and Earlier | 8,440 | 47,486,335 | 5,626 |
| Totals | 181,706 | 2,335,160,884 | 12,851 |

Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

1 – The numbers for 2010 are for the first 6 months of the calendar year only.

APPENDIX A

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Actuarial Methods

FUNDING METHOD

The actuarial funding method used for this report is the Individual Entry Age Normal Cost Method. Under this method, projected benefits are determined for all members and the associated liabilities are spread in a manner that produces level annual cost as a percent of pay in each year from the age of hire (entry age) to the assumed retirement age. The cost allocated to the current fiscal year is called the normal cost.

The actuarial accrued liability for active members is then calculated as the portion of the total cost of the plan allocated to prior years. The actuarial accrued liability for members currently receiving benefits, for active members beyond the assumed retirement age, and for members entitled to deferred benefits, is equal to the present value of the benefits expected to be paid. No normal costs are applicable for these participants.

The excess of the total actuarial accrued liability over the actuarial value of plan assets is called the unfunded actuarial accrued liability. Funding requirements are determined by adding the normal cost and an amortization of the unfunded liability as a level percentage of assumed future payroll. Beginning July 1, 2000, all State and Schools plans became subject to the amortization methods prescribed in Actuarial Policy ACT-96-05E, described below.

Actuarial Policy ACT-96-05E specifies that all changes in liability due to plan amendments, changes in actuarial assumptions, or changes in actuarial methodology are amortized separately over a 20-year period. In addition, all gains or losses are tracked and the net unamortized gain or loss is amortized as a rolling 30-year amortization with the exception of gains and losses in fiscal years 2008-2009, 2009-2010 and 2010-2011 in which each year's gains or losses will be isolated and amortized over fixed and declining 30 year periods (as opposed to the current rolling 30 year amortization). Also, if a plan's accrued liability exceeds the actuarial value of assets, the annual contribution with respect to the total unfunded liability may not be less than the amount produced by a 30-year amortization of the unfunded liability. Finally, all plans are subject to a minimum employer contribution rate equal to the employer normal cost plus a 30-year amortization of surplus, if any.

In addition, in February 2010 the CalPERS Board adopted a resolution requiring additional contributions for any State plans or the Schools pool if their cash flows hampered adequate funding progress by preventing the expected funded status on a market value of assets basis of the plan to either:

- Increase by at least 15% by June 30, 2042; or
- Reach a level of 75% funded by June 30, 2042

The necessary additional contribution will be obtained by changing the amortization period of the gains and losses prior to 2009 to a period which will suffice the above criteria. CalPERS actuaries will reassess the criteria above when performing each future valuation to determine whether or not the additional contributions are necessary for each plan.

An exception to the funding rules above is used whenever the application of such rules results in inconsistencies. In these cases a "fresh start" approach is used. This simply means that the current total

unfunded actuarial liability/surplus is projected and amortized over a set number of years. This fresh start approach generally occurs when a total negative rate would result or a positive payment would be required on a negative unfunded actuarial liability (or conversely a negative payment on a positive unfunded actuarial liability). When the fresh start is being used to avoid a negative total rate and the surplus is sufficient to offset at least 30 years of normal cost payments, the amortization period equals the number of years that the rate is projected to be zero. In addition, a fresh start may be used whenever the Chief Actuary feels that it would be better achieve the intent of the Board's funding policy.

By State statute for California Highway Patrol only, a portion of the assets in excess of the Entry Age Normal accrued liability can be applied as a direct offset to required employer and employee contributions.

The 1959 Survivor Program valuation is not provided in this report. A separate report for that program is available.

The Term Insurance Method is used for the State Group Term Life Insurance Program. The required contribution for the coming fiscal year is the difference between the reserves for that benefit and one and one-half times the expected benefit payments, but not less than zero.

DATA EXTRACT

The June 30, 2009 actuarial valuation used the same data extract programs as used in the prior year.

PURCHASING POWER PROTECTION ACT (PPPA) METHOD

PPPA benefits are cost-of-living adjustments intended to maintain the individual's current retirement benefit at 75% of the original benefit at retirement adjusted for inflation since retirement. The PPPA benefit is paid, if necessary, in addition to any other cost-of-living adjustment provided under the terms of the plan. Prior to January 1, 2001, there was a single PPPA pool covering all CalPERS employers. However, commencing January 1, 2001, separate PPPA pools were established. A pool was set up for all State plans and a separate pool for School employers. The public agencies were removed entirely from PPPA pooling resulting in each public agency plan paying for its own PPPA benefits. The creation of separate pools effectively eliminates the cross subsidization between the State, Schools and public agencies. Because there is a single PPPA pool for all State plans, cross subsidization between State plans still occurs.

For the State and Schools plans, the total annual outlay for PPPA benefits is limited by State statute to earnings of up to 1.1% of accumulated member contributions. If this annual outlay is insufficient to provide the PPPA benefits in a given fiscal year, the 75% maintenance target would be proportionately reduced. Since the inception of the PPPA benefit program, 1.1% has proved more than sufficient to provide the 75% maintenance. Under the inflation assumption of 3% compounded annually, the 1.1% appears to remain more than sufficient in the foreseeable future.

The actuarial model mimics the PPPA administrative procedure by deriving the employer contribution rate for the plan as the lesser of two separate actuarially computed rates:

- 1) The rate that results if a full 1.1% investment return on the actuarial value of each future year's employee assets in the plan is used for that plan's PPPA payments; or

2) The rate that results if the plan pays the full 75% purchasing power for itself.

In this way, those plans for which future PPPA costs equal or exceed a 1.1% return on current and future employee assets are charged an employer rate that replaces the 1.1% return on employee assets. Those plans that require less than the 1.1% return on current and future employee assets to maintain 75% purchasing power are charged the rate necessary to maintain the 75% purchasing power. It must be noted that nothing is charged in the rates for any cross-subsidization. That is, the model assumes that cross subsidization for PPPA for State plans will remain so small that it can be ignored.

INTERNAL REVENUE CODE SECTION 415

The limitations on benefits imposed by Internal Revenue Code Section 415 were taken into account in this valuation.

ASSET VALUATION METHOD

In order to dampen the effect of short-term market value fluctuations on employer contribution rates, the following asset smoothing technique is used. First an Expected Value of Assets would be computed by bringing forward the prior year's Actuarial Value of Assets and the contributions received and benefits paid during the year at the assumed actuarial rate of return. The Actuarial Value of Assets would then be computed as the Expected Value of Assets plus one-fifteenth of the difference between the actual Market Value of Assets and the Expected Value of Assets as of the valuation date. Finally, the Actuarial Value of Assets is restricted to no less than 80% and no more than 120% of the Market Value of Assets.

In December 2009, the CalPERS Board adopted changes to the asset smoothing method in order to phase in over a three year period the impact of the -24% investment loss experienced by CalPERS in fiscal year 2008-2009. The following changes were adopted for the State and School plans:

- For the June 30, 2009 valuation increase the corridor limits for the actuarial value of assets from 80%-120% of market value to 60%-140% of the market value of assets
- For the June 30, 2010 valuation reduce the corridor limits for the actuarial value of assets to 70%-130% of the market value of assets
- And in the June 30, 2011 valuation and thereafter return to the 80%-120% of market value corridor limits for the actuarial value of assets

ACCOUNTS RECEIVABLE

In preparing valuations and setting employer contribution rates, the asset figures used include accounts receivable. The CalPERS Actuarial Office assumes that all assets are accruing interest at the actuarially-assumed rate. Therefore, the rates depicted assume that all payments have been made and are accruing interest.

Actuarial Assumptions Applicable to All Plans

ECONOMIC ASSUMPTIONS:

Investment Return

- 7.75% compounded annually (net of administrative expenses).

Salary Growth

- Annual increases vary by entry age and service. See sample rates in table below.

| Duration of Service | Annual Percentage Increase | | | | | |
|---------------------|-------------------------------------|--------|-------|------------|-------|-------|
| | State Miscellaneous Tier 1 & Tier 2 | | | Industrial | | |
| | Entry Age | | | Entry Age | | |
| | 20 | 30 | 40 | 20 | 30 | 40 |
| 0 | 13.35% | 10.95% | 8.25% | 9.55% | 8.85% | 8.25% |
| 3 | 8.95% | 8.05% | 6.55% | 8.15% | 7.75% | 7.35% |
| 5 | 7.25% | 6.75% | 5.85% | 7.35% | 7.15% | 6.95% |
| 10 | 4.95% | 4.85% | 4.45% | 6.05% | 5.85% | 5.75% |
| 15 | 4.25% | 4.15% | 3.95% | 5.15% | 5.05% | 4.95% |
| 20 | 3.85% | 3.85% | 3.75% | 4.55% | 4.45% | 4.35% |
| 25 | 3.75% | 3.75% | 3.65% | 3.85% | 3.85% | 3.85% |
| 30 | 3.75% | 3.75% | 3.65% | 3.85% | 3.85% | 3.85% |

| Duration of Service | Safety | | | POFF | | |
|---------------------|-----------|-------|-------|-----------|--------|--------|
| | Entry Age | | | Entry Age | | |
| | 20 | 30 | 40 | 20 | 30 | 40 |
| 0 | 7.55% | 7.35% | 7.15% | 19.95% | 18.55% | 16.85% |
| 3 | 6.15% | 5.65% | 4.85% | 9.05% | 8.85% | 8.25% |
| 5 | 5.55% | 5.05% | 4.05% | 6.85% | 6.65% | 6.05% |
| 10 | 4.85% | 4.35% | 3.55% | 4.65% | 4.55% | 4.35% |
| 15 | 4.35% | 4.05% | 3.45% | 4.15% | 4.05% | 4.05% |
| 20 | 3.95% | 3.75% | 3.45% | 3.85% | 3.75% | 3.75% |
| 25 | 3.85% | 3.75% | 3.45% | 3.65% | 3.65% | 3.65% |
| 30 | 3.85% | 3.75% | 3.45% | 3.65% | 3.65% | 3.65% |

| Duration of Service | CHP | | | Schools | | |
|---------------------|-----------|-------|-------|-----------|-------|-------|
| | Entry Age | | | Entry Age | | |
| | 20 | 30 | 40 | 20 | 30 | 40 |
| 0 | 9.05% | 9.05% | 9.05% | 11.05% | 9.85% | 8.45% |
| 3 | 6.25% | 6.25% | 6.25% | 7.75% | 7.25% | 6.45% |
| 5 | 5.15% | 5.15% | 5.15% | 6.55% | 6.25% | 5.55% |
| 10 | 3.95% | 3.95% | 3.95% | 4.75% | 4.65% | 4.35% |
| 15 | 3.75% | 3.75% | 3.75% | 4.15% | 4.05% | 3.75% |
| 20 | 3.65% | 3.65% | 3.65% | 3.85% | 3.75% | 3.45% |
| 25 | 3.65% | 3.65% | 3.65% | 3.65% | 3.65% | 3.45% |
| 30 | 3.65% | 3.65% | 3.65% | 3.65% | 3.65% | 3.45% |

Overall Payroll Growth

- 3.25% compounded annually (used in projecting the payroll over which the unfunded liability is amortized). For the State Miscellaneous plan, the payroll of the Second Tier members is assumed to decrease in accordance with actuarial assumptions based on the assumption that all new entrants will elect the State Miscellaneous First Tier. The payroll of the First Tier members is assumed to grow at the rate necessary for the overall payroll of the State Miscellaneous plan to grow annually at a rate of 3.25%.

Inflation

- 3% compounded annually.

