

Actuarial Office P.O. Box 1494 Sacramento, CA 95812-1494 TTY for Speech and Hearing Impaired - (916) 795-3240 (888) CalPERS (or 888-225-7377) FAX (916) 795-3005

October 2010

SAFETY POLICE PLAN OF THE CITY OF ANAHEIM (EMPLOYER # 303) Annual Valuation Report as of June 30, 2009

Dear Employer,

As an attachment to this letter, you will find a copy of the June 30, 2009 actuarial valuation report of your pension plan. This report contains important actuarial information about your pension plan at CalPERS. Your CalPERS staff actuary is available to discuss the report with you.

Changes Since the Prior Year's Valuation

The CalPERS' Board of Administration adopted updated actuarial assumptions to be used beginning with the June 30, 2009 valuation. In addition, a temporary modification to our method of determining the actuarial value of assets and amortizing gains and losses has been implemented for the valuations as of June 30, 2009 through June 30, 2011. Finally, a cash flow analysis has been added to our process. If such an analysis indicates that funding progress will not be adequate, an additional contribution will be required.

There may also be changes specific to your plan such as contract amendments and funding changes.

Further descriptions of changes are included in the "Highlights and Executive Summary" section and in Appendix A, "Statement of Actuarial Data, Methods and Assumptions." The effect of the changes on your rate is included in the "Reconciliation of Required Employer Contributions."

Future Contribution Rates

The exhibit below displays the required employer contribution rate and Superfunded status for 2011/2012 along with estimates of the contribution rate for 2012/2013 and 2013/2014 and the probable Superfunded status for 2012/2013. The estimated rate for 2012/2013 is based solely on a projection of the investment return for fiscal 2009/2010, namely 11.0%. The estimated rate for 2013/2014 uses the valuation assumption of 7.75% as the investment return for fiscal 2010/2011. See Appendix D, "Investment Return Sensitivity Analysis", for rate projections under a variety of investment return scenarios. Please disregard any projections that we may have provided to you in the past.

Fiscal Year	Employer Contribution Rate	Superfunded?
2011/2012	30.623%	NO
2012/2013	31.9% (projected)	NO
2013/2014	36.5% (projected)	N/A

Member contributions (whether paid by the employer or the employee) are in addition to the above rates.

The estimates for 2012/2013 and 2013/2014 also assume that there are no future amendments and no liability gains or losses (such as larger than expected pay increases, more retirements than expected, etc.). This is a very important assumption because these gains and losses do occur and can have a significant impact on your contribution rate. Even for the largest plans, such gains and losses often cause a change in the employer's contribution rate of one or two percent and may be even larger in some less common instances. These gains and losses cannot be predicted in advance so the projected employer contribution rates are just estimates. Your actual rate for 2012/2013 will be provided in next year's report.

SAFETY POLICE PLAN OF THE CITY OF ANAHEIM (EMPLOYER # 303) October 2010 Page 2

We are very busy preparing actuarial valuations for other public agencies and expect to complete all such valuations by the end of October. We understand that you might have a number of questions about these results. While we are very interested in discussing these results with your agency, in the interest of allowing us to give every public agency their result, we ask that, if at all possible, you wait until after October 31 to contact us with questions. If you have questions, please call (888) CalPERS (225-7377).

Sincerely,

ALAN MILLIGAN, MAAA, FCA, FSA, FCIA

Chief Actuary

ACTUARIAL VALUATION

as of June 30, 2009

for the SAFETY POLICE PLAN of the CITY OF ANAHEIM

(EMPLOYER # 303)

REQUIRED CONTRIBUTIONS FOR FISCAL YEAR July 1, 2011 – June 30, 2012



California Public Employees' Retirement System P.O. Box 942709 Sacramento, CA 94229-2709 (888) CalPERS (225-7377)

TABLE OF CONTENTS

ACTUARIAL CERTIFICATION	1
Purpose of the Report Required Contributions Funded Status Cost and Volatility Changes Since the Prior Valuation	5 5 5 6 7
SUMMARY OF LIABILITIES AND RATES	
Development of Accrued and Unfunded Liabilities (Gain) / Loss Analysis Schedule of Amortization Bases Reconciliation of Required Employer Contributions Employer Contribution Rate History Funding History	11 12 13 14 15
SUMMARY OF ASSETS	
Reconciliation of the Market Value of Assets Development of the Actuarial Value of Assets Asset Allocation	19 19 20
SUMMARY OF PARTICIPANT DATA	
Summary of Valuation Data Active Members Transferred and Terminated Members Retired Members and Beneficiaries	23 24 25 26
APPENDIX A	
Statement of Actuarial Data, Methods and Assumptions	
APPENDIX B Summary of Principal Plan Provisions	
APPENDIX C GASB Statement No. 27	
APPENDIX D	

APPENDIX E

Investment Return Sensitivity Analysis

Glossary of Actuarial Terms

ACTUARIAL CERTIFICATION

To the best of our knowledge, this report is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the SAFETY POLICE PLAN OF THE CITY OF ANAHEIM. This valuation is based on the member and financial data as of June 30, 2009 provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. 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 this plan, as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

The undersigned listed are actuaries for CalPERS. Both are members of the American Academy of Actuaries and the Society of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Richard Santos, CFA, ASA, MAAA Senior Pension Actuary, CalPERS

Plan Actuary

ALAN MILLIGAN, MAAA, FCA, FSA, FCIA

Chief Actuary

HIGHLIGHTS AND EXECUTIVE SUMMARY

- PURPOSE OF THE REPORT
- REQUIRED CONTRIBUTIONS
- FUNDED STATUS
- COST AND VOLATILITY
- CHANGES SINCE THE PRIOR VALUATION

Purpose of the Report

This report presents the results of the June 30, 2009 actuarial valuation of the SAFETY POLICE PLAN OF THE CITY OF ANAHEIM of the California Public Employees' Retirement System (CalPERS). The valuation was prepared by the Plan Actuary in order to:

- set forth the actuarial assets and accrued liabilities of this plan as of June 30, 2009;
- certify that the actuarially required employer contribution rate of this plan for the fiscal year July 1, 2011 through June 30, 2012 is 30.623%;
- provide actuarial information as of June 30, 2009 to the CalPERS Board of Administration and other interested parties; and
- provide pension information as of June 30, 2009 to be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement Number 27 for a Single Employer Defined Benefit Pension Plan.

Use of this report for other purposes may be inappropriate.

Required Contributions

Required Employer Contributions	Fiscal Year 2010/2011		Fiscal Year 2011/2012
Required Employer Contributions			
Employer Contribution Required (in Projected Dollars)			
Payment for Normal Cost	\$ 8,781,816	\$	9,842,463
Payment on the Amortization Bases	4,123,942		5,669,747
Total (not less than zero)	\$ 12,905,758	\$	15,512,210
Annual Lump Sum Prepayment Option*	\$ 12,432,970	\$	14,943,937
Employer Contribution Required (Percentage of Payroll)			
Payment for Normal Cost	18.041%		19.430%
Payment on the Amortization Bases	8.472%		11.193%
Total (not less than zero)	 26.513%	_	30.623%

Funded Status

		June 30, 2008	-	June 30, 2009
Present Value of Projected Benefits \$;	562,293,766	\$	607,363,562
Entry Age Normal Accrued Liability \$;	457,588,313	\$	496,422,604
Actuarial Value of Assets (AVA)		392,205,533		411,137,205
Unfunded Liability \$; _	65,382,780	\$	85,285,399
Market Value of Assets (MVA) \$;	400,946,587	\$	300,534,232
Funded Status (on an MVA basis)		87.6%		60.5%
Superfunded Status		No		No

^{*} Payment **must be** received by CalPERS between July 1 and July 15.

Cost and Volatility

Actuarial Cost Estimates in General

What will this pension plan cost? Unfortunately, there is no simple answer. There are two major reasons for the complexity of the answer. First, all actuarial calculations, including the ones in this report, are based on a number of assumptions about the future. These assumptions can be divided into two categories.

- Demographic assumptions include the percentage of employees that will terminate, die, become disabled, and retire in each future year.
- Economic assumptions include future salary increases for each active employee, and the assumption with the greatest impact, future asset returns at CalPERS for each year into the future until the last dollar is paid to current members of your plan.

While CalPERS has set these assumptions to reflect our best estimate of the real future of your plan, it must be understood that these assumptions are very long term predictors and will surely not be realized in any one year. For example, while the asset earnings at CalPERS have averaged more than the assumed return of 7.75% for the past twenty year period ending June 30, 2010 returns for each fiscal year ranged from -24% to +20.1%

Second, the very nature of actuarial funding produces the answer to the question of plan cost as the sum of two separate pieces.