DEMOGRAPHIC ASSUMPTIONS:

Marital Status

- For active members, a percentage married upon Retirement is assumed according to the following table.

| Plan | Percent Married |
|------------------------------------|------------------------|
| State Miscellaneous, Tier 1 | 85% |
| State Miscellaneous, Tier 2 | 85% |
| State Industrial | 85% |
| State Safety | 90% |
| State Police Officers/Firefighters | 90% |
| California Highway Patrol | 90% |
| Schools | 85% |

Age of Spouse

- It is assumed that female spouses are 3 years younger than male spouses.

Service Retirement Assumption for Separated Vested Members

- It is assumed that separated vested members will follow the same service retirement pattern as the active members but with a load to reflect the expected higher rates of retirement, especially at lower ages. The following table shows the load factors that are applied to the service retirement assumption for active members to obtain the service retirement pattern for separated vested members:

| Age | Load Factor |
|---------------|------------------|
| 50 | 450% |
| 51 | 250% |
| 52 through 56 | 200% |
| 57 through 60 | 150% |
| 61 through 64 | 125% |
| 65 and above | 100% (no change) |

MISCELLANEOUS LOADING FACTORS:

Credit for Unused Sick Leave

- Final Average Salary is increased by 1% for all groups providing credit for unused sick leave.

Norris Decision (Best Factors)

- Employees hired prior to July 1, 1982 have projected benefit amounts increased in order to reflect the use of “Best Factors” for these employees in the calculation of optional benefit forms. This is due to a 1983 Supreme Court decision, known as the Norris decision, which required males and females to be treated equally in the determination of benefit amounts. Consequently, anyone already employed at that time is given the best possible conversion factor when optional benefits are determined. A unisex conversion table was developed for

employees hired after July 1, 1982, which was a weighted average of the male and female tables. Therefore, no loading is necessary in this case.

MISCELLANEOUS ASSUMPTIONS:

Tier 2 Members electing Tier 1 benefits

- Tier 2 members of both the State Miscellaneous and State Industrial plans have the right to convert their Tier 2 service to Tier 1 service provided that they make up the shortfall in their accumulated contributions with interest. In this valuation, we have assumed that all Tier 2 members will elect to convert their Tier 2 service to Tier 1 service.

Plan Specific Actuarial Assumptions

STATE MISCELLANEOUS TIER 1

Service Retirement

- Rates vary by age and service. See sample rates in table below.

| Attained Age | Years of Service | | | | | | |
|-----------------|------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| 50 | 0.004 | 0.011 | 0.016 | 0.019 | 0.023 | 0.027 | 0.032 |
| 52 | 0.004 | 0.012 | 0.016 | 0.020 | 0.025 | 0.029 | 0.033 |
| 54 | 0.008 | 0.022 | 0.030 | 0.037 | 0.046 | 0.054 | 0.062 |
| 56 | 0.014 | 0.038 | 0.054 | 0.066 | 0.081 | 0.095 | 0.109 |
| 58 | 0.019 | 0.050 | 0.071 | 0.087 | 0.106 | 0.124 | 0.144 |
| 60 | 0.026 | 0.070 | 0.098 | 0.121 | 0.148 | 0.173 | 0.200 |
| 62 | 0.047 | 0.125 | 0.176 | 0.217 | 0.266 | 0.311 | 0.359 |
| 65 | 0.054 | 0.145 | 0.204 | 0.250 | 0.307 | 0.359 | 0.415 |
| 70 | 0.050 | 0.134 | 0.188 | 0.231 | 0.284 | 0.331 | 0.383 |
| 75 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Termination with Refund

- Rates vary by entry age and service. See sample rates in table below.

| Duration of Service | Entry Age | | | | |
|------------------------|-----------|--------|--------|--------|--------|
| | 20 | 25 | 30 | 35 | 40 |
| 0 | 0.1401 | 0.1340 | 0.1280 | 0.1220 | 0.1160 |
| 1 | 0.1249 | 0.1189 | 0.1128 | 0.1068 | 0.1009 |
| 2 | 0.1097 | 0.1037 | 0.0978 | 0.0917 | 0.0857 |
| 3 | 0.0945 | 0.0886 | 0.0826 | 0.0766 | 0.0705 |
| 4 | 0.0794 | 0.0734 | 0.0674 | 0.0614 | 0.0553 |
| 5 | 0.0104 | 0.0094 | 0.0084 | 0.0075 | 0.0065 |
| 10 | 0.0059 | 0.0051 | 0.0042 | 0.0034 | 0.0026 |
| 15 | 0.0040 | 0.0033 | 0.0025 | 0.0018 | 0.0011 |
| 20 | 0.0025 | 0.0019 | 0.0013 | 0.0007 | 0.0001 |
| 25 | 0.0013 | 0.0008 | 0.0003 | 0.0001 | 0.0001 |
| 30 | 0.0005 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

STATE MISCELLANEOUS TIER 1 (CONTINUED)

Terminations with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

| Duration of Service | Entry Age | | | | |
|---------------------|-----------|--------|--------|--------|--------|
| | 20 | 25 | 30 | 35 | 40 |
| 5 | 0.0556 | 0.0504 | 0.0452 | 0.0400 | 0.0349 |
| 6 | 0.0526 | 0.0472 | 0.0420 | 0.0368 | 0.0316 |
| 7 | 0.0495 | 0.0441 | 0.0389 | 0.0335 | 0.0280 |
| 8 | 0.0463 | 0.0409 | 0.0356 | 0.0299 | 0.0245 |
| 9 | 0.0430 | 0.0374 | 0.0321 | 0.0264 | 0.0209 |
| 10 | 0.0395 | 0.0340 | 0.0283 | 0.0226 | - |
| 14 | 0.0349 | 0.0289 | 0.0229 | - | - |
| 15 | 0.0335 | 0.0275 | 0.0216 | - | - |
| 19 | 0.0277 | 0.0213 | - | - | - |
| 20 | 0.0262 | 0.0198 | - | - | - |
| 24 | 0.0196 | 0.0130 | - | - | - |
| 25 | 0.0179 | - | - | - | - |
| 29 | 0.0103 | - | - | - | - |
| 30 | - | - | - | - | - |

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Non-Industrial Disability

- Rates vary by age and gender. See sample rates in table below.

| Attained Age | Male | | Female | |
|--------------|----------------------|---------------------------|----------------------|---------------------------|
| | Non-Industrial Death | Non-Industrial Disability | Non-Industrial Death | Non-Industrial Disability |
| 20 | 0.00047 | 0.0001 | 0.00016 | 0.0001 |
| 25 | 0.00050 | 0.0002 | 0.00026 | 0.0001 |
| 30 | 0.00053 | 0.0003 | 0.00036 | 0.0005 |
| 35 | 0.00067 | 0.0005 | 0.00046 | 0.0013 |
| 40 | 0.00087 | 0.0012 | 0.00065 | 0.0023 |
| 45 | 0.00120 | 0.0022 | 0.00093 | 0.0040 |
| 50 | 0.00176 | 0.0038 | 0.00126 | 0.0055 |
| 55 | 0.00260 | 0.0040 | 0.00176 | 0.0050 |
| 60 | 0.00395 | 0.0026 | 0.00266 | 0.0031 |

STATE MISCELLANEOUS TIER 1 (CONTINUED)

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

| Age | Healthy Recipients | | Non-Industrially Disabled (Not Job-Related) | | Industrially Disabled (Job-Related) | |
|------------|---------------------------|---------------|--------------------------------------------------------|---------------|------------------------------------------------|---------------|
| | Male | Female | Male | Female | Male | Female |
| 50 | 0.00239 | 0.00125 | 0.01632 | 0.01245 | 0.00443 | 0.00356 |
| 55 | 0.00474 | 0.00243 | 0.01936 | 0.01580 | 0.00563 | 0.00546 |
| 60 | 0.00720 | 0.00431 | 0.02293 | 0.01628 | 0.00777 | 0.00798 |
| 65 | 0.01069 | 0.00775 | 0.03174 | 0.01969 | 0.01388 | 0.01184 |
| 70 | 0.01675 | 0.01244 | 0.03870 | 0.03019 | 0.02236 | 0.01716 |
| 75 | 0.03080 | 0.02071 | 0.06001 | 0.03915 | 0.03585 | 0.02665 |
| 80 | 0.05270 | 0.03749 | 0.08388 | 0.05555 | 0.06926 | 0.04528 |
| 85 | 0.09775 | 0.07005 | 0.14035 | 0.09577 | 0.11799 | 0.08017 |
| 90 | 0.16747 | 0.12404 | 0.21554 | 0.14949 | 0.16575 | 0.13775 |
| 95 | 0.25659 | 0.21556 | 0.31025 | 0.23055 | 0.26108 | 0.23331 |
| 100 | 0.34551 | 0.31876 | 0.45905 | 0.37662 | 0.40918 | 0.35165 |

STATE MISCELLANEOUS TIER 2

Service Retirement

- Rates vary by age and Service. See sample rates in table below.

| Attained Age | Years of Service | | | | | | |
|-----------------|------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| 50 | 0.004 | 0.011 | 0.016 | 0.019 | 0.023 | 0.027 | 0.032 |
| 52 | 0.004 | 0.012 | 0.016 | 0.020 | 0.025 | 0.029 | 0.033 |
| 54 | 0.008 | 0.022 | 0.003 | 0.037 | 0.046 | 0.054 | 0.062 |
| 56 | 0.014 | 0.038 | 0.054 | 0.066 | 0.081 | 0.095 | 0.109 |
| 58 | 0.019 | 0.050 | 0.071 | 0.087 | 0.106 | 0.124 | 0.144 |
| 60 | 0.026 | 0.070 | 0.098 | 0.121 | 0.148 | 0.173 | 0.200 |
| 62 | 0.047 | 0.125 | 0.176 | 0.217 | 0.266 | 0.311 | 0.359 |
| 65 | 0.054 | 0.145 | 0.204 | 0.250 | 0.307 | 0.359 | 0.415 |
| 70 | 0.050 | 0.134 | 0.188 | 0.231 | 0.284 | 0.331 | 0.383 |
| 75 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Non-vested Termination

- Rates vary by entry age and service. See sample rates in table below.

| Duration of Service | Entry Age | | | | |
|------------------------|-----------|--------|--------|--------|--------|
| | 20 | 25 | 30 | 35 | 40 |
| 0 | 0.1496 | 0.1433 | 0.1370 | 0.1307 | 0.1244 |
| 1 | 0.1365 | 0.1302 | 0.1239 | 0.1176 | 0.1113 |
| 2 | 0.1234 | 0.1172 | 0.1109 | 0.1046 | 0.0983 |
| 3 | 0.1104 | 0.1041 | 0.0978 | 0.0915 | 0.0852 |
| 4 | 0.0973 | 0.0910 | 0.0848 | 0.0785 | 0.0722 |
| 5 | 0.0843 | 0.0780 | 0.0717 | 0.0654 | 0.0591 |
| 6 | 0.0792 | 0.0729 | 0.0666 | 0.0603 | 0.0540 |
| 7 | 0.0741 | 0.0678 | 0.0615 | 0.0553 | 0.0490 |
| 8 | 0.0691 | 0.0628 | 0.0565 | 0.0502 | 0.0439 |
| 9 | 0.0640 | 0.0577 | 0.0514 | 0.0451 | 0.0388 |

STATE MISCELLANEOUS TIER 2 (Continued)

Terminations with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

| Duration of Service | Entry Age | | | | |
|---------------------|-----------|--------|--------|--------|----|
| | 20 | 25 | 30 | 35 | 40 |
| 10 | 0.0589 | 0.0526 | 0.0463 | 0.0400 | - |
| 14 | 0.0480 | 0.0417 | 0.0354 | 0.0291 | - |
| 15 | 0.0453 | 0.0390 | 0.0327 | - | - |
| 19 | 0.0344 | 0.0281 | 0.0218 | - | - |
| 20 | 0.0317 | 0.0254 | - | - | - |
| 24 | 0.0208 | 0.0145 | - | - | - |
| 25 | 0.0180 | - | - | - | - |
| 29 | 0.0071 | - | - | - | - |
| 30 | - | - | - | - | - |

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Non-Industrial Disability

- Rates vary by age and gender. See sample rates in table below.

| Attained Age | Male | | Female | |
|--------------|----------------------|---------------------------|----------------------|---------------------------|
| | Non-Industrial Death | Non-Industrial Disability | Non-Industrial Death | Non-Industrial Disability |
| 20 | 0.00047 | 0.0001 | 0.00016 | 0.0001 |
| 25 | 0.00050 | 0.0002 | 0.00026 | 0.0004 |
| 30 | 0.00053 | 0.0003 | 0.00036 | 0.0006 |
| 35 | 0.00067 | 0.0003 | 0.00046 | 0.0017 |
| 40 | 0.00087 | 0.0023 | 0.00065 | 0.0041 |
| 45 | 0.00120 | 0.0042 | 0.00093 | 0.0068 |
| 50 | 0.00176 | 0.0058 | 0.00126 | 0.0099 |
| 55 | 0.00260 | 0.0073 | 0.00176 | 0.0123 |
| 60 | 0.00395 | 0.0081 | 0.00266 | 0.0134 |

STATE MISCELLANEOUS TIER 2 (Continued)

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

| Age | Healthy Recipients | | Non-Industrially Disabled (Not Job-Related) | | Industrially Disabled (Job-Related) | |
|------------|---------------------------|---------------|--------------------------------------------------------|---------------|------------------------------------------------|---------------|
| | Male | Female | Male | Female | Male | Female |
| 50 | 0.00239 | 0.00125 | 0.01632 | 0.01245 | 0.00443 | 0.00356 |
| 55 | 0.00474 | 0.00243 | 0.01936 | 0.01580 | 0.00563 | 0.00546 |
| 60 | 0.00720 | 0.00431 | 0.02293 | 0.01628 | 0.00777 | 0.00798 |
| 65 | 0.01069 | 0.00775 | 0.03174 | 0.01969 | 0.01388 | 0.01184 |
| 70 | 0.01675 | 0.01244 | 0.03870 | 0.03019 | 0.02236 | 0.01716 |
| 75 | 0.03080 | 0.02071 | 0.06001 | 0.03915 | 0.03585 | 0.02665 |
| 80 | 0.05270 | 0.03749 | 0.08388 | 0.05555 | 0.06926 | 0.04528 |
| 85 | 0.09775 | 0.07005 | 0.14035 | 0.09577 | 0.11799 | 0.08017 |
| 90 | 0.16747 | 0.12404 | 0.21554 | 0.14949 | 0.16575 | 0.13775 |
| 95 | 0.25659 | 0.21556 | 0.31025 | 0.23055 | 0.26108 | 0.23331 |
| 100 | 0.34551 | 0.31876 | 0.45905 | 0.37662 | 0.40918 | 0.35165 |

STATE INDUSTRIAL TIER 1

Service Retirement

- Rates vary by age and service. See sample rates in table below.

| Attained Age | Years of Service | | | | | | |
|-----------------|------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| 50 | 0.006 | 0.011 | 0.018 | 0.026 | 0.031 | 0.033 | 0.039 |
| 52 | 0.006 | 0.011 | 0.018 | 0.026 | 0.031 | 0.033 | 0.039 |
| 54 | 0.016 | 0.029 | 0.045 | 0.067 | 0.079 | 0.084 | 0.100 |
| 56 | 0.020 | 0.037 | 0.057 | 0.085 | 0.100 | 0.106 | 0.126 |
| 58 | 0.025 | 0.046 | 0.071 | 0.106 | 0.125 | 0.132 | 0.157 |
| 60 | 0.038 | 0.070 | 0.109 | 0.162 | 0.191 | 0.202 | 0.240 |
| 62 | 0.076 | 0.139 | 0.217 | 0.321 | 0.378 | 0.402 | 0.476 |
| 65 | 0.083 | 0.153 | 0.238 | 0.353 | 0.416 | 0.442 | 0.523 |
| 70 | 0.089 | 0.163 | 0.254 | 0.376 | 0.444 | 0.472 | 0.559 |
| 75 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Termination with Refund

- Rates vary by entry age and service. See sample rates in table below.

| Duration of Service | Entry Age | | | | |
|------------------------|-----------|--------|--------|--------|--------|
| | 20 | 25 | 30 | 35 | 40 |
| 0 | 0.0829 | 0.0794 | 0.0758 | 0.0723 | 0.0687 |
| 1 | 0.0740 | 0.0704 | 0.0669 | 0.0633 | 0.0598 |
| 2 | 0.0650 | 0.0615 | 0.0579 | 0.0544 | 0.0507 |
| 3 | 0.0560 | 0.0524 | 0.0489 | 0.0453 | 0.0418 |
| 4 | 0.0470 | 0.0435 | 0.0399 | 0.0364 | 0.0328 |
| 5 | 0.0095 | 0.0086 | 0.0077 | 0.0068 | 0.0059 |
| 10 | 0.0054 | 0.0046 | 0.0039 | 0.0031 | 0.0024 |
| 15 | 0.0036 | 0.0030 | 0.0023 | 0.0017 | 0.0010 |
| 20 | 0.0023 | 0.0017 | 0.0011 | 0.0006 | 0.0002 |
| 25 | 0.0011 | 0.0007 | 0.0003 | 0.0002 | 0.0002 |
| 30 | 0.0005 | 0.0002 | 0.0002 | 0.0002 | 0.0002 |

STATE INDUSTRIAL TIER 1 (Continued)

Terminations with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

| Duration of Service | Entry Age | | | | |
|---------------------|-----------|--------|--------|--------|--------|
| | 20 | 25 | 30 | 35 | 40 |
| 5 | 0.0496 | 0.0449 | 0.0405 | 0.0356 | 0.0311 |
| 6 | 0.0470 | 0.0421 | 0.0377 | 0.0328 | 0.0281 |
| 7 | 0.0442 | 0.0393 | 0.0346 | 0.0297 | 0.0250 |
| 8 | 0.0414 | 0.0365 | 0.0316 | 0.0267 | 0.0220 |
| 9 | 0.0384 | 0.0335 | 0.0285 | 0.0234 | 0.0187 |
| 10 | 0.0353 | 0.0302 | 0.0253 | 0.0201 | - |
| 14 | 0.0349 | 0.0289 | 0.0229 | 0.0171 | - |
| 15 | 0.0302 | 0.0246 | 0.0194 | - | - |
| 19 | 0.0277 | 0.0213 | 0.0150 | - | - |
| 20 | 0.0232 | 0.0176 | - | - | - |
| 24 | 0.0196 | 0.0130 | - | - | - |
| 25 | 0.0159 | - | - | - | - |
| 29 | 0.0103 | - | - | - | - |
| 30 | - | - | - | - | - |

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Industrial Disability, Non-Industrial Disability & Industrial Death

- Rates vary by age. See sample rates in table below.

| Attained Age | Non-Industrial Death | | Non-Industrial Disability | Industrial Disability | Industrial Death |
|--------------|----------------------|---------|---------------------------|-----------------------|------------------|
| | Male | Female | Male and Female | Male and Female | Male and Female |
| | | | Female | Female | Female |
| 20 | 0.00047 | 0.00016 | 0.00043 | 0.00015 | 0.00003 |
| 25 | 0.00050 | 0.00026 | 0.00085 | 0.00015 | 0.00007 |
| 30 | 0.00053 | 0.00036 | 0.00136 | 0.00015 | 0.00010 |
| 35 | 0.00067 | 0.00046 | 0.00204 | 0.00029 | 0.00012 |
| 40 | 0.00087 | 0.00065 | 0.00315 | 0.00029 | 0.00013 |
| 45 | 0.00120 | 0.00093 | 0.00468 | 0.00044 | 0.00014 |
| 50 | 0.00176 | 0.00126 | 0.00621 | 0.00044 | 0.00015 |
| 55 | 0.00260 | 0.00176 | 0.00791 | 0.00058 | 0.00016 |
| 60 | 0.00395 | 0.00266 | 0.00918 | 0.00058 | 0.00017 |

STATE INDUSTRIAL TIER 1 (Continued)

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

| Age | Healthy Recipients | | Non-Industrially Disabled (Not Job-Related) | | Industrially Disabled (Job-Related) | |
|-----|--------------------|---------|------------------------------------------------|---------|----------------------------------------|---------|
| | Male | Female | Male | Female | Male | Female |
| 50 | 0.00239 | 0.00125 | 0.01632 | 0.01245 | 0.00443 | 0.00356 |
| 55 | 0.00474 | 0.00243 | 0.01936 | 0.01580 | 0.00563 | 0.00546 |
| 60 | 0.00720 | 0.00431 | 0.02293 | 0.01628 | 0.00777 | 0.00798 |
| 65 | 0.01069 | 0.00775 | 0.03174 | 0.01969 | 0.01388 | 0.01184 |
| 70 | 0.01675 | 0.01244 | 0.03870 | 0.03019 | 0.02236 | 0.01716 |
| 75 | 0.03080 | 0.02071 | 0.06001 | 0.03915 | 0.03585 | 0.02665 |
| 80 | 0.05270 | 0.03749 | 0.08388 | 0.05555 | 0.06926 | 0.04528 |
| 85 | 0.09775 | 0.07005 | 0.14035 | 0.09577 | 0.11799 | 0.08017 |
| 90 | 0.16747 | 0.12404 | 0.21554 | 0.14949 | 0.16575 | 0.13775 |
| 95 | 0.25659 | 0.21556 | 0.31025 | 0.23055 | 0.26108 | 0.23331 |
| 100 | 0.34551 | 0.31876 | 0.45905 | 0.37662 | 0.40918 | 0.35165 |

STATE INDUSTRIAL TIER 2

Service Retirement

- Rates vary by age and service . See sample rates in table below.

| Attained Age | Years of Service | | | | | | |
|-------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| 50 | 0.006 | 0.011 | 0.018 | 0.026 | 0.031 | 0.033 | 0.039 |
| 52 | 0.006 | 0.011 | 0.018 | 0.026 | 0.031 | 0.033 | 0.039 |
| 54 | 0.016 | 0.029 | 0.045 | 0.067 | 0.079 | 0.084 | 0.100 |
| 56 | 0.020 | 0.037 | 0.057 | 0.085 | 0.100 | 0.106 | 0.126 |
| 58 | 0.025 | 0.046 | 0.071 | 0.106 | 0.125 | 0.132 | 0.157 |
| 60 | 0.038 | 0.070 | 0.109 | 0.162 | 0.191 | 0.202 | 0.240 |
| 62 | 0.076 | 0.139 | 0.217 | 0.321 | 0.378 | 0.402 | 0.476 |
| 65 | 0.083 | 0.153 | 0.238 | 0.353 | 0.416 | 0.442 | 0.523 |
| 70 | 0.089 | 0.163 | 0.254 | 0.376 | 0.444 | 0.472 | 0.559 |
| 75 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Termination with Refund

- Rates vary by entry age and service. See sample rates in table below.