- The Normal Cost (i.e., the future annual premiums in the absence of surplus or unfunded liability) expressed as a percentage of total active payroll.
- The Past Service Cost or Accrued Liability (i.e., the current value of the benefit for all credited past service of current members) which is expressed as a lump sum dollar amount.

The cost is the sum of a percent of future pay and a lump sum dollar amount (the sum of an apple and an orange if you will). To communicate the total cost, either the Normal Cost (i.e., future percent of payroll) must be converted to a lump sum dollar amount (in which case the total cost is the present value of benefits), or the Past Service Cost (i.e., the lump sum) must be converted to a percent of payroll (in which case the total cost is expressed as the employer's rate, part of which is permanent and part temporary). Converting the Past Service Cost lump sum to a percent of payroll requires a specific amortization period, and the employer rate will vary depending on the amortization period chosen.

Rate Volatility

As is stated above, the actuarial calculations supplied in this communication are based on a number of assumptions about very long term demographic and economic behavior. Unless these assumptions (terminations, deaths, disabilities, retirements, salary growth, and investment return) are exactly realized each year, there will be differences on a year to year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise the employer's rates from one year to the next. Therefore, the rates will inevitably fluctuate, especially due to the ups and downs of investment returns.

Plans that have higher asset to payroll ratios produce more volatile employer rates due to investment return. On the following page we have shown your volatility index, a measure of the plan's potential future rate volatility. It should be noted that this ratio increases over time but generally tends to stabilize as the plan matures.

	As of June 30, 2009		
Market Value of Assets without Receivables	\$	299,732,314	
Payroll		46,021,500	
Volatility Index		6.5	

Changes since the Prior Valuation

Actuarial Assumptions

CalPERS recently completed an experience study that analyzed demographic data for the years 1997 to 2007. As a result of this study, the CalPERS' Board of Administration adopted updated actuarial assumptions to be used beginning with the June 30, 2009 valuation. Nearly all of the demographic assumptions have changed, including salary increase assumptions and rates for mortality, disability, termination and retirement. Of these, the change to the post retirement mortality assumption had the most significant impact on contribution rates.

The new assumptions are described in Appendix A. The effect of the change in assumptions on the unfunded liability is shown in the "(Gain)/Loss Analysis" and the effect on your employer contribution rate is included in the "Reconciliation of Required Employer Contributions".

Actuarial Methods

In June 2009, the CalPERS Board adopted changes to the asset smoothing method as well as changes to the Board policy on the amortization of gains and losses 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:

- Increase the corridor limits for the actuarial value of assets from 80%-120% of market value to 60%-140% of market value on June 30, 2009
- Reduce the corridor limits for the actuarial value of assets to 70%-130% of market value on June 30, 2010
- Return to the 80%-120% of market value corridor limits for the actuarial value of assets on June 30, 2011 and thereafter
- Isolate and amortize all gains and losses during fiscal year 2008-2009, 2009-2010 and 2010-2011 over fixed and declining 30 year periods (as opposed to the current rolling 30 year amortization)

In addition, in February 2010 the CalPERS Board adopted a resolution requiring additional contributions for any plan or pool if the cash flows hamper 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, 2043; or
- Reach a level of 75% funded by June 30, 2043

A complete description of all methods is in Appendix A. The detailed calculation of the actuarial value of assets is shown in the "Development of the Actuarial Value of Assets." The effect of the change in method

on the unfunded liability is shown in the "(Gain)/Loss Analysis" and the effect on your employer contribution rate is included in the "Reconciliation of Required Employer Contributions."

Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation with a valuation date on or after the effective date of the legislation. Voluntary benefit changes by plan amendment are generally included in the first valuation with a report dated after the amendment effective date.

This valuation generally reflects plan changes by amendments effective before the date of the report. Please refer to Appendix B for a summary of the plan provisions used in the valuation. The effect of any mandated benefit changes or plan amendments on the unfunded liability is shown in the "(Gain)/Loss Analysis" and the effect on your employer contribution rate is shown in the "Reconciliation of Required Employer Contributions". It should be noted that no change in liability or rate is shown for any plan changes which were already included in the prior year's valuation.

SUMMARY OF LIABILITIES AND RATES

- DEVELOPMENT OF ACCRUED AND UNFUNDED LIABILITIES
- (GAIN) / LOSS ANALYSIS
- SCHEDULE OF AMORTIZATION BASES
- RECONCILIATION OF REQUIRED EMPLOYER CONTRIBUTIONS
- EMPLOYER CONTRIBUTION RATE HISTORY
- FUNDING HISTORY

Development of Accrued and Unfunded Liabilities

1.	Present Value of Projected Benefits a) Active Members b) Transferred Members c) Terminated Members d) Members and Beneficiaries Receiving Payments e) Total	\$ 	313,876,664 3,886,794 3,148,382 286,451,722 607,363,562
2.	Present Value of Future Employer Normal Costs	\$	75,302,552
3.	Present Value of Future Employee Contributions	\$	35,638,406
4.	Entry Age Normal Accrued Liability a) Active Members b) Transferred Members c) Terminated Members d) Members and Beneficiaries Receiving Payments e) Total	\$ _	202,935,706 3,886,794 3,148,382 286,451,722 496,422,604
5.	Actuarial Value of Assets	\$	411,137,205
6.	Unfunded Accrued Liability [(4e) – (5)]	\$	85,285,399

(Gain)/Loss Analysis 6/30/08 - 6/30/09

To calculate the cost requirements of the plan, assumptions are made about future events that affect the amount and timing of benefits to be paid and assets to be accumulated. Each year actual experience is compared to the expected experience based on the actuarial assumptions. This results in actuarial gains or losses, as shown below.

Α	Total (Gain)/Loss for the Year*		
^	1. Unfunded Accrued Liability (UAL) as of 6/30/08	\$	65,382,780
	2. Expected Payment on the UAL during 2008/2009	Ψ	2,825,948
	3. Interest through 6/30/09 [.0775 x (A1) - ((1.0775) $^{1/2}$ - 1) x (A2)]		4,959,703
	4. Expected UAL before all other changes [(A1) - (A2) + (A3)]		67,516,535
	5. Change due to plan changes		07,510,555
	6. Change due to assumption change		8,011,376
	7. Expected UAL after all other changes [(A4) + (A5) + (A6)]		75,527,911
	8. Actual UAL as of 6/30/09		85,285,399
	9. Total (Gain)/Loss for 2008/2009 [(A8) - (A7)]	\$	9,757,488
	9. Total (Gaill)/Loss for 2000/2009 [(A0) - (A7)]	Ą	3,737, 1 00
В	Contribution (Gain)/Loss for the Year		
	Expected Contribution (Employer and Employee)	\$	15,173,089
	2. Interest on Expected Contributions	•	576,987
	3. Actual Contributions		16,702,432
	4. Interest on Actual Contributions		635,143
	5. Expected Contributions with Interest [(B1) + (B2)]		15,750,076
	6. Actual Contributions with Interest [(B3) + (B4)]		17,337,575
	7. Contribution (Gain)/Loss [(B5) - (B6)]	\$	(1,587,499)
	71 Contribution (Cum)/2000 [(50)]	4	(1/30//133)
С	Asset (Gain)/Loss for the Year		
	 Actuarial Value of Assets as of 6/30/08 Including Receivables 	\$	392,205,533
	2. Receivables as of 6/30/08		709,799
	3. Actuarial Value of Assets as of 6/30/08		391,495,734
	4. Contributions Received		16,702,432
	5. Benefits and Refunds Paid		(20,156,081)
	6. Transfers/Misc. Adjustments		(15,581)
	7. Expected Int. $[.0775 \text{ x (C3)} + ((1.0775)^{\frac{1}{2}} - 1) \text{ x ((C4)} + (C5) + (C6)]$	26))]	30,208,995
	8. Expected Assets as of $6/30/09$ [(C3) + (C4) + (C5) + (C6) + (C7)]	418,235,499
	9. Receivables as of 6/30/09	-	801,918
	10. Expected Assets Including Receivables		419,037,417
	11. Actual Actuarial Value of Assets as of 6/30/09		411,137,205
	12. Asset (Gain)/Loss [(C10) - (C11)]	\$	7,900,212
_	11 1 11 12 12 13 14 15 11 14 14 14 14 14 14 14 14 14 14 14 14		
D	Liability (Gain)/Loss for the Year 1. Total (Gain)/Loss (A9)	¢	9,757,488
		\$	
			(1,587,499)
	3. Asset (Gain)/Loss (C12)		7,900,212
	4. Liability (Gain)/Loss [(D1) - (D2) - (D3)]	\$	3,444,775
De	evelopment of the (Gain)/Loss Balance as of 6/30/09**		
	1. (Gain)/Loss Balance as of 6/30/08	\$	69,988,273
	2. Payment Made on the Balance during 2008/2009	7	3,764,237
	3. Interest through 6/30/09 [.0775 x (1) - ((1.0775) ^{1/2} - 1) x (2)]		5,280,949
	4. Scheduled (Gain)/Loss Balance as of 6/30/09 [(1) - (2) + (3)]	\$	71,504,985
	1. Scheduled (Sdiff)/1033 Editables as of 0/30/03 [(1) - (2) + (3)]	Ψ	, 1,50 1,505

^{*} The Total (Gain)/Loss for 2008/2009 is being amortized over a fixed and declining 30-year period and is shown as "Special (Gain)/Loss" in the "Schedule of Amortization Bases" on the following page.

^{**} This (Gain)/Loss represents the 6/30/09 balance of the accumulation of (gains)/losses through 6/30/08 and is amortized using a rolling 30-year period. Gains and losses incurred after 6/30/2011 will again accumulate to this base.

Schedule of Amortization Bases

There is a two year lag between the Valuation Date and the Contribution Fiscal Year.

- The assets, liabilities and funded status of the plan are measured as of the valuation date (June 30, 2009).
- The employer contribution rate determined by the valuation is for the fiscal year beginning two years after the valuation date (fiscal year 2011/2012).

This two year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and due to the need to provide public agencies with their employer contribution rates well in advance of the start of the fiscal year.

The Unfunded Liability is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The Unfunded Liability is rolled forward each year by subtracting the expected Payment on the Unfunded Liability for a fiscal year is equal to the Expected Employer Contribution for the fiscal year minus the Expected Normal Cost for the year. The Employer Contribution Rate for the first fiscal year is determined by the actuarial valuation two years ago and the rate for the second year is from the actuarial valuation one year ago. The Normal Cost Rate for each of the two fiscal years is assumed to be the same as the rate determined by the current valuation. All expected dollar amounts are determined by multiplying the rate by the expected payroll for the applicable fiscal year, based on payroll as of the valuation date.

							Amounts for Fiscal Lorry Lorr		
									Payment as
	Date	Amorti- zation	Balance	Expected Payment	Balance	Expected Payment	Balance	Scheduled Payment for	Percent- age of
Reason for Base	Established	Period	6/30/09	2009/2010	6/30/10	2010/2011	6/30/11	2011-2012	Payroll
FS 30-YEAR AMORTIZATION	06/30/08	29	\$(4,477,463)	\$(268,876)	\$(4,545,366)	\$(272,954)	\$(4,614,298)	\$(281,825)	(0.556%)
(GAIN)/LOSS	06/30/08	30	\$71,504,985	\$3,967,054	\$72,928,712	\$4,379,440	\$74,034,710	\$4,445,857	8.777%
ASSUMPTION CHANGE	06/30/09	20	\$8,011,376	\$(662,865)	\$9,320,329	\$(684,408)	\$10,753,088	\$812,193	1.603%
SPECIAL (GAIN)/LOSS	06/30/09	30	\$9,757,489	\$0	\$10,513,694	\$0	\$11,328,506	\$680,288	1.343%
PAYMENT (GAIN)/LOSS	06/30/09	30	\$489,012	\$261,430	\$255,538	\$52,949	\$220,379	\$13,234	0.026%
TOTAL			\$85,285,399	\$3,296,743	\$88,472,907	\$3,475,027	\$91,722,385	\$5,669,747	11.193%

The special (gain)/loss base is the first of three special bases that will be established for the gain/loss that is recognized in this and the next two annual valuations. Unlike the gain/loss occurring in previous and subsequent years, the gain/loss recognized in the 2009, 2010, and 2011 annual valuations will be amortized over fixed and declining 30 year periods so that these annual gain/losses will be fully paid off in 30 years.

Amounts for Fiscal 2011/2012

Reconciliation of Required Employer Contributions

	Percentage of Projected Payroll	Estimated \$ Based on Projected Payroll
1. Contribution for $7/1/10 - 6/30/11$ (from prior year annual report)	26.513%	\$ 12,905,758
 2. Effect of changes since the prior year annual valuation a) Effect of unexpected changes in demographics and financial results b) Effect of plan changes c) Effect of changes in Assumptions d) Effect of change in payroll e) Effect of elimination of amortization base f) Effect of changes due to Fresh Start g) Net effect of the changes above [Sum of (a) through (f)] 	1.112% 0.000% 2.998% - 0.000% 0.000% 4.110%	563,090 0 1,518,667 524,695 0 0 2,606,452
3. Contribution for 7/1/11 – 6/30/12 [(1)+(2g)]	30.623%	15,512,210

The contribution actually paid (item 1) may be different if a prepayment of unfunded actuarial liability is made or a plan change became effective after the prior year's actuarial valuation was performed.

Employer Contribution Rate History

The table below provides a recent history of the employer contribution rates for your plan, as determined by the annual actuarial valuation. It does not account for prepayments or benefit changes made in the middle of the year.

Required By Valuation

Fiscal	Employer		Total Employer
Year	Normal Cost	Unfunded Rate	Contribution Rate
2007 - 2008	15.409%	8.736%	24.145%
2008 - 2009	15.495%	8.735%	24.230%
2009 - 2010	17.952%	8.416%	26.368%
2010 - 2011	18.041%	8.472%	26.513%
2011 - 2012	19.430%	11.193%	30.623%

Funding History

The Funding History below shows the recent history of the actuarial accrued liability, the market value of assets, the actuarial value of assets, funded ratios and the annual covered payroll. The Actuarial Value of Assets is used to establish funding requirements and the funded ratio on this basis represents the progress toward fully funding future benefits for current plan participants. The funded ratio based on the Market Value of Assets is an indicator of the short-term solvency of the plan.

Valuation Accrued Date Liability					Market Value of Assets (MVA)	Funded Ratio		Annual Covered Payroll
			•	issets (ATA)	ASSEES (TTA)	AVA	MVA	. uyı on
06/30/05	\$	370,553,595	\$	313,669,429	\$ 323,255,115	84.6%	87.2%	\$ 35,177,852
06/30/06		392,350,281		336,967,042	358,053,072	85.9%	91.3%	35,806,541
06/30/07		425,138,505		366,663,174	426,005,130	86.2%	100.2%	40,322,739
06/30/08		457,588,313		392,205,533	400,946,587	85.7%	87.6%	44,223,550
06/30/09		496,422,604		411,137,205	300,534,232	82.8%	60.5%	46,021,500

SUMMARY OF ASSETS

- RECONCILIATION OF THE MARKET VALUE OF ASSETS
- DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS
- ASSET ALLOCATION

Reconciliation of the Market Value of Assets

1.	Market Value of Assets as of 6/30/08 Including Receivables	\$ 400,946,587
2.	Receivables for Service Buybacks as of 6/30/08	709,799
3.	Market Value of Assets as of 6/30/08	400,236,788
4.	Employer Contributions	11,070,995
5.	Employee Contributions	5,631,437
6.	Benefit Payments to Retirees and Beneficiaries	(20,026,524)
7.	Refunds	(129,557)
8.	Lump Sum Payments	0
9.	Transfers and Miscellaneous Adjustments	(15,581)
10.	Investment Return	(97,035,244)
11.	Market Value of Assets as of 6/30/09	\$ 299,732,314
12.	Receivables for Service Buybacks as of 6/30/09	801,918
13.	Market Value of Assets as of 6/30/09 Including Receivables	\$ 300,534,232

Development of the Actuarial Value of Assets

1.	Actuarial Value of Assets as of 6/30/08 Used For Rate Setting Purposes	\$ 392,205,533
2.	Receivables for Service Buybacks as of 6/30/08	709,799
3.	Actuarial Value of Assets as of 6/30/08	391,495,734
4.	Employer Contributions	11,070,995
5.	Employee Contributions	5,631,437
6.	Benefit Payments to Retirees and Beneficiaries	(20,026,524)
7.	Refunds	(129,557)
8.	Lump Sum Payments	0
9.	Transfers and Miscellaneous Adjustments	(15,581)
10.	Expected Investment Income at 7.75%	30,208,995
11.	Expected Actuarial Value of Assets	\$ 418,235,499
12.	Market Value of Assets as of 6/30/09	\$ 299,732,314
13.	Preliminary Actuarial Value of Assets [(11) + ((12) – (11)) / 15]	410,335,287
14.	Maximum Actuarial Value of Assets (140% of (12))	419,625,240
15.	Minimum Actuarial Value of Assets (60% of (12))	179,839,388
16.	Actuarial Value of Assets {Lesser of [(14), Greater of ((13), (15))]}	410,335,287
17.	Actuarial Value to Market Value Ratio	136.8%
18.	Receivables for Service Buybacks as of 6/30/09	801,918
19.	Actuarial Value of Assets as of 6/30/09 Used for Rate Setting Purposes	\$ 411,137,205

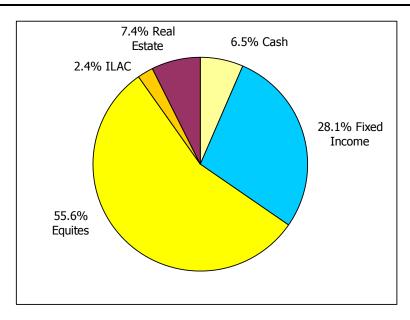
Asset Allocation

The starting point and most important element of CalPERS' successful return on investment is the asset allocation or diversification among stocks, bonds, cash and other investments. Asset allocation is not an asset-only or liability-only decision. All factors, including liabilities, benefit payments, operating expenses, and employer and member contributions are taken into account in determining the appropriate asset allocation mix. The goal is to maximize returns at a prudent level of risk which presents an ever-changing balancing act between market volatility and long-term goals.