| Duration of Service | Entry Age | | | | |
|--------------------------------|------------------|-----------|-----------|-----------|-----------|
| | 20 | 25 | 30 | 35 | 40 |
| 0 | 0.0829 | 0.0794 | 0.0758 | 0.0723 | 0.0687 |
| 1 | 0.0740 | 0.0704 | 0.0669 | 0.0633 | 0.0598 |
| 2 | 0.0650 | 0.0615 | 0.0579 | 0.0544 | 0.0507 |
| 3 | 0.0560 | 0.0524 | 0.0489 | 0.0453 | 0.0418 |
| 4 | 0.0470 | 0.0435 | 0.0399 | 0.0364 | 0.0328 |
| 5 | 0.0095 | 0.0086 | 0.0077 | 0.0068 | 0.0059 |
| 10 | 0.0054 | 0.0046 | 0.0039 | 0.0031 | 0.0024 |
| 15 | 0.0036 | 0.0030 | 0.0023 | 0.0017 | 0.0010 |
| 20 | 0.0023 | 0.0017 | 0.0011 | 0.0006 | 0.0002 |
| 25 | 0.0011 | 0.0007 | 0.0003 | 0.0002 | 0.0002 |
| 30 | 0.0005 | 0.0002 | 0.0002 | 0.0002 | 0.0002 |

STATE INDUSTRIAL TIER 2 (Continued)

Terminations with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

| Duration of Service | Entry Age | | | | |
|---------------------|-----------|--------|--------|--------|--------|
| | 20 | 25 | 30 | 35 | 40 |
| 5 | 0.0496 | 0.0449 | 0.0405 | 0.0356 | 0.0311 |
| 6 | 0.0470 | 0.0421 | 0.0377 | 0.0328 | 0.0281 |
| 7 | 0.0442 | 0.0393 | 0.0346 | 0.0297 | 0.0250 |
| 8 | 0.0414 | 0.0365 | 0.0316 | 0.0267 | 0.0220 |
| 9 | 0.0384 | 0.0335 | 0.0285 | 0.0234 | 0.0187 |
| 10 | 0.0353 | 0.0302 | 0.0253 | 0.0201 | - |
| 14 | 0.0349 | 0.0289 | 0.0229 | 0.0171 | - |
| 15 | 0.0302 | 0.0246 | 0.0194 | - | - |
| 19 | 0.0277 | 0.0213 | 0.0150 | - | - |
| 20 | 0.0232 | 0.0176 | - | - | - |
| 24 | 0.0196 | 0.0130 | - | - | - |
| 25 | 0.0159 | - | - | - | - |
| 29 | 0.0103 | - | - | - | - |
| 30 | - | - | - | - | - |

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Non-Industrial Disability

- Rates vary by age. See sample rates in table below.

Industrial Disability

- Rates vary by age. See sample rates in table below.

Industrial Death

- Rates vary by age. See sample rates in table below.

| Attained Age | Non-Industrial Death | | Non-Industrial Disability | Industrial Disability | Industrial Death |
|--------------|----------------------|---------|---------------------------|-----------------------|------------------|
| | Male | Female | Male and Female | Male and Female | Male and Female |
| | | | Female | Female | Female |
| 20 | 0.00047 | 0.00016 | 0.00043 | 0.00015 | 0.00003 |
| 25 | 0.00050 | 0.00026 | 0.00085 | 0.00015 | 0.00007 |
| 30 | 0.00053 | 0.00036 | 0.00136 | 0.00015 | 0.00010 |
| 35 | 0.00067 | 0.00046 | 0.00204 | 0.00029 | 0.00012 |
| 40 | 0.00087 | 0.00065 | 0.00315 | 0.00029 | 0.00013 |
| 45 | 0.00120 | 0.00093 | 0.00468 | 0.00044 | 0.00014 |
| 50 | 0.00176 | 0.00126 | 0.00621 | 0.00044 | 0.00015 |
| 55 | 0.00260 | 0.00176 | 0.00791 | 0.00058 | 0.00016 |
| 60 | 0.00395 | 0.00266 | 0.00918 | 0.00058 | 0.00017 |

STATE INDUSTRIAL TIER 2 (Continued)

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

| Age | Healthy Recipients | | Non-Industrially Disabled (Not Job-Related) | | Industrially Disabled (Job-Related) | |
|-----|--------------------|---------|------------------------------------------------|---------|----------------------------------------|---------|
| | Male | Female | Male | Female | Male | Female |
| 50 | 0.00239 | 0.00125 | 0.01632 | 0.01245 | 0.00443 | 0.00356 |
| 55 | 0.00474 | 0.00243 | 0.01936 | 0.01580 | 0.00563 | 0.00546 |
| 60 | 0.00720 | 0.00431 | 0.02293 | 0.01628 | 0.00777 | 0.00798 |
| 65 | 0.01069 | 0.00775 | 0.03174 | 0.01969 | 0.01388 | 0.01184 |
| 70 | 0.01675 | 0.01244 | 0.03870 | 0.03019 | 0.02236 | 0.01716 |
| 75 | 0.03080 | 0.02071 | 0.06001 | 0.03915 | 0.03585 | 0.02665 |
| 80 | 0.05270 | 0.03749 | 0.08388 | 0.05555 | 0.06926 | 0.04528 |
| 85 | 0.09775 | 0.07005 | 0.14035 | 0.09577 | 0.11799 | 0.08017 |
| 90 | 0.16747 | 0.12404 | 0.21554 | 0.14949 | 0.16575 | 0.13775 |
| 95 | 0.25659 | 0.21556 | 0.31025 | 0.23055 | 0.26108 | 0.23331 |
| 100 | 0.34551 | 0.31876 | 0.45905 | 0.37662 | 0.40918 | 0.35165 |

STATE SAFETY

Service Retirement

- Rates vary by age and service. See sample rates in table below.

| Attained Age | Years of Service | | | | | | |
|-------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| 50 | 0.012 | 0.021 | 0.028 | 0.033 | 0.037 | 0.048 | 0.057 |
| 52 | 0.008 | 0.014 | 0.019 | 0.023 | 0.025 | 0.033 | 0.039 |
| 54 | 0.024 | 0.041 | 0.055 | 0.064 | 0.072 | 0.093 | 0.111 |
| 56 | 0.038 | 0.064 | 0.086 | 0.101 | 0.113 | 0.146 | 0.174 |
| 58 | 0.040 | 0.068 | 0.092 | 0.107 | 0.120 | 0.155 | 0.184 |
| 60 | 0.043 | 0.072 | 0.098 | 0.115 | 0.128 | 0.166 | 0.197 |
| 62 | 0.070 | 0.117 | 0.159 | 0.186 | 0.208 | 0.270 | 0.320 |
| 65 | 0.095 | 0.160 | 0.217 | 0.254 | 0.284 | 0.369 | 0.437 |
| 70 | 0.086 | 0.144 | 0.195 | 0.229 | 0.255 | 0.331 | 0.393 |
| 75 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Termination with Refund

- Rates vary by service. See sample rates in table below.

| Duration of Service | | | | | | | | | | |
|----------------------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 1 | 2 | 3 | 4 | 5 | 10 | 15 | 20 | 25 | 30 |
| 0.1313 | 0.0967 | 0.0622 | 0.0461 | 0.0374 | 0.0080 | 0.0058 | 0.0039 | 0.0025 | 0.0013 | 0.0009 |

Terminations with Vested Deferred Benefits

- Rates vary by service. See sample rates in table below.

| Duration of Service | | | | | | | | | | |
|----------------------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 5 | 6 | 7 | 8 | 9 | 10 | 15 | 20 | 25 | 30 | 35 |
| 0.0369 | 0.0363 | 0.0357 | 0.0349 | 0.0341 | 0.0333 | 0.0286 | 0.0226 | 0.0159 | 0.0131 | 0.000 |

STATE SAFETY (Continued)

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Industrial Disability, Non-Industrial Disability & Industrial Death

- Rates vary by age. See sample rates in table below.

| Attained Age | Non-Industrial Death | | Non-Industrial Disability | Industrial Disability | Industrial Death |
|--------------|----------------------|---------|---------------------------|-----------------------|------------------|
| | Male | Female | Male and Female | Male and Female | Male and Female |
| 20 | 0.00047 | 0.00016 | 0.00036 | 0.00024 | 0.00003 |
| 25 | 0.00050 | 0.00026 | 0.00054 | 0.00108 | 0.00007 |
| 30 | 0.00053 | 0.00036 | 0.00063 | 0.00216 | 0.00010 |
| 35 | 0.00067 | 0.00046 | 0.00072 | 0.00324 | 0.00012 |
| 40 | 0.00087 | 0.00065 | 0.00072 | 0.00432 | 0.00013 |
| 45 | 0.00120 | 0.00093 | 0.00108 | 0.00528 | 0.00014 |
| 50 | 0.00176 | 0.00126 | 0.00216 | 0.00636 | 0.00015 |
| 55 | 0.00260 | 0.00176 | 0.00306 | 0.00960 | 0.00016 |
| 60 | 0.00395 | 0.00266 | 0.00387 | 0.00960 | 0.00017 |

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients and for non-industrially disabled (disability not job related) retirees. Rates vary by age for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

| Age | Healthy Recipients | | Non-Industrially Disabled (Not Job-Related) | | Industrially Disabled (Job-Related) | |
|-----|--------------------|---------|---------------------------------------------|---------|-------------------------------------|---------|
| | Male | Female | Male | Female | Male | Female |
| 50 | 0.00239 | 0.00125 | 0.01632 | 0.01245 | 0.00443 | 0.00356 |
| 55 | 0.00474 | 0.00243 | 0.01936 | 0.01580 | 0.00563 | 0.00546 |
| 60 | 0.00720 | 0.00431 | 0.02293 | 0.01628 | 0.00777 | 0.00798 |
| 65 | 0.01069 | 0.00775 | 0.03174 | 0.01969 | 0.01388 | 0.01184 |
| 70 | 0.01675 | 0.01244 | 0.03870 | 0.03019 | 0.02236 | 0.01716 |
| 75 | 0.03080 | 0.02071 | 0.06001 | 0.03915 | 0.03585 | 0.02665 |
| 80 | 0.05270 | 0.03749 | 0.08388 | 0.05555 | 0.06926 | 0.04528 |
| 85 | 0.09775 | 0.07005 | 0.14035 | 0.09577 | 0.11799 | 0.08017 |
| 90 | 0.16747 | 0.12404 | 0.21554 | 0.14949 | 0.16575 | 0.13775 |
| 95 | 0.25659 | 0.21556 | 0.31025 | 0.23055 | 0.26108 | 0.23331 |
| 100 | 0.34551 | 0.31876 | 0.45905 | 0.37662 | 0.40918 | 0.35165 |

STATE PEACE OFFICERS AND FIREFIGHTERS

Service Retirement

- Rates vary by age and service. See sample rates in table below.

| Attained Age | Years of Service | | | | | | |
|-----------------|------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| 50 | 0.006 | 0.020 | 0.027 | 0.031 | 0.052 | 0.082 | 0.095 |
| 52 | 0.008 | 0.026 | 0.035 | 0.041 | 0.067 | 0.106 | 0.123 |
| 54 | 0.016 | 0.054 | 0.073 | 0.084 | 0.139 | 0.219 | 0.254 |
| 56 | 0.021 | 0.070 | 0.094 | 0.109 | 0.181 | 0.284 | 0.330 |
| 58 | 0.020 | 0.066 | 0.089 | 0.103 | 0.170 | 0.267 | 0.310 |
| 60 | 0.020 | 0.067 | 0.091 | 0.105 | 0.174 | 0.273 | 0.317 |
| 62 | 0.035 | 0.116 | 0.157 | 0.181 | 0.301 | 0.472 | 0.549 |
| 65 | 0.039 | 0.132 | 0.178 | 0.206 | 0.341 | 0.536 | 0.623 |
| 70 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Termination with Refund