CalPERS follows a strategic asset allocation policy that identifies the percentage of funds to be invested in each asset class.

The asset allocation and market value of assets shown below reflect the values of the Public Employees Retirement Fund (PERF) in its entirety as of June 30, 2009. The assets for CITY OF ANAHEIM SAFETY POLICE PLAN are part of the Public Employees Retirement Fund (PERF) and are invested accordingly.

(A) Asset Class	(B) Market Value (\$ Billion)	(C) Current Allocation	(D) Target ¹
1) Total Cash Equivalents	12.0	6.5%	0.0%
2) Total Global Fixed Income	51.6	28.1%	19.0%
3) Total Equities	102.0	55.6%	66.0%
4) Inflation Linked (ILAC)	4.4	2.4%	5.0%
5) Total Real Estate Total Fund	13.5 183.5 ²	<u>7.4%</u> 100.0%	<u>10.0%</u> 100.0%



¹ Target allocation effective January 1, 2009.

² Differences between investment values above and the values on the Summary of Investments on page 26 of the Comprehensive Annual Financial Report (Year Ended June 30, 2009) are due to differences in reporting methods. The Summary of Investments includes Net Investment Receivables/Payables.

SUMMARY OF PARTICIPANT DATA

- SUMMARY OF VALUATION DATA
- ACTIVE MEMBERS
- TRANSFERRED AND TERMINATED MEMBERS
- RETIRED MEMBERS AND BENEFICIARIES

Summary of Valuation Data

	June 30, 2008	June 30, 2009
1. Active Members		
a) Counts	425	421
b) Average Attained Age	39.56	39.93
c) Average Entry Age to Rate Plan	27.39	27.45
d) Average Years of Service	12.17	12.48
e) Average Annual Covered Pay	\$ 104,055	\$ 109,315
f) Annual Covered Payroll	44,223,550	46,021,500
g) Projected Annual Payroll for Contribution Year	48,676,998	50,656,007
h) Present Value of Future Payroll	391,290,571	395,987,668
2. Transferred Members		
a) Counts	41	37
b) Average Attained Age	42.16	41.89
c) Average Years of Service	3.93	3.94
d) Average Annual Covered Pay	\$ 83,482	\$ 86,631
3. Terminated Members		
a) Counts	30	34
b) Average Attained Age	43.44	43.24
c) Average Years of Service	5.46	5.10
d) Average Annual Covered Pay	\$ 66,075	\$ 68,065
4. Retired Members and Beneficiaries		
a) Counts	417	426
b) Average Attained Age	64.45	64.80
c) Average Annual Benefits	\$ 46,878	\$ 49,473
5. Active to Retired Ratio	1.02	0.99

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.

Active Members

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 Active Members by Age and Service

Years of Service at Valuation Date

A							
Attained Age	0-4	5-9	10-14	15-19	20-25	25+	Total
15-24	9	0	0	0	0	0	9
25-29	35	6	0	0	0	0	41
30-34	28	31	10	0	0	0	69
35-39	21	23	43	14	0	0	101
40-44	5	11	28	33	6	0	83
45-49	0	4	13	19	18	6	60
50-54	1	1	5	7	13	19	46
55-59	0	0	1	1	0	9	11
60-64	0	1	0	0	0	0	1
65 and over	0	0	0	0	0	0	0
All Ages	99	77	100	74	37	34	421

Distribution of Average Annual Salaries by Age and Service

Years of Service at Valuation Date

Attained							
Age	0-4	5-9	10-14	15-19	20-25	25+	Average
15-24	\$64,841	\$0	\$0	\$0	\$0	\$0	\$64,841
25-29	88,778	99,083	0	0	0	0	90,286
30-34	98,490	104,796	110,847	0	0	0	103,114
35-39	97,156	105,846	108,085	116,730	0	0	106,501
40-44	108,473	109,258	112,208	115,933	124,742	0	113,979
45-49	0	114,430	112,457	119,943	121,216	121,388	118,480
50-54	102,795	75,768	97,777	109,798	123,830	139,651	123,895
55-59	0	0	80,978	111,423	0	130,079	123,919
60-64	0	233,360	0	0	0	0	233,360
65 and over	0	0	0	0	0	0	0
All Ages	\$92,262	\$107,095	\$109,298	\$116,472	\$122,706	\$133,894	\$109,315

Transferred and Terminated Members

Distribution of Transfers to Other CalPERS Plans by Age and Service

Years of Service at Valuation Date

rears of Service at Valuation Date								
Attained	0.4	F 0	10.14	15 10	20.25	25.	Takal	Average
Age	0-4	5-9	10-14	15-19	20-25	25+	Total	Salary
15-24	0	0	0	0	0	0	0	\$0
25-29	4	1	0	0	0	0	5	80,759
30-34	4	0	0	0	0	0	4	84,280
35-39	9	0	0	0	0	0	9	87,553
40-44	3	2	1	0	0	0	6	94,233
45-49	6	0	1	0	0	0	7	81,160
50-54	1	1	0	0	0	0	2	99,810
55-59	0	0	1	0	1	0	2	95,897
60-64	1	0	0	0	0	0	1	109,110
65 and over	0	0	1	0	0	0	1	42,399
All Ages	28	4	4	0	1	0	37	86,631

Distribution of Terminated Participants with Funds on Deposit by Age and Service

Years of Service at Valuation Date

Attained Age	0-4	5-9	10-14	15-19	20-25	25+	Total	Average Salary
15-24	1	0	0	0	0	0	1	\$67,117
25-29	2	0	0	0	0	0	2	59,502
30-34	3	0	0	0	0	0	3	63,219
35-39	3	1	0	0	0	0	4	51,613
40-44	5	4	2	0	0	0	11	75,544
45-49	2	3	2	1	0	0	8	63,457
50-54	0	2	0	0	0	0	2	74,913
55-59	0	1	0	0	0	0	1	64,115
60-64	0	0	0	0	0	0	0	0
65 and over	2	0	0	0	0	0	2	89,708
All Ages	18	11	4	1	0	0	34	68,065

Retired Members and Beneficiaries

Distribution of Retirees and Beneficiaries by Age and Retirement Type*

Attained	Service	Non- Industrial	Industrial	Non- Industrial	Industrial	Death After	
Age	Retirement	Disability	Disability	Death	Death	Retirement	Total
Under 30	0	0	0	0	0	0	0
30-34	0	0	0	0	0	0	0
35-39	0	0	0	0	0	0	0
40-44	0	0	0	0	0	0	0
45-49	0	0	2	0	1	2	5
50-54	38	0	5	0	0	1	44
55-59	85	0	8	0	1	2	96
60-64	65	1	13	1	0	5	85
65-69	52	1	15	2	0	13	83
70-74	31	1	12	0	0	10	54
75-79	17	1	11	1	0	4	34
80-84	10	0	3	0	0	7	20
85 and Over	2	0	1	0	0	1	4
All Ages	300	4	70	4	2	45	425

Distribution of Average Annual Amounts for Retirees and Beneficiaries by Age and Retirement Type*

Attained Age	Service Retirement	Non- Industrial Disability	Industrial Disability	Non- Industrial Death	Industrial Death	Death After Retirement	Average
Under 30	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30-34	0	0	0	0	0	0	0
35-39	0	0	0	0	0	0	0
40-44	0	0	0	0	0	0	0
45-49	0	0	21,577	0	59,708	9,445	24,350
50-54	79,865	0	43,637	0	0	3,059	74,003
55-59	67,432	0	29,779	0	31,790	34,580	63,238
60-64	57,052	18,930	22,557	78,981	0	29,755	49,980
65-69	46,965	7,387	35,243	33,813	0	37,499	4 2,570
70-74	46,096	16,570	34,957	0	0	18,975	38,052
75-79	38,974	19,656	25,275	21,864	0	20,711	31,322
80-84	33,554	0	29,647	0	0	19,783	28,148
85 and Over	47,358	0	30,718	0	0	14,581	35,004
All Ages	\$58,130	\$15,636	\$30,552	\$42,118	\$45,749	\$25,623	\$49,537