- Rates vary by service. See sample rates in table below.

| Duration of Service | | | | | | | | | | |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 10 | 15 | 20 | 25 | 30 |
| 0.1217 | 0.0779 | 0.0431 | 0.0353 | 0.0275 | 0.0056 | 0.0039 | 0.0025 | 0.0015 | 0.0006 | 0.0003 |

Terminations with Vested Deferred Benefits

- Rates vary by service. See sample rates in table below.

| Duration of Service | | | | | | | | | | |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 6 | 7 | 8 | 9 | 10 | 15 | 20 | 25 | 30 | 35 |
| 0.0173 | 0.0168 | 0.0164 | 0.0159 | 0.0155 | 0.0149 | 0.0120 | 0.0086 | 0.0046 | 0.0030 | 0.0000 |

STATE PEACE OFFICERS AND FIREFIGHTERS (Continued)

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Industrial Disability, Non-Industrial Disability & Industrial Death

- Rates vary by age. See sample rates in table below.

| <u>Attained Age</u> | <u>Non-Industrial Death</u> | | <u>Non-Industrial Disability</u> | <u>Industrial Disability</u> | <u>Industrial Death</u> |
|---------------------|-----------------------------|---------------|----------------------------------|------------------------------|-------------------------|
| | <u>Male</u> | <u>Female</u> | <u>Male and Female</u> | <u>Male and Female</u> | <u>Male and Female</u> |
| 20 | 0.00047 | 0.00016 | 0.00010 | 0.00030 | 0.00003 |
| 25 | 0.00050 | 0.00026 | 0.00010 | 0.00150 | 0.00007 |
| 30 | 0.00053 | 0.00036 | 0.00010 | 0.00300 | 0.00010 |
| 35 | 0.00067 | 0.00046 | 0.00020 | 0.00450 | 0.00012 |
| 40 | 0.00087 | 0.00065 | 0.00040 | 0.00600 | 0.00013 |
| 45 | 0.00120 | 0.00093 | 0.00060 | 0.00750 | 0.00014 |
| 50 | 0.00176 | 0.00126 | 0.00098 | 0.00900 | 0.00015 |
| 55 | 0.00260 | 0.00176 | 0.00143 | 0.02080 | 0.00016 |
| 60 | 0.00395 | 0.00266 | 0.00188 | 0.02080 | 0.00017 |

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

| <u>Age</u> | <u>Healthy Recipients</u> | | <u>Non-Industrially Disabled (Not Job-Related)</u> | | <u>Industrially Disabled (Job-Related)</u> | |
|------------|---------------------------|---------------|----------------------------------------------------|---------------|--------------------------------------------|---------------|
| | <u>Male</u> | <u>Female</u> | <u>Male</u> | <u>Female</u> | <u>Male</u> | <u>Female</u> |
| 50 | 0.00239 | 0.00125 | 0.01632 | 0.01245 | 0.00443 | 0.00356 |
| 55 | 0.00474 | 0.00243 | 0.01936 | 0.01580 | 0.00563 | 0.00546 |
| 60 | 0.00720 | 0.00431 | 0.02293 | 0.01628 | 0.00777 | 0.00798 |
| 65 | 0.01069 | 0.00775 | 0.03174 | 0.01969 | 0.01388 | 0.01184 |
| 70 | 0.01675 | 0.01244 | 0.03870 | 0.03019 | 0.02236 | 0.01716 |
| 75 | 0.03080 | 0.02071 | 0.06001 | 0.03915 | 0.03585 | 0.02665 |
| 80 | 0.05270 | 0.03749 | 0.08388 | 0.05555 | 0.06926 | 0.04528 |
| 85 | 0.09775 | 0.07005 | 0.14035 | 0.09577 | 0.11799 | 0.08017 |
| 90 | 0.16747 | 0.12404 | 0.21554 | 0.14949 | 0.16575 | 0.13775 |
| 95 | 0.25659 | 0.21556 | 0.31025 | 0.23055 | 0.26108 | 0.23331 |
| 100 | 0.34551 | 0.31876 | 0.45905 | 0.37662 | 0.40918 | 0.35165 |

CALIFORNIA HIGHWAY PATROL

Service Retirement

- Rates vary by age and service. See sample rates in table below.

| Attained Age | Years of Service | | | | | | |
|-----------------|------------------|--------|--------|--------|--------|--------|--------|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| 50 | 0.0044 | 0.0044 | 0.0044 | 0.0044 | 0.0132 | 0.0250 | 0.0288 |
| 52 | 0.0145 | 0.0145 | 0.0145 | 0.0145 | 0.0435 | 0.0825 | 0.0950 |
| 54 | 0.0303 | 0.0303 | 0.0303 | 0.0303 | 0.0909 | 0.1725 | 0.1988 |
| 56 | 0.0271 | 0.0271 | 0.0271 | 0.0271 | 0.0813 | 0.1542 | 0.1777 |
| 58 | 0.0229 | 0.0229 | 0.0229 | 0.0229 | 0.0686 | 0.1301 | 0.1499 |
| 60 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Termination with Refund

- Rates vary by service. See sample rates in table below.

| Duration of Service | | | | | | | | | | |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 10 | 15 | 20 | 25 | 30 |
| 0.0129 | 0.0124 | 0.0121 | 0.0116 | 0.0113 | 0.0040 | 0.0029 | 0.0019 | 0.0011 | 0.0006 | 0.0003 |

Terminations with Vested Deferred Benefits

- Rates vary by service. See sample rates in table below.

| Duration of Service | | | | | | | | | | |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 6 | 7 | 8 | 9 | 10 | 15 | 20 | 25 | 30 | 35 |
| 0.0093 | 0.0091 | 0.0090 | 0.0087 | 0.0085 | 0.0082 | 0.0070 | 0.0053 | 0.0033 | 0.0026 | 0.0000 |

CALIFORNIA HIGHWAY PATROL (Continued)

Non-Industrial Death & Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Industrial Disability & Non-Industrial Disability

- Rates vary by age. See sample rates in table below.

| <u>Attained Age</u> | <u>Non-Industrial Death</u> | | <u>Non-Industrial Disability</u> | <u>Industrial Disability</u> | <u>Industrial Death</u> |
|---------------------|-----------------------------|---------------|----------------------------------|------------------------------|-------------------------|
| | <u>Male</u> | <u>Female</u> | <u>Male and Female</u> | <u>Male and Female</u> | <u>Male and Female</u> |
| 20 | 0.00047 | 0.00016 | 0.00014 | 0.00104 | 0.00003 |
| 25 | 0.00050 | 0.00026 | 0.00014 | 0.00196 | 0.00007 |
| 30 | 0.00053 | 0.00036 | 0.00014 | 0.00288 | 0.00010 |
| 35 | 0.00067 | 0.00046 | 0.00014 | 0.00380 | 0.00012 |
| 40 | 0.00087 | 0.00065 | 0.00014 | 0.00483 | 0.00013 |
| 45 | 0.00120 | 0.00093 | 0.00028 | 0.00575 | 0.00014 |
| 50 | 0.00176 | 0.00126 | 0.00028 | 0.00667 | 0.00015 |
| 55 | 0.00260 | 0.00176 | 0.00028 | 0.11890 | 0.00016 |
| 60 | 0.00395 | 0.00266 | 0.00028 | 0.11890 | 0.00017 |

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

| <u>Age</u> | <u>Healthy Recipients</u> | | <u>Non-Industrially Disabled (Not Job-Related)</u> | | <u>Industrially Disabled (Job-Related)</u> | |
|------------|---------------------------|---------------|----------------------------------------------------|---------------|--------------------------------------------|---------------|
| | <u>Male</u> | <u>Female</u> | <u>Male</u> | <u>Female</u> | <u>Male</u> | <u>Female</u> |
| 50 | 0.00239 | 0.00125 | 0.01632 | 0.01245 | 0.00443 | 0.00356 |
| 55 | 0.00474 | 0.00243 | 0.01936 | 0.01580 | 0.00563 | 0.00546 |
| 60 | 0.00720 | 0.00431 | 0.02293 | 0.01628 | 0.00777 | 0.00798 |
| 65 | 0.01069 | 0.00775 | 0.03174 | 0.01969 | 0.01388 | 0.01184 |
| 70 | 0.01675 | 0.01244 | 0.03870 | 0.03019 | 0.02236 | 0.01716 |
| 75 | 0.03080 | 0.02071 | 0.06001 | 0.03915 | 0.03585 | 0.02665 |
| 80 | 0.05270 | 0.03749 | 0.08388 | 0.05555 | 0.06926 | 0.04528 |
| 85 | 0.09775 | 0.07005 | 0.14035 | 0.09577 | 0.11799 | 0.08017 |
| 90 | 0.16747 | 0.12404 | 0.21554 | 0.14949 | 0.16575 | 0.13775 |
| 95 | 0.25659 | 0.21556 | 0.31025 | 0.23055 | 0.26108 | 0.23331 |
| 100 | 0.34551 | 0.31876 | 0.45905 | 0.37662 | 0.40918 | 0.35165 |

SCHOOLS

Service Retirement

- Rates vary by age and service. See sample rates in table below.

| Attained Age | Years of Service | | | | | | |
|-----------------|------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| 50 | 0.005 | 0.009 | 0.013 | 0.015 | 0.016 | 0.018 | 0.022 |
| 52 | 0.006 | 0.012 | 0.017 | 0.020 | 0.022 | 0.025 | 0.029 |
| 54 | 0.012 | 0.024 | 0.033 | 0.039 | 0.044 | 0.049 | 0.057 |
| 56 | 0.020 | 0.039 | 0.055 | 0.065 | 0.072 | 0.081 | 0.095 |
| 58 | 0.025 | 0.050 | 0.070 | 0.083 | 0.092 | 0.103 | 0.121 |
| 60 | 0.037 | 0.073 | 0.102 | 0.121 | 0.134 | 0.150 | 0.176 |
| 62 | 0.076 | 0.151 | 0.212 | 0.250 | 0.278 | 0.311 | 0.366 |
| 65 | 0.091 | 0.180 | 0.251 | 0.297 | 0.331 | 0.370 | 0.435 |
| 70 | 0.066 | 0.131 | 0.183 | 0.216 | 0.241 | 0.270 | 0.316 |
| 75 | 0.055 | 0.108 | 0.151 | 0.179 | 0.199 | 0.223 | 0.262 |

Termination with Refund

- Rates vary by entry age and service. See sample rates in table below.

| Duration of Service | Entry Age | | | | |
|------------------------|-----------|--------|--------|--------|--------|
| | 20 | 25 | 30 | 35 | 40 |
| 0 | 0.1730 | 0.1627 | 0.1525 | 0.1422 | 0.1319 |
| 1 | 0.1585 | 0.1482 | 0.1379 | 0.1277 | 0.1174 |
| 2 | 0.1440 | 0.1336 | 0.1234 | 0.1131 | 0.1028 |
| 3 | 0.1295 | 0.1192 | 0.1089 | 0.0987 | 0.0884 |
| 4 | 0.1149 | 0.1046 | 0.0944 | 0.0841 | 0.0738 |
| 5 | 0.0278 | 0.0249 | 0.0221 | 0.0192 | 0.0164 |
| 10 | 0.0172 | 0.0147 | 0.0122 | 0.0098 | 0.0074 |
| 15 | 0.0115 | 0.0094 | 0.0074 | 0.0053 | 0.0032 |
| 20 | 0.0073 | 0.0055 | 0.0038 | 0.0020 | 0.0002 |
| 25 | 0.0037 | 0.0023 | 0.0010 | 0.0002 | 0.0002 |
| 30 | 0.0015 | 0.0003 | 0.0002 | 0.0002 | 0.0002 |

SCHOOLS (Continued)

Termination with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

| Duration of Service | Entry Age | | | | |
|---------------------|-----------|--------|--------|--------|--------|
| | 20 | 25 | 30 | 35 | 40 |
| 5 | 0.0816 | 0.0733 | 0.0649 | 0.0566 | 0.0482 |
| 6 | 0.0782 | 0.0697 | 0.0613 | 0.0527 | 0.0443 |
| 7 | 0.0745 | 0.0660 | 0.0573 | 0.0487 | 0.0400 |
| 8 | 0.0708 | 0.0621 | 0.0534 | 0.0446 | 0.0359 |
| 9 | 0.0671 | 0.0582 | 0.0493 | 0.0404 | 0.0316 |
| 10 | 0.0629 | 0.0540 | 0.0450 | 0.0359 | - |
| 14 | 0.0558 | 0.0462 | 0.0367 | 0.0272 | - |
| 15 | 0.0537 | 0.0440 | 0.0344 | - | - |
| 19 | 0.0443 | 0.0344 | 0.0243 | - | - |
| 20 | 0.0420 | 0.0317 | - | - | - |
| 24 | 0.0319 | 0.0211 | - | - | - |
| 25 | 0.0291 | - | - | - | - |
| 29 | 0.0170 | - | - | - | - |
| 30 | - | - | - | - | - |

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Non-Industrial Disability

- Rates vary by age and gender. See sample rates in table below.

| Attained Age | Male | | Female | |
|--------------|----------------------|---------------------------|----------------------|---------------------------|
| | Non-Industrial Death | Non-Industrial Disability | Non-Industrial Death | Non-Industrial Disability |
| 20 | 0.00047 | 0.00010 | 0.00016 | 0.00010 |
| 25 | 0.00050 | 0.00010 | 0.00026 | 0.00010 |
| 30 | 0.00053 | 0.00018 | 0.00036 | 0.00010 |
| 35 | 0.00067 | 0.00064 | 0.00046 | 0.00068 |
| 40 | 0.00087 | 0.00136 | 0.00065 | 0.00094 |
| 45 | 0.00120 | 0.00283 | 0.00093 | 0.00171 |
| 50 | 0.00176 | 0.00439 | 0.00126 | 0.00299 |
| 55 | 0.00260 | 0.00489 | 0.00176 | 0.00335 |
| 60 | 0.00395 | 0.00425 | 0.00266 | 0.00239 |

SCHOOLS (Continued)

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

| Age | Healthy Recipients | | Non-Industrially Disabled (Not Job-Related) | | Industrially Disabled (Job-Related) | |
|-----|--------------------|---------|------------------------------------------------|---------|----------------------------------------|---------|
| | Male | Female | Male | Female | Male | Female |
| 50 | 0.00239 | 0.00125 | 0.01632 | 0.01245 | 0.00443 | 0.00356 |
| 55 | 0.00474 | 0.00243 | 0.01936 | 0.01580 | 0.00563 | 0.00546 |
| 60 | 0.00720 | 0.00431 | 0.02293 | 0.01628 | 0.00777 | 0.00798 |
| 65 | 0.01069 | 0.00775 | 0.03174 | 0.01969 | 0.01388 | 0.01184 |
| 70 | 0.01675 | 0.01244 | 0.03870 | 0.03019 | 0.02236 | 0.01716 |
| 75 | 0.03080 | 0.02071 | 0.06001 | 0.03915 | 0.03585 | 0.02665 |
| 80 | 0.05270 | 0.03749 | 0.08388 | 0.05555 | 0.06926 | 0.04528 |
| 85 | 0.09775 | 0.07005 | 0.14035 | 0.09577 | 0.11799 | 0.08017 |
| 90 | 0.16747 | 0.12404 | 0.21554 | 0.14949 | 0.16575 | 0.13775 |
| 95 | 0.25659 | 0.21556 | 0.31025 | 0.23055 | 0.26108 | 0.23331 |
| 100 | 0.34551 | 0.31876 | 0.45905 | 0.37662 | 0.40918 | 0.35165 |

APPENDIX B

SUMMARY OF PRINCIPAL PLAN PROVISIONS

| | |
|---------------------------------------|------|
| STATE MISCELLANEOUS TIER 1 | B-1 |
| STATE MISCELLANEOUS TIER 2 | B-8 |
| STATE INDUSTRIAL TIER 1 | B-14 |
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| SCHOOLS | B-52 |

Summary of Principal Plan Provisions

STATE MISCELLANEOUS TIER 1

The following is a summary of the major plan provisions for the most representative group used in calculating the liabilities of this plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from the **2% at 55** benefit factor table. All new members hired on or after January 15, 2011 are subject to the **2% at 60** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

| Retirement | 2% at 55 | Retirement | 2% at 60 |
|-------------------|-----------------|-------------------|-----------------|
| <u>Age</u> | <u>Factor</u> | <u>Age</u> | <u>Factor</u> |
| 50 | 1.100% | 50 | 1.092% |
| 51 | 1.280% | 51 | 1.156% |
| 52 | 1.460% | 52 | 1.224% |
| 53 | 1.640% | 53 | 1.296% |
| 54 | 1.820% | 54 | 1.376% |
| 55 | 2.000% | 55 | 1.460% |
| 56 | 2.064% | 56 | 1.552% |
| 57 | 2.126% | 57 | 1.650% |
| 58 | 2.188% | 58 | 1.758% |
| 59 | 2.250% | 59 | 1.874% |
| 60 | 2.314% | 60 | 2.000% |
| 61 | 2.376% | 61 | 2.134% |
| 62 | 2.438% | 62 | 2.272% |
| 63 & Up | 2.500% | 63 & Up | 2.418% |

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.
- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). For some new members hired after July 1, 2006 and for all new members hired on or after January 15, 2011, final compensation is based on the monthly average of the member's highest 36 consecutive months' full-time equivalent monthly pay. Employees may or may not be covered by Social Security. For employees covered by Social Security, the final compensation is offset by \$133.33 (or by one third if the final compensation is less than \$400).
- The Service Retirement benefit is not capped.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to

be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Post-Retirement Death Benefit

Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance* (PRSA) or simply as *survivor continuance*.

In other words, 25% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 75% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) will receive the Group Term Life Insurance benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

For members with less than 20 years of service credit and not age-eligible to retire:

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

For members with more than 20 years of service credit and not age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

Alternate Death Benefit

Eligibility

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

For members who are age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

1957 Survivor Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Optional Settlement 2 Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving

spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon one of the following schedules. The employer may choose to "pick-up" these contributions for the employees.

For employees covered by Social Security, the monthly compensation breakpoint is \$513 and the contribution schedule is as follows:

Approximately 28% of the active population is subject to the following schedule:

- The percent contributed below the monthly compensation breakpoint is 0%.
- The percent contributed above the monthly compensation breakpoint is 5%.

Approximately 63% of the active population is subject to the following schedule:

- The percent contributed below the monthly compensation breakpoint is 0%.
- The percent contributed above the monthly compensation breakpoint is 8%.

Approximately 2% of the active population is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.
The percent contributed above the monthly compensation breakpoint is 9%.

Approximately 7% of the active population is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.
The percent contributed above the monthly compensation breakpoint is 10%.

There are a small number of employees not covered by Social Security in this plan. For those employees, the monthly compensation breakpoint is \$317 and contributions are as follows:

The percent contributed below the monthly compensation breakpoint is 0%.
The percent contributed above the monthly compensation breakpoint is 1% greater than those covered by Social Security.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

For these benefits, please refer to the 1959 Survivor Report.

STATE MISCELLANEOUS TIER 2

The following is a summary of the major plan provisions applicable to State Miscellaneous Tier 2 members. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Tier 2 Members electing Tier 1 benefits

State Miscellaneous Tier 2 members have the right to convert their Tier 2 service to Tier 1 service provided that they make up the shortfall in their accumulated contributions with interest. In this valuation, we have assumed that all State Miscellaneous Tier 2 members will elect to convert their Tier 2 service to Tier 1 service.

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 55 with at least 10 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the benefit factor, years of service, and final compensation, where

- The benefit factor for this group of employees comes from the 1.25% at 65 Tier 2 benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

| Retirement Age | 1.25% at 65 Tier 2 Factor | Retirement Age | 1.25% at 65 Tier 2 Factor |
|---------------------------|------------------------------------------|---------------------------|------------------------------------------|
| 50 | 0.5000% | 58 | 0.9000% |
| 51 | 0.5500% | 59 | 0.9500% |
| 52 | 0.6000% | 60 | 1.0000% |
| 53 | 0.6500% | 61 | 1.0500% |
| 54 | 0.7000% | 62 | 1.1000% |
| 55 | 0.7500% | 63 | 1.1500% |
| 56 | 0.8000% | 64 | 1.2000% |
| 57 | 0.8500% | 65 & Up | 1.2500% |

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's

contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.

- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). For some new members hired after July 1, 2006 and for all new members hired on or after January 15, 2011, final compensation is based on the monthly average of the member's highest 36 consecutive months' full-time equivalent monthly pay. Employees may or may not be covered by Social Security. The final compensation is not offset by a dollar amount.
- The Service Retirement benefit is not capped.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, and has earned at least 10 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 55. Members with 5 years of service before January 1, 1985, are eligible at age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes disabled and has at least 10 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. Disabled means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit. Members with 5 years of service before January 1, 1985 are also eligible.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.125% of final compensation, multiplied by service, which is determined as follows:

- service is CalPERS credited service, for members with less than 10 years of service or greater than 29.628 years of service; or
- service is CalPERS credited service plus the additional number of years that the member would have worked until age 65, for members with at least 10 years but not more than 29.628 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Post-Retirement Death Benefit**Lump Sum Payment**

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, without a reduction in the retiree's allowance. This additional benefit is often referred to as post retirement survivor allowance (PRSA) or simply as survivor continuance.

In other words, 25% of the allowance, the continuance portion, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 75% of the retirement allowance, which may be referred to as the option portion of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this option portion to be paid to any designated beneficiary after the retiree's

death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) will receive the Group Term Life Insurance benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

For members with less than 20 years of service credit and not age-eligible to retire:

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of six months' salary which shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

For members with more than 20 years of service credit and not age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

Alternate Death Benefit

Eligibility

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

For members who are age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

1957 Survivor Benefit**Eligibility**

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Optional Settlement 2 Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit**Eligibility**

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed and has attained retirement eligibility. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance

that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 3%.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

1959 SURVIVOR BENEFITS PROGRAM

For these benefits, please refer to the 1959 Survivor Report.