Retired Members and Beneficiaries (continued)

Distribution of Retirees and Beneficiaries by Years Retired and Retirement Type*

Years Retired	Service Retirement	Non- Industrial Disability	Industrial Disability	Non- Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	85	0	6	0	0	20	111
5-9	101	0	5	0	0	10	116
10-14	53	1	4	1	0	7	66
15-19	30	0	5	2	0	1	38
20-24	16	0	7	1	2	1	27
25-29	12	2	12	0	0	2	28
30 and Over	3	1	31	0	0	4	39
All Years	300	4	70	4	2	45	425

Distribution of Average Annual Amounts for Retirees and Beneficiaries by Years Retired and Retirement Type*

		Non-		Non-		Death	
Years	Service	Industrial	Industrial	Industrial	Industrial	After	
Retired	Retirement	Disability	Disability	Death	Death	Retirement	Average
Under 5 Yrs	\$66,212	\$0	\$32,262	\$0	\$0	\$31,698	\$58,158
5-9	66,741	0	55,915	0	0	26,555	62,810
10-14	47,798	18,930	36,229	78,981	0	19,434	44,124
15-19	46,073	0	36,843	33,813	0	12,978	43,342
20-24	44,444	0	35,865	21,864	45,749	7,106	40,097
25-29	27,682	11,979	24,803	0	0	17,227	24,580
30 and Over	37,092	19,656	25,408	0	0	15,740	25,168
All Years	\$58,130	\$15,636	\$30,552	\$42,118	\$45,749	\$25,623	\$49,537

^{*} Counts of members do not include alternate payees receiving benefits while the member is still working. Therefore, the total counts may not match information on page 23 of the report. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

APPENDICES

- APPENDIX A STATEMENT OF ACTUARIAL DATA, METHODS AND ASSUMPTIONS
- APPENDIX B SUMMARY OF PRINCIPAL PLAN PROVISIONS
- APPENDIX C GASB STATEMENT NO. 27
- APPENDIX D INVESTMENT RETURN SENSITIVITY ANALYSIS
- APPENDIX E GLOSSARY OF ACTUARIAL TERMS

APPENDIX A

• STATEMENT OF ACTUARIAL DATA, METHODS AND ASSUMPTIONS

Actuarial Data

As stated in the Actuarial Certification, the data which serves as the basis of this valuation has been obtained from the various CalPERS databases. We have reviewed the valuation data and believe that it is reasonable and appropriate in aggregate. We are unaware of any potential data issues that would have a material effect on the results of this valuation, except that data does not always contain the latest salary information for former members now in reciprocal systems and does not recognize the potential for unusually large salary deviation in certain cases such as elected officials. Therefore, salary information in these cases may not be accurate. These situations are relatively infrequent, however, and when they do occur, they generally do not have a material impact on the employer contribution rates.

Actuarial Methods

Funding Method

The actuarial funding method used for the Retirement Program is the 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 payrolls. 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. All gains or losses are tracked and amortized over a rolling 30-year period with the exception of special gains and losses in fiscal years 2008-2009, 2009-2010 and 2010-2011. Each of these years special gains or losses will be isolated and amortized over fixed and declining 30 year periods (as opposed to the current rolling 30 year amortization). 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.

In addition, in February 2010 the CalPERS Board adopted a resolution requiring additional contributions for any plan or pool if their cash flows hamper 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, 2043; or
- Reach a level of 75% funded by June 30, 2043

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 result in the satisfaction of the above criteria. CalPERS actuaries will reassess the criteria above when performing each future valuation to determine whether or not additional contributions are necessary.

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 unfunded actuarial liability is projected and amortized over a set number of years. As mentioned above, if the annual contribution on the total unfunded liability was less than the amount produced by a 30-year amortization of the unfunded liability, the plan actuary would implement a 30-year fresh start. However, in the case of a 30-year fresh start, just the unfunded liability not already in the (gain)/loss base (which already is amortized over 30 years) will go into the new fresh start base. In addition, a fresh start is needed in the following situations:

- 1) when a positive payment would be required on a negative unfunded actuarial liability (or conversely a negative payment on a positive unfunded actuarial liability); or
- 2) when there are excess assets, rather than an unfunded liability. In this situation a 30-year fresh start is used, unless a longer fresh start is needed to avoid a negative total rate.

It should be noted that the actuary may choose to use a fresh start under other circumstances. In all cases, the fresh start period is set by the actuary at what he deems appropriate, and will not be less than five years nor greater than 30 years.

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 is 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 is then 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. However in no case will the Actuarial Value of Assets be less than 80% or greater than 120% of the actual Market Value of Assets.

In June 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:

- Increase the corridor limits for the actuarial value of assets from 80%-120% of market value to 60%-140% of market value on June 30, 2009
- Reduce the corridor limits for the actuarial value of assets to 70%-130% of market value on June 30, 2010
- Return to the 80%-120% of market value corridor limits for the actuarial value of assets on June 30, 2011 and thereafter

Miscellaneous

Superfunded Status

If a rate plan is superfunded (actuarial value of assets exceeds the present value of benefits), as of the most recently completed annual valuation, the employer may cover their employees' member contributions (both taxed and tax-deferred) using their employer assets during the fiscal year for which this valuation applies. This would entail transferring assets within the Public Employees' Retirement Fund (PERF) from the employer account to the member accumulated contribution accounts. This change was implemented effective January 1, 1999 pursuant to Chapter 231 (Assembly Bill 2099) which added Government Code Section 20816.

Superfunded status applies only to individual plans, not risk pools. For rate plans within a risk pool, actuarial value of assets is the sum of the rate plan's side fund plus the rate plan's pro-rata share of non-side fund assets.

Internal Revenue Code Section 415

The limitations on benefits imposed by Internal Revenue Code Section 415 were not taken into account in this valuation. The effect of these limitations has been deemed immaterial on the overall results.

Internal Revenue Code Section 401(a)(17)

The limitations on compensation imposed by Internal Revenue Code Section 401(a)(17) were taken into account in this valuation. Each year the impact of any changes in this compensation limitation since the prior valuation is included and amortized as part of the actuarial gain or loss base.

30

Actuarial Assumptions

Economic Assumptions

Investment Return

7.75% compounded annually (net of expenses). This assumption is used for all plans.

Salary Growth

Annual increases vary by category, entry age, and duration of service. The assumed increases are shown below.

Public Agency Miscellaneous						
Duration of Service	Entry Age 20	Entry Age 30	Entry Age 40			
0	0.1445	0.1265	0.1005			
1	0.1215	0.1075	0.0875			
2	0.1035	0.0935	0.0775			
3	0.0905	0.0825	0.0695			
4	0.0805	0.0735	0.0635			
5	0.0725	0.0675	0.0585			
10	0.0505	0.0485	0.0435			
15	0.0455	0.0435	0.0385			
20	0.0415	0.0395	0.0355			
25	0.0385	0.0385	0.0355			

0.0385

0.0355

0.0385

Public Agency Fire						
Duration of Service	Entry Age 20	Entry Age 30	Entry Age 40			
0	0.1075	0.1075	0.1045			
1	0.0975	0.0965	0.0875			
2	0.0895	0.0855	0.0725			
3	0.0825	0.0775	0.0625			
4	0.0765	0.0705	0.0535			
5	0.0715	0.0645	0.0475			
10	0.0535	0.0485	0.0375			
15	0.0435	0.0415	0.0365			
20	0.0395	0.0385	0.0355			
25	0.0375	0.0375	0.0355			
30	0.0375	0.0375	0.0355			

Public Agency Police						
Duration of Service	Entry Age 20	Entry Age 30	Entry Age 40			
0	0.1115	0.1115	0.1115			
1	0.0955	0.0955	0.0955			
2	0.0835	0.0835	0.0805			
3	0.0745	0.0725	0.0665			
4	0.0675	0.0635	0.0575			
5	0.0615	0.0575	0.0505			
10	0.0475	0.0445	0.0365			
15	0.0435	0.0415	0.0355			
20	0.0395	0.0385	0.0355			
25	0.0375	0.0365	0.0355			
30	0.0375	0.0365	0.0355			

Public Agency County Peace Officers						
Duration of Service	Entry Age 20	Entry Age 30	Entry Age 40			
0	0.1315	0.1315	0.1315			
1	0.1115	0.1085	0.1055			
2	0.0965	0.0915	0.0865			
3	0.0845	0.0795	0.0735			
4	0.0755	0.0695	0.0635			
5	0.0685	0.0625	0.0555			
10	0.0485	0.0445	0.0405			
15	0.0435	0.0405	0.0385			
20	0.0395	0.0385	0.0365			
25	0.0375	0.0365	0.0355			
30	0.0375	0.0365	0.0355			

- The Miscellaneous salary scale is used for Local Prosecutors.
- The Police salary scale is used for Other Safety, Local Sheriff, and School Police.