STATE INDUSTRIAL TIER 1

The following is a summary of the major plan provisions for the most representative group used in calculating the liabilities of the plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM**Service Retirement****Eligibility**

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from the **2% at 55** benefit factor table. All new members hired on or after January 15, 2011 are subject to the **2% at 60** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

| Retirement Age | 2% at 55 Factor | Retirement Age | 2% at 60 Factor |
|---------------------------|----------------------------|---------------------------|----------------------------|
| 50 | 1.100% | 50 | 1.092% |
| 51 | 1.280% | 51 | 1.156% |
| 52 | 1.460% | 52 | 1.224% |
| 53 | 1.640% | 53 | 1.296% |
| 54 | 1.820% | 54 | 1.376% |
| 55 | 2.000% | 55 | 1.460% |
| 56 | 2.064% | 56 | 1.552% |
| 57 | 2.126% | 57 | 1.650% |
| 58 | 2.188% | 58 | 1.758% |
| 59 | 2.250% | 59 | 1.874% |
| 60 | 2.314% | 60 | 2.000% |
| 61 | 2.376% | 61 | 2.134% |
| 62 | 2.438% | 62 | 2.272% |
| 63 & Up | 2.500% | 63 & Up | 2.418% |

- The years of service is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each

employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.

- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). For some new members hired after July 1, 2006 and for all new members hired on or after January 15, 2011, final compensation is based on the monthly average of the member's highest 36 consecutive months' full-time equivalent monthly pay. Employees may or may not be covered by Social Security. For employees covered by Social Security, the final compensation is offset by \$133.33 (or by one third if the final compensation is less than \$400).
- The Service Retirement benefit is not capped.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, and has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes disabled and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. Disabled means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Industrial (Job-Related) Disability Retirement**Eligibility**

An employee is eligible for Industrial Disability Retirement if he or she becomes *disabled* while working, where *disabled* means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described in the next paragraph.

Benefit

The Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation. However, if a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit. For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return or annuitization of the accumulated member contributions with respect to employment in this group.

Post-Retirement Death Benefit**Lump Sum Payment**

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger

the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance* (PRSA) or simply as *survivor continuance*.

In other words, 25% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 75% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) will receive the Group Term Life Insurance benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

For members with less than 20 years of service credit and not age-eligible to retire:

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Special Death Benefit**Eligibility**

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death, at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- if 1 eligible child: 12.5% of final compensation
- if 2 eligible children: 20.0% of final compensation
- if 3 or more eligible children: 25.0% of final compensation

For members with more than 20 years of service credit and not age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

Alternate Death Benefit**Eligibility**

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

For members who are age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

1957 Survivor Benefit**Eligibility**

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit**Eligibility**

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance

that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon one of the following schedules. The employer may choose to “pick-up” these contributions for the employees.

For employees covered by Social Security, the monthly compensation breakpoint is \$513 and the contribution schedule is as follows:

Approximately 97% of the active population is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.
The percent contributed above the monthly compensation breakpoint is 8%.

Approximately 1% of the active population is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.
The percent contributed above the monthly compensation breakpoint is 9%.

Approximately 2% of the active population is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.
The percent contributed above the monthly compensation breakpoint is 10%.

There are a small number of employees not covered by Social Security in this plan. For those employees, the monthly compensation breakpoint is \$317 and contributions are as follows:

The percent contributed below the monthly compensation breakpoint is 0%.

The percent contributed above the monthly compensation breakpoint is 1% greater than those covered by Social Security.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

For these benefits, please refer to the 1959 Survivor Report

STATE INDUSTRIAL TIER 2

The following is a summary of the major plan provisions applicable to State Industrial Tier 2 Members. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Tier 2 Members electing Tier 1 benefits

State Industrial Tier 2 members have the right to convert their Tier 2 service to Tier 1 service provided that they make up the shortfall in their accumulated contributions with interest. In this valuation, we have assumed that all State Industrial Tier 2 members will elect to convert their Tier 2 service to Tier 1 service.

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 55 with at least 10 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements). Members with 5 years of service before January 1, 1985 are also eligible.

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from the **1.25% at 65 Tier 2** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

| | 1.25% at 65 | | 1.25% at 65 |
|-------------------|--------------------|-------------------|--------------------|
| Retirement | Tier 2 | Retirement | Tier 2 |
| <u>Age</u> | <u>Factor</u> | <u>Age</u> | <u>Factor</u> |
| 50 | 0.5000% | 58 | 0.9000% |
| 51 | 0.5500% | 59 | 0.9500% |
| 52 | 0.6000% | 60 | 1.0000% |
| 53 | 0.6500% | 61 | 1.0500% |
| 54 | 0.7000% | 62 | 1.1000% |
| 55 | 0.7500% | 63 | 1.1500% |
| 56 | 0.8000% | 64 | 1.2000% |
| 57 | 0.8500% | 65 & Up | 1.2500% |

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's

contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.

- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). For some new members hired after July 1, 2006 and for all new members hired on or after January 15, 2011, final compensation is based on the monthly average of the member's highest 36 consecutive months' full-time equivalent monthly pay. The employees in this group may or may not be covered by Social Security. The final compensation is not offset by a dollar amount.
- The Service Retirement benefit is not capped.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 10 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements). Members with 5 years of service before January 1, 1985 are also eligible.

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 55.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 10 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit. Members with 5 years of service before January 1, 1985 are also eligible.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.125% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 29.628 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 65, for members with at least 10 years but not more than 29.628 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Industrial (Job-Related) Disability Retirement**Eligibility**

An employee is eligible for Industrial Disability Retirement if he or she becomes *disabled* while working, where *disabled* means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described in the next paragraph.

Benefit

The Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation. However, if a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit. For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return or annuitization of the accumulated member contributions with respect to employment in this group.

Post-Retirement Death Benefit**Lump Sum Payment**

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger

the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance* (PRSA) or simply as *survivor continuance*.

In other words, 25% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 75% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) will receive the Group Term Life Insurance benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

For members with less than 20 years of service credit and not age-eligible to retire:

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of six months' salary which shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Special Death Benefit**Eligibility**

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death, at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- if 1 eligible child: 12.5% of final compensation
- if 2 eligible children: 20.0% of final compensation
- if 3 or more eligible children: 25.0% of final compensation

For members with more than 20 years of service credit and not age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

Alternate Death Benefit**Eligibility**

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

For members who are age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

1957 Survivor Benefit**Eligibility**

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit**Eligibility**

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed and has attained retirement eligibility. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving

beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 3%.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

1959 SURVIVOR BENEFITS PROGRAM

For these benefits, please refer to the 1959 Survivor Report

STATE SAFETY

The following is a summary of the major plan provisions for the most representative group used in calculating the liabilities of the plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from the **2.5% at 55 Safety** benefit factor table. All new members hired on or after January 15, 2011 are subject to either the **2% at 55 Safety** or the **2.5% at 60 Safety** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

| Retirement Age | 2.5% at 55 Safety Factor | Retirement Age | 2% at 55 Safety Factor | Retirement Age | 2.5% at 60 Safety Factor |
|---------------------------|-----------------------------------------|---------------------------|---------------------------------------|---------------------------|-----------------------------------------|
| 50 | 1.700% | 50 | 1.426% | 50 | 1.426% |
| 51 | 1.800% | 51 | 1.522% | 51 | 1.522% |
| 52 | 1.900% | 52 | 1.628% | 52 | 1.628% |
| 53 | 2.000% | 53 | 1.742% | 53 | 1.742% |
| 54 | 2.250% | 54 | 1.866% | 54 | 1.866% |
| 55 & Up | 2.500% | 55 & Up | 2.000% | 55 | 2.000% |
| | | | | 56 | 2.100% |
| | | | | 57 | 2.200% |
| | | | | 58 | 2.300% |
| | | | | 59 | 2.400% |
| | | | | 60 & Up | 2.500% |

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick

leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.

- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). For some new members hired after July 1, 2006 and for all new members hired on or after January 15, 2011, final compensation is based on the monthly average of the member's highest 36 consecutive months' full-time equivalent monthly pay. The employees in this group are not covered by Social Security. The final compensation is not offset by a dollar amount.
- The Service Retirement benefit is capped at 80% of final compensation.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Industrial (Job-Related) Disability Retirement

Eligibility

An employee is eligible for Industrial Disability Retirement if he or she becomes *disabled* while working, where *disabled* means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described in the next paragraph.

Benefit

The Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation. However, if a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit. For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return or annuitization of the accumulated member contributions with respect to employment in this group.

Post-Retirement Death Benefit

Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 50% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance* (PRSA) or simply as *survivor continuance*.

In other words, 50% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 50% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) will receive the Group Term Life Insurance benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

For members with less than 20 years of service credit and not age-eligible to retire:

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the

Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Special Death Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death, at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- if 1 eligible child: 12.5% of final compensation
- if 2 eligible children: 20.0% of final compensation
- if 3 or more eligible children: 25.0% of final compensation

For members with more than 20 years of service credit and not age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

Alternate Death Benefit

Eligibility

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid

to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

For members who are age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

1957 Survivor Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon the following schedule. The employer may choose to “pick-up” these contributions for the employees. For all active members, the monthly compensation breakpoint is \$317.

Approximately 57% of the active population is subject to the following schedule:

- The percent contributed below the monthly compensation breakpoint is 0%.
- The percent contributed above the monthly compensation breakpoint is 9%.

Less than 1% of the active population is subject to the following schedule:

- The percent contributed below the monthly compensation breakpoint is 0%.
- The percent contributed above the monthly compensation breakpoint is 10%.

Approximately 42% of the active population is subject to the following schedule:

- The percent contributed below the monthly compensation breakpoint is 0%.
- The percent contributed above the monthly compensation breakpoint is 11%.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

For these benefits, please refer to the 1959 Survivor Report

STATE PEACE OFFICERS AND FIREFIGHTERS

The following is a summary of the major plan provisions for the most representative group used in calculating the liabilities of this plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from either the **3% at 55** or the **3% at 50** benefit factor table. All new members, except firefighters, hired on or after January 15, 2011 are subject to the **2.5% at 55 Safety** benefit factor table. All new firefighters hired on or after October 31, 2010 are subject to the **3% at 55** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

| <u>Retirement Age</u> | <u>3% at 55 Factor</u> | <u>Retirement Age</u> | <u>3% at 50 Factor</u> | <u>Retirement Age</u> | <u>2.5% at 55 Factor</u> |
|-----------------------|------------------------|-----------------------|------------------------|-----------------------|--------------------------|
| 50 | 2.400% | 50 & Up | 3.000% | 50 | 2.000% |
| 51 | 2.520% | | | 51 | 2.100% |
| 52 | 2.640% | | | 52 | 2.200% |
| 53 | 2.760% | | | 53 | 2.300% |
| 54 | 2.880% | | | 54 | 2.400% |
| 55 & Up | 3.000% | | | 55 & Up | 2.500% |

- As of June 30, 2010, about 99.8% of its active members are subject to the **3% at 50** benefit factor. The rest of its active members (about 0.2%) are subject to the **3% at 55** benefit factor.
- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick

leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.

- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). For some new members hired after January 1, 2007 and for all new members hired on or after January 15, 2011, final compensation is based on the monthly average of the member's highest 36 consecutive months' full-time equivalent monthly pay. The employees in this group are not covered by Social Security. The final compensation is not offset by a dollar amount.
- The Service Retirement benefit is capped at 90% of final compensation.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Industrial (Job-Related) Disability Retirement

Eligibility

An employee is eligible for Industrial Disability Retirement if he or she becomes *disabled* while working, where *disabled* means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described in the next paragraph.

Benefit

The Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation. However, if a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit. For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return or annuitization of the accumulated member contributions with respect to employment in this group.

Post-Retirement Death Benefit

Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 50% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance* (PRSA) or simply as *survivor continuance*.

In other words, 50% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 50% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) will receive the Group Term Life Insurance benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

For members with less than 20 years of service credit and not age-eligible to retire:

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the

Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Special Death Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death, at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- if 1 eligible child: 12.5% of final compensation
- if 2 eligible children: 20.0% of final compensation
- if 3 or more eligible children: 25.0% of final compensation

For members with more than 20 years of service credit and not age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

Alternate Death Benefit

Eligibility

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid

to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

For members who are age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

1957 Survivor Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon one of the following schedules. The employer may choose to “pick-up” these contributions for the employees.

Approximately 80% of the active population has a monthly compensation breakpoint of \$863 and is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.

The percent contributed above the monthly compensation breakpoint is 11%.

Approximately 14% of the active population has a monthly compensation breakpoint of \$238 and is subject to the following schedule:

Approximately one third of the 14% is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.

The percent contributed above the monthly compensation breakpoint is 8%.

Approximately two thirds of the 14% is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.

The percent contributed above the monthly compensation breakpoint is 10%.

Approximately 6% of the active population has a monthly compensation breakpoint of \$513 and is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.

The percent contributed above the monthly compensation breakpoint is 10%.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

For these benefits, please refer to the 1959 Survivor Report

CALIFORNIA HIGHWAY PATROL

The following is a summary of the major plan provisions used in calculating the liabilities of the plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees is **3% at all ages**, it does not depend on the member's age at retirement. All new members hired on or after October 31, 2010 are subject to the **3% at 55** benefit factor table.

| <u>Retirement Age</u> | <u>3% at 55 Factor</u> |
|-----------------------|------------------------|
| 50 | 2.400% |
| 51 | 2.520% |
| 52 | 2.640% |
| 53 | 2.760% |
| 54 | 2.880% |
| 55 | 3.000% |

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS including service at the CHP Academy for graduating members). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.
- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). In addition, the final compensation used for calculating retirement benefits will be increased according to the following schedule:

- 8% for members who retire or die on or after July 1, 2004, and prior to July 1, 2008
- 6% for members who retire or die on or after July 1, 2008, and prior to July 1, 2009
- 4% for members who retire or die on or after July 1, 2009, and prior to July 1, 2010
- 2% for members who retire or die on or after July 1, 2010, and prior to July 1, 2011
- No increase for members who retire or die on or after July 1, 2011

The *final compensation* for an employee hired on or after October 31, 2010 is the monthly average of the member's highest 36 consecutive months' full-time equivalent monthly pay.

- The employees in this group are not covered by Social Security. The final compensation is not offset by a dollar amount.
- The Service Retirement benefit is capped at 90% of final compensation.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Industrial (Job-Related) Disability Retirement**Eligibility**

An employee is eligible for Industrial Disability Retirement if he or she becomes *disabled* while working, where *disabled* means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described in the next paragraph.

Benefit

The Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation. For members who, as a result of a single event, incur serious bodily injury, the benefit provided is equal to the greater of 50% of final compensation, or, three percent of final compensation multiplied by the number of years of service credited to the member, plus an annuity purchased with the accumulated additional contributions, if any. However, if a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit, plus an annuity purchased with the accumulated additional contributions, if any. For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return or annuitization of the accumulated member contributions with respect to employment in this group.

Post-Retirement Death Benefit**Lump Sum Payment**

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 50% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance* (PRSA) or simply as *survivor continuance*.

In other words, 50% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 50% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) will receive the Group Term Life Insurance benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

For members with less than 20 years of service credit and not age-eligible to retire:

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Special Death Benefit**Eligibility**

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death, at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- if 1 eligible child: 12.5% of final compensation
- if 2 eligible children: 20.0% of final compensation
- if 3 or more eligible children: 25.0% of final compensation

For members with more than 20 years of service credit and not age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

Alternate Death Benefit

Eligibility

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

For members who are age-eligible to retire:

In addition to the above pre-retirement death benefits, members are eligible for:

1957 Survivor Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving

spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon the following schedule. The employer may choose to "pick-up" these contributions for the employees.

Approximately 85% of the active population has a monthly compensation breakpoint of \$863 and is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.

The percent contributed above the monthly compensation breakpoint is 10%.

Approximately 15% of the active population has a monthly compensation breakpoint of \$513 and is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.

The percent contributed above the monthly compensation breakpoint is 10%.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

For these benefits, please refer to the 1959 Survivor Report

SCHOOLS

The following is a summary of the major plan provisions for the most representative group used in calculating the liabilities of this plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from the **2% at 55** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

| Retirement Age | 2% at 55 Factor |
|---------------------------|----------------------------|
| 50 | 1.100% |
| 51 | 1.280% |
| 52 | 1.460% |
| 53 | 1.640% |
| 54 | 1.820% |
| 55 | 2.000% |
| 56 | 2.064% |
| 57 | 2.126% |
| 58 | 2.188% |
| 59 | 2.250% |
| 60 | 2.314% |
| 61 | 2.376% |
| 62 | 2.438% |
| 63 & Up | 2.500% |

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each

employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.

- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The employees in this plan may or may not be covered by Social Security. For employees with service prior to January 1, 2001 covered by Social Security, the final compensation is offset by \$133.33 (or by one-third if the final compensation is less than \$400).
- The Service Retirement benefit is not capped.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Post-Retirement Death Benefit

Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance (50% for service not covered by Social Security). This additional benefit is often referred to as *post retirement survivor allowance* (PRSA) or simply as *survivor continuance*.

In other words, 25% of the allowance (or 50% for service not covered by Social Security), the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 75% of the retirement allowance (or 50% for service not covered by Social Security), which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary is paid. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

1957 Survivor Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon one of the following schedules. The employer may choose to “pick-up” these contributions for the employees.

The contribution schedule is as follows:

The percent contributed below the monthly compensation breakpoint is 0%.

The monthly compensation breakpoint is \$0.

The percent contributed above the monthly compensation breakpoint is 7%.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

For these benefits, please refer to the 1959 Survivor Report

APPENDIX C

INVESTMENT RETURN SENSITIVITY ANALYSIS

C-1

Investment Return Sensitivity Analysis

As part of this report, a sensitivity analysis was performed to determine the effects of various investment returns during fiscal years 2011-2012, 2012-2013 and 2013-2014 on the 2013-2014, 2014-2015 and 2015-2016 employer rates. The projected rate increases assume that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur.

Five different investment return scenarios were selected.

- The first scenario is what one would expect if the markets were to give us a 5th percentile return from July 1, 2011 through June 30, 2014. The 5th percentile return corresponds to a -3.64% return for each of the 2011-2012, 2012-2013 and 2013-2014 fiscal years.
- The second scenario is what one would expect if the markets were to give us a 25th percentile return from July 1, 2011 through June 30, 2014. The 25th percentile return corresponds to a 2.93% return for each of the 2011-2012, 2012-2013 and 2013-2014 fiscal years.
- The third scenario assumed the return for 2011-2012, 2012-2013, and 2013-2014 would be our assumed 7.75% investment return which represents about a 49th percentile event.
- The fourth scenario is what one would expect if the markets were to give us a 75th percentile return from July 1, 2011 through June 30, 2014. The 75th percentile return corresponds to a 12.25% return for each of the 2011-2012, 2012-2013 and 2013-2014 fiscal years.
- Finally, the last scenario is what one would expect if the markets were to give us a 95th percentile return from July 1, 2011 through June 30, 2014. The 95th percentile return corresponds to a 19.02% return for each of the 2011-2012, 2012-2013 and 2013-2014 fiscal years.

The tables below show the projected contribution rates for 2013-2014 through 2015-2016 for the various State Plans under the five different scenarios.

| Estimated: 2013 - 2014 | Investment Scenario | | | | |
|----------------------------|---------------------|-----------------|-------|-----------------|-----------------|
| | 5th percentile | 25th percentile | | 75th percentile | 95th percentile |
| | -3.64% | 2.93% | 7.75% | 12.25% | 19.02% |
| State Miscellaneous Tier 1 | 21.2% | 19.0% | 18.9% | 18.8% | 18.6% |
| State Miscellaneous Tier 2 | 20.0% | 17.8% | 17.7% | 17.6% | 17.5% |
| State Industrial | 16.4% | 15.4% | 15.3% | 15.2% | 15.1% |
| State Safety | 17.1% | 16.7% | 16.6% | 16.6% | 16.5% |
| POFF | 30.0% | 28.0% | 27.9% | 27.8% | 27.6% |
| CHP | 34.7% | 32.2% | 32.1% | 32.0% | 31.8% |
| Schools | 12.9% | 11.5% | 11.4% | 11.3% | 11.2% |

| Estimated: 2014 - 2015 | Investment Scenario | | | | |
|----------------------------|---------------------|-----------------|-------|-----------------|-----------------|
| | 5th percentile | 25th percentile | | 75th percentile | 95th percentile |
| | -3.64% | 2.93% | 7.75% | 12.25% | 19.02% |
| State Miscellaneous Tier 1 | 25.3% | 20.7% | 19.2% | 18.9% | 18.4% |
| State Miscellaneous Tier 2 | 24.2% | 19.5% | 18.0% | 17.7% | 17.3% |
| State Industrial | 19.1% | 15.9% | 15.5% | 15.3% | 15.0% |
| State Safety | 19.1% | 16.9% | 16.7% | 16.6% | 16.3% |
| POFF | 34.4% | 29.1% | 28.1% | 27.8% | 27.3% |
| CHP | 40.0% | 33.9% | 32.5% | 32.1% | 31.6% |
| Schools | 16.0% | 12.5% | 11.6% | 11.4% | 11.0% |

| Estimated: 2015 - 2016 | Investment Scenario | | | | |
|----------------------------|---------------------|-----------------|-------|-----------------|-----------------|
| | 5th percentile | 25th percentile | | 75th percentile | 95th percentile |
| | -3.64% | 2.93% | 7.75% | 12.25% | 19.02% |
| State Miscellaneous Tier 1 | 28.9% | 22.6% | 19.5% | 18.9% | 18.0% |
| State Miscellaneous Tier 2 | 27.8% | 21.5% | 18.3% | 17.8% | 16.8% |
| State Industrial | 21.5% | 17.1% | 15.6% | 15.2% | 14.6% |
| State Safety | 21.0% | 17.4% | 16.8% | 16.5% | 16.0% |
| POFF | 38.5% | 31.0% | 28.3% | 27.6% | 26.6% |
| CHP | 44.7% | 36.3% | 32.9% | 32.1% | 30.9% |
| Schools | 18.7% | 13.9% | 11.8% | 11.4% | 10.7% |

APPENDIX D

HYPOTHETICAL RATES FOR CALIFORNIA STATE UNIVERSITY

D-1

Hypothetical Rates for California State University

A request was made for separate rates to be calculated for California State University (CSU) employees. CSU employees participate in both the State Miscellaneous Plan and the POFF plan. There is no mandate requiring the separate rates for these groups of employees, and the rates adopted by the CalPERS Board are common for both groups. However, separate rates have been calculated for informational purposes and are displayed in the table below.

| | Expected Employer Contribution | Employer Rate |
|--------------------------------------------------------|---------------------------------------|----------------------|
| State Miscellaneous Tier 1 (Non-CSU) | \$ 1,345,996,416 | 17.381% |
| State Miscellaneous Tier 1 (CSU) | 483,693,798 | 20.248% |
| State Miscellaneous Tier 2 | 65,054,003 | 17.025% ¹ |
| State Peace Officers and Firefighters (Non-CSU) | 935,912,808 | 27.330% |
| State Peace Officers and Firefighters (CSU) | 8,991,590 | 29.717% |

¹ Note that even though State Miscellaneous Tier 2 members do not have member contributions, the employer contribution rate still needs to be adjusted to account for the fact that State Miscellaneous and State Industrial Tier 2 members have the right to convert their Tier 2 service to Tier 1 any time prior to retirement.