Overall Payroll Growth

3.25% compounded annually (used in projecting the payroll over which the unfunded liability is amortized). This assumption is used for all plans.

Inflation

3.00% compounded annually. This assumption is used for all plans.

Non-valued Potential Additional Liabilities

The potential liability loss for a cost-of-living increase exceeding the 3% inflation assumption, and any potential liability loss from future member service purchases are not reflected in the valuation.

Miscellaneous Loading Factors

Credit for Unused Sick Leave

Final Average Salary is increased by 1% for those plans with the provision providing Credit for Unused Sick Leave.

Conversion of Employer Paid Member Contributions (EPMC)

Final Average Salary is increased by the Employee Contribution Rate for those plans with the provision providing for the Conversion of Employer Paid Member Contributions (EPMC) during the final compensation period.

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" 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. No loading is necessary for employees hired after July 1, 1982.

Demographic Assumptions

Pre-Retirement Mortality

Non-Industrial Death Rates vary by age and gender. Industrial Death rates vary by age. See sample rates in table below. The non-industrial death rates are used for all plans. The industrial death rates are used for Safety Plans (except for Local Prosecutor safety members where the corresponding Miscellaneous Plan does not have the Industrial Death Benefit).

	Non-Industrial Death (Not Job-Related)		Industrial Death (Job-Related)
Age	Male	Female	Male and Female
20	0.00047	0.00016	0.00003
25	0.00050	0.00026	0.00007
30	0.00053	0.00036	0.00010
35	0.00067	0.00046	0.00012
40	0.00087	0.00065	0.00013
45	0.00120	0.00093	0.00014
50	0.00176	0.00126	0.00015
55	0.00260	0.00176	0.00016
60	0.00395	0.00266	0.00017
65	0.00608	0.00419	0.00018
70	0.00914	0.00649	0.00019
75	0.01220	0.00878	0.00020
80	0.01527	0.01108	0.00021

Miscellaneous Plans usually have Industrial Death rates set to zero unless the agency has specifically contracted for Industrial Death benefits. If so, each Non-Industrial Death rate shown above will be split into two components: 99% will become the Non-Industrial Death rate and 1% will become the Industrial Death rate.

Post-Retirement Mortality

Rates vary by age, type of retirement and gender. See sample rates in table below. These rates are used for all plans.

	Healthy R	Recipients	Non-Industrially Disabled (Not Job-Related)		Industriall (Job-R	•
Age	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
105	0.58527	0.56093	0.67923	0.61523	0.64127	0.60135
110	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

Marital Status

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

Member Category	Percent Married
Miscellaneous Member	85%
Local Police	90%
Local Fire	90%
Other Local Safety	90%
School Police	90%

Age of Spouse

It is assumed that female spouses are 3 years younger than male spouses. This assumption is used for all plans.

Terminated Members

It is assumed that terminated members refund immediately if non-vested. Terminated members who are vested are assumed to follow the same service retirement pattern as 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)

Termination with Refund

Rates vary by entry age and service for Miscellaneous Plans. Rates vary by service for Safety Plans. See sample rates in tables below.

Public Agency Miscellaneous

			, 19 cm c , 110 cc.	14116645		
Duration of						
Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40	Entry Age 45
0	0.1742	0.1674	0.1606	0.1537	0.1468	0.1400
1	0.1545	0.1477	0.1409	0.1339	0.1271	0.1203
2	0.1348	0.1280	0.1212	0.1142	0.1074	0.1006
3	0.1151	0.1083	0.1015	0.0945	0.0877	0.0809
4	0.0954	0.0886	0.0818	0.0748	0.0680	0.0612
5	0.0212	0.0193	0.0174	0.0155	0.0136	0.0116
10	0.0138	0.0121	0.0104	0.0088	0.0071	0.0055
15	0.0060	0.0051	0.0042	0.0032	0.0023	0.0014
20	0.0037	0.0029	0.0021	0.0013	0.0005	0.0001
25	0.0017	0.0011	0.0005	0.0001	0.0001	0.0001
30	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001
35	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Public Agency Safety					
Duration of Service	Fire	Police	County Peace Officer		
0	0.0710	0.1013	0.0997		
1	0.0554	0.0636	0.0782		
2	0.0398	0.0271	0.0566		
3	0.0242	0.0258	0.0437		
4	0.0218	0.0245	0.0414		
5	0.0029	0.0086	0.0145		
10	0.0009	0.0053	0.0089		
15	0.0006	0.0027	0.0045		
20	0.0005	0.0017	0.0020		
25	0.0003	0.0012	0.0009		
30	0.0003	0.0009	0.0006		
35	0.0003	0.0009	0.0006		

The Police Termination and Refund rates are used for Public Agency Local Prosecutors, Other Safety, Local Sheriff, and School Police.

Termination with Vested Benefits

Rates vary by entry age and service for Miscellaneous Plans. Rates vary by service for Safety Plans. See sample rates in tables below.

Public Agency Miscellaneous						
Duration of Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40	
5	0.0656	0.0597	0.0537	0.0477	0.0418	
10	0.0530	0.0466	0.0403	0.0339	0.0000	
15	0.0443	0.0373	0.0305	0.0000	0.0000	
20	0.0333	0.0261	0.0000	0.0000	0.0000	
25	0.0212	0.0000	0.0000	0.0000	0.0000	
30	0.0000	0.0000	0.0000	0.0000	0.0000	
35	0.0000	0.0000	0.0000	0.0000	0.0000	

Public Agency Safety									
Duration of Service	Fire	Police	County Peace Officer						
5	0.0162	0.0163	0.0265						
10	0.0061	0.0126	0.0204						
15	0.0058	0.0082	0.0130						
20	0.0053	0.0065	0.0074						
25	0.0047	0.0058	0.0043						
30	0.0045	0.0056	0.0030						
35	0.0000	0.0000	0.0000						

- When a member is eligible to retire, the termination with vested benefits probability is set to zero.
- After termination with vested benefits, a miscellaneous member is assumed to retire at age 59 and a safety member at age 54.
- The Police Termination with vested benefits rates are used for Public Agency Local Prosecutors, Other Safety, Local Sheriff, and School Police.

Non-Industrial (Not Job-Related) Disability

Rates vary by age and gender for Miscellaneous Plans.

Rates vary by age and category for Safety Plans.

	Miscell	aneous	Fire	Police	County Peace Officer
Age	Male	Female	Male and Female	Male and Female	Male and Female
20	0.0001	0.0001	0.0001	0.0001	0.0001
25	0.0001	0.0001	0.0001	0.0001	0.0001
30	0.0002	0.0002	0.0001	0.0002	0.0001
35	0.0006	0.0009	0.0001	0.0003	0.0004
40	0.0015	0.0016	0.0001	0.0004	0.0007
45	0.0025	0.0024	0.0002	0.0005	0.0013
50	0.0033	0.0031	0.0005	0.0008	0.0018
55	0.0037	0.0031	0.0010	0.0013	0.0010
60	0.0038	0.0025	0.0015	0.0020	0.0006

- The Miscellaneous Non-Industrial Disability rates are used for Local Prosecutors.
- The Police Non-Industrial Disability rates are used for Other Safety, Local Sheriff, and School Police.

Industrial (Job-Related) Disability

Rates vary by age and category.

Age	Fire	Police	County Peace Officer
20	0.0002	0.0007	0.0003
25	0.0012	0.0032	0.0015
30	0.0025	0.0064	0.0031
35	0.0037	0.0097	0.0046
40	0.0049	0.0129	0.0063
45	0.0061	0.0161	0.0078
50	0.0074	0.0192	0.0101
55	0.0721	0.0668	0.0173
60	0.0721	0.0668	0.0173

- The Police Industrial Disability rates are used for Local Sheriff and Other Safety.
- Fifty Percent of the Police Industrial Disability rates are used for School Police.
- One Percent of the Police Industrial Disability rates are used for Local Prosecutors.
- Normally, rates are zero for Miscellaneous Plans unless the agency has specifically contracted for Industrial Disability benefits. If so, each miscellaneous non-industrial disability rate will be split into two components: 50% will become the Non-Industrial Disability rate and 50% will become the Industrial Disability rate.

Service Retirement

Public Agency Miscellaneous 2% @ 60

	Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years		
50	0.011	0.015	0.018	0.021	0.023	0.026		
51	0.009	0.013	0.016	0.018	0.020	0.023		
52	0.013	0.018	0.022	0.025	0.028	0.031		
53	0.011	0.016	0.019	0.022	0.025	0.028		
54	0.015	0.021	0.025	0.028	0.032	0.036		
55	0.023	0.032	0.039	0.044	0.049	0.055		
56	0.019	0.027	0.032	0.037	0.041	0.046		
57	0.025	0.035	0.042	0.048	0.054	0.060		
58	0.030	0.042	0.051	0.058	0.065	0.073		
59	0.035	0.049	0.060	0.068	0.076	0.085		
60	0.062	0.087	0.105	0.119	0.133	0.149		
61	0.079	0.110	0.134	0.152	0.169	0.190		
62	0.132	0.186	0.225	0.255	0.284	0.319		
63	0.126	0.178	0.216	0.244	0.272	0.305		
64	0.122	0.171	0.207	0.234	0.262	0.293		
65	0.173	0.243	0.296	0.334	0.373	0.418		
66	0.114	0.160	0.194	0.219	0.245	0.274		
67	0.159	0.223	0.271	0.307	0.342	0.384		
68	0.113	0.159	0.193	0.218	0.243	0.273		
69	0.114	0.161	0.195	0.220	0.246	0.276		
70	0.127	0.178	0.216	0.244	0.273	0.306		

Public Agency Miscellaneous 2% @ 55

	Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years		
50	0.015	0.020	0.024	0.029	0.033	0.039		
51	0.013	0.016	0.020	0.024	0.027	0.033		
52	0.014	0.018	0.022	0.027	0.030	0.036		
53	0.017	0.022	0.027	0.032	0.037	0.043		
54	0.027	0.034	0.041	0.049	0.056	0.067		
55	0.050	0.064	0.078	0.094	0.107	0.127		
56	0.045	0.057	0.069	0.083	0.095	0.113		
57	0.048	0.061	0.074	0.090	0.102	0.122		
58	0.052	0.066	0.080	0.097	0.110	0.131		
59	0.060	0.076	0.092	0.111	0.127	0.151		
60	0.072	0.092	0.112	0.134	0.153	0.182		
61	0.089	0.113	0.137	0.165	0.188	0.224		
62	0.128	0.162	0.197	0.237	0.270	0.322		
63	0.129	0.164	0.199	0.239	0.273	0.325		
64	0.116	0.148	0.180	0.216	0.247	0.294		
65	0.174	0.221	0.269	0.323	0.369	0.439		
66	0.135	0.171	0.208	0.250	0.285	0.340		
67	0.133	0.169	0.206	0.247	0.282	0.336		
68	0.118	0.150	0.182	0.219	0.250	0.297		
69	0.116	0.147	0.179	0.215	0.246	0.293		
70	0.138	0.176	0.214	0.257	0.293	0.349		

Public Agency Miscellaneous 2.5% @ 55

	Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years		
50	0.026	0.033	0.040	0.048	0.055	0.062		
51	0.021	0.026	0.032	0.038	0.043	0.049		
52	0.021	0.026	0.032	0.038	0.043	0.049		
53	0.026	0.033	0.040	0.048	0.055	0.062		
54	0.043	0.054	0.066	0.078	0.089	0.101		
55	0.088	0.112	0.136	0.160	0.184	0.208		
56	0.055	0.070	0.085	0.100	0.115	0.130		
57	0.061	0.077	0.094	0.110	0.127	0.143		
58	0.072	0.091	0.111	0.130	0.150	0.169		
59	0.083	0.105	0.128	0.150	0.173	0.195		
60	0.088	0.112	0.136	0.160	0.184	0.208		
61	0.083	0.105	0.128	0.150	0.173	0.195		
62	0.121	0.154	0.187	0.220	0.253	0.286		
63	0.105	0.133	0.162	0.190	0.219	0.247		
64	0.105	0.133	0.162	0.190	0.219	0.247		
65	0.143	0.182	0.221	0.260	0.299	0.338		
66	0.105	0.133	0.162	0.190	0.219	0.247		
67	0.105	0.133	0.162	0.190	0.219	0.247		
68	0.105	0.133	0.162	0.190	0.219	0.247		
69	0.105	0.133	0.162	0.190	0.219	0.247		
70	0.125	0.160	0.194	0.228	0.262	0.296		

Public Agency Miscellaneous 2.7% @ 55

	Duration of Service						
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years	
50	0.028	0.035	0.043	0.050	0.058	0.065	
51	0.022	0.028	0.034	0.040	0.046	0.052	
52	0.022	0.028	0.034	0.040	0.046	0.052	
53	0.028	0.035	0.043	0.050	0.058	0.065	
54	0.044	0.056	0.068	0.080	0.092	0.104	
55	0.091	0.116	0.140	0.165	0.190	0.215	
56	0.061	0.077	0.094	0.110	0.127	0.143	
57	0.063	0.081	0.098	0.115	0.132	0.150	
58	0.074	0.095	0.115	0.135	0.155	0.176	
59	0.083	0.105	0.128	0.150	0.173	0.195	
60	0.088	0.112	0.136	0.160	0.184	0.208	
61	0.085	0.109	0.132	0.155	0.178	0.202	
62	0.124	0.158	0.191	0.225	0.259	0.293	
63	0.107	0.137	0.166	0.195	0.224	0.254	
64	0.107	0.137	0.166	0.195	0.224	0.254	
65	0.146	0.186	0.225	0.265	0.305	0.345	
66	0.107	0.137	0.166	0.195	0.224	0.254	
67	0.107	0.137	0.166	0.195	0.224	0.254	
68	0.107	0.137	0.166	0.195	0.224	0.254	
69	0.107	0.137	0.166	0.195	0.224	0.254	
70	0.129	0.164	0.199	0.234	0.269	0.304	

Public Agency Miscellaneous 3% @ 60

	Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years		
50	0.026	0.033	0.040	0.048	0.055	0.062		
51	0.021	0.026	0.032	0.038	0.043	0.049		
52	0.019	0.025	0.030	0.035	0.040	0.046		
53	0.025	0.032	0.038	0.045	0.052	0.059		
54	0.039	0.049	0.060	0.070	0.081	0.091		
55	0.083	0.105	0.128	0.150	0.173	0.195		
56	0.055	0.070	0.085	0.100	0.115	0.130		
57	0.061	0.077	0.094	0.110	0.127	0.143		
58	0.072	0.091	0.111	0.130	0.150	0.169		
59	0.080	0.102	0.123	0.145	0.167	0.189		
60	0.094	0.119	0.145	0.170	0.196	0.221		
61	0.088	0.112	0.136	0.160	0.184	0.208		
62	0.127	0.161	0.196	0.230	0.265	0.299		
63	0.110	0.140	0.170	0.200	0.230	0.260		
64	0.110	0.140	0.170	0.200	0.230	0.260		
65	0.149	0.189	0.230	0.270	0.311	0.351		
66	0.110	0.140	0.170	0.200	0.230	0.260		
67	0.110	0.140	0.170	0.200	0.230	0.260		
68	0.110	0.140	0.170	0.200	0.230	0.260		
69	0.110	0.140	0.170	0.200	0.230	0.260		
70	0.132	0.168	0.204	0.240	0.276	0.312		

Public Agency Fire 1/2 @ 55 and 2% @ 55

<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
50	0.01588	56	0.11079
51	0.00000	57	0.00000
52	0.03442	58	0.09499
53	0.01990	59	0.04409
5 4	0.04132	60	1.00000
55	0.07513		

Public Agency Police 1/2 @ 55 and 2% @ 55

<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
50	0.02552	56	0.06921
51	0.00000	57	0.05113
52	0.01637	58	0.07241
53	0.02717	59	0.07043
54	0.00949	60	1.00000
55	0.16674		

Public Agency Police 2%@ 50

	Duration of Service								
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years			
50	0.014	0.014	0.014	0.014	0.025	0.045			
51	0.012	0.012	0.012	0.012	0.023	0.040			
52	0.026	0.026	0.026	0.026	0.048	0.086			
53	0.052	0.052	0.052	0.052	0.096	0.171			
54	0.070	0.070	0.070	0.070	0.128	0.227			
55	0.090	0.090	0.090	0.090	0.165	0.293			
56	0.064	0.064	0.064	0.064	0.117	0.208			
57	0.071	0.071	0.071	0.071	0.130	0.232			
58	0.063	0.063	0.063	0.063	0.115	0.205			
59	0.140	0.140	0.140	0.140	0.174	0.254			
60	0.140	0.140	0.140	0.140	0.172	0.251			
61	0.140	0.140	0.140	0.140	0.172	0.251			
62	0.140	0.140	0.140	0.140	0.172	0.251			
63	0.140	0.140	0.140	0.140	0.172	0.251			
64	0.140	0.140	0.140	0.140	0.172	0.251			
65	1.000	1.000	1.000	1.000	1.000	1.000			

• These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Public Agency Fire 2%@50

		•	<u> </u>					
	Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years		
50	0.007	0.007	0.007	0.007	0.010	0.015		
51	0.008	0.008	0.008	0.008	0.013	0.019		
52	0.017	0.017	0.017	0.017	0.027	0.040		
53	0.047	0.047	0.047	0.047	0.072	0.107		
54	0.064	0.064	0.064	0.064	0.098	0.147		
55	0.087	0.087	0.087	0.087	0.134	0.200		
56	0.078	0.078	0.078	0.078	0.120	0.180		
57	0.090	0.090	0.090	0.090	0.139	0.208		
58	0.079	0.079	0.079	0.079	0.122	0.182		
59	0.073	0.073	0.073	0.073	0.112	0.168		
60	0.114	0.114	0.114	0.114	0.175	0.262		
61	0.114	0.114	0.114	0.114	0.175	0.262		
62	0.114	0.114	0.114	0.114	0.175	0.262		
63	0.114	0.114	0.114	0.114	0.175	0.262		
64	0.114	0.114	0.114	0.114	0.175	0.262		
65	1.000	1.000	1.000	1.000	1.000	1.000		

Public Agency Police 3%@ 55

	Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years		
50	0.019	0.019	0.019	0.019	0.040	0.060		
51	0.024	0.024	0.024	0.024	0.049	0.074		
52	0.024	0.024	0.024	0.024	0.051	0.077		
53	0.059	0.059	0.059	0.059	0.121	0.183		
54	0.069	0.069	0.069	0.069	0.142	0.215		
55	0.116	0.116	0.116	0.116	0.240	0.363		
56	0.076	0.076	0.076	0.076	0.156	0.236		
57	0.058	0.058	0.058	0.058	0.120	0.181		
58	0.076	0.076	0.076	0.076	0.157	0.237		
59	0.094	0.094	0.094	0.094	0.193	0.292		
60	0.141	0.141	0.141	0.141	0.290	0.438		
61	0.094	0.094	0.094	0.094	0.193	0.292		
62	0.118	0.118	0.118	0.118	0.241	0.365		
63	0.094	0.094	0.094	0.094	0.193	0.292		
64	0.094	0.094	0.094	0.094	0.193	0.292		
65	1.000	1.000	1.000	1.000	1.000	1.000		

• These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Public Agency Fire 3%@55

		i abiic Aş	jency inc i	3 70@33		
			Duration o	of Service		
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.012	0.012	0.012	0.018	0.028	0.033
51	0.008	0.008	0.008	0.012	0.019	0.022
52	0.018	0.018	0.018	0.027	0.042	0.050
53	0.043	0.043	0.043	0.062	0.098	0.114
54	0.057	0.057	0.057	0.083	0.131	0.152
55	0.092	0.092	0.092	0.134	0.211	0.246
56	0.081	0.081	0.081	0.118	0.187	0.218
57	0.100	0.100	0.100	0.146	0.230	0.268
58	0.081	0.081	0.081	0.119	0.187	0.219
59	0.078	0.078	0.078	0.113	0.178	0.208
60	0.117	0.117	0.117	0.170	0.267	0.312
61	0.078	0.078	0.078	0.113	0.178	0.208
62	0.098	0.098	0.098	0.141	0.223	0.260
63	0.078	0.078	0.078	0.113	0.178	0.208
64	0.078	0.078	0.078	0.113	0.178	0.208
65	1.000	1.000	1.000	1.000	1.000	1.000

Public Agency Police 3%@ 50

			, ·			
			Duration	of Service		
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.070	0.070	0.070	0.131	0.193	0.249
51	0.050	0.050	0.050	0.095	0.139	0.180
52	0.061	0.061	0.061	0.116	0.171	0.220
53	0.069	0.069	0.069	0.130	0.192	0.247
54	0.071	0.071	0.071	0.134	0.197	0.255
55	0.090	0.090	0.090	0.170	0.250	0.322
56	0.069	0.069	0.069	0.130	0.191	0.247
57	0.080	0.080	0.080	0.152	0.223	0.288
58	0.087	0.087	0.087	0.164	0.242	0.312
59	0.090	0.090	0.090	0.170	0.251	0.323
60	0.135	0.135	0.135	0.255	0.377	0.485
61	0.090	0.090	0.090	0.170	0.251	0.323
62	0.113	0.113	0.113	0.213	0.314	0.404
63	0.090	0.090	0.090	0.170	0.251	0.323
64	0.090	0.090	0.090	0.170	0.251	0.323
65	1.000	1.000	1.000	1.000	1.000	1.000

• These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Public Agency Fire 3%@50

			<u> </u>			
			Duration o	of Service		
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.034	0.034	0.034	0.048	0.068	0.080
51	0.046	0.046	0.046	0.065	0.092	0.109
52	0.069	0.069	0.069	0.097	0.138	0.163
53	0.084	0.084	0.084	0.117	0.166	0.197
54	0.103	0.103	0.103	0.143	0.204	0.241
55	0.127	0.127	0.127	0.177	0.252	0.298
56	0.121	0.121	0.121	0.169	0.241	0.285
57	0.101	0.101	0.101	0.141	0.201	0.238
58	0.118	0.118	0.118	0.165	0.235	0.279
59	0.100	0.100	0.100	0.140	0.199	0.236
60	0.150	0.150	0.150	0.210	0.299	0.354
61	0.100	0.100	0.100	0.140	0.199	0.236
62	0.125	0.125	0.125	0.175	0.249	0.295
63	0.100	0.100	0.100	0.140	0.199	0.236
64	0.100	0.100	0.100	0.140	0.199	0.236
65	1.000	1.000	1.000	1.000	1.000	1.000

APPENDIX B

- SUMMARY OF MAJOR BENEFIT OPTIONS
- DESCRIPTIONS OF PRINCIPAL PLAN PROVISIONS

Summary of Major Benefit Options

Shown below is a summary of the major <u>optional</u> benefits for which your agency has contracted. A description of principal standard and optional plan provisions is in the following section of this Appendix.

	Coverage Gro	oup
	75001	75101
Benefit Provision		
Benefit Formula Social Security Coverage Full/Modified	3.0% @ 50 No Full	3.0% @ 50 No Full
Final Average Compensation Period	12 mos.	12 mos.
Sick Leave Credit	Yes	Yes
Non-Industrial Disability	Standard	Standard
Industrial Disability	Yes	Yes
Pre-Retirement Death Benefits Optional Settlement 2W 1959 Survivor Benefit Level Special Alternate (firefighters)	Yes Level 4 Yes No	Yes Level 4 Yes No
Post-Retirement Death Benefits Lump Sum Survivor Allowance (PRSA)	\$5000 Yes	\$5000 Yes
COLA	2%	2%
Employee Contributions Contractual Employer Paid Contractual Employee Cost Sharing	No 0%	No 0%

DESCRIPTION OF PRINCIPAL PLAN PROVISIONS

The following is a description of the principal plan provisions used in calculating costs and liabilities. We have indicated whether a plan provision is standard or optional. Standard benefits are applicable to all members while optional benefits vary among employers. Optional benefits that apply to a single period of time, such as Golden Handshakes, have not been included. 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.

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*.

• The *benefit factor* depends on the benefit formula specified in your agency's contract. The table below shows the factors for each of the available formulas. Factors vary by the member's age at retirement. Listed are the factors for retirement at whole year ages:

Miscellaneous Plan Formulas

Retirement	2% at 60	2% at 55	2.5% at 55	2.7% at 55	3% at 60
Age					
50	1.092%	1.426%	2.0%	2.0%	2.0%
51	1.156%	1.522%	2.1%	2.14%	2.1%
52	1.224%	1.628%	2.2%	2.28%	2.2%
53	1.296%	1.742%	2.3%	2.42%	2.3%
54	1.376%	1.866%	2.4%	2.56%	2.4%
55	1.460%	2.0%	2.5%	2.7%	2.5%
56	1.552%	2.052%	2.5%	2.7%	2.6%
57	1.650%	2.104%	2.5%	2.7%	2.7%
58	1.758%	2.156%	2.5%	2.7%	2.8%
59	1.874%	2.210%	2.5%	2.7%	2.9%
60	2.0%	2.262%	2.5%	2.7%	3.0%
61	2.134%	2.314%	2.5%	2.7%	3.0%
62	2.272%	2.366%	2.5%	2.7%	3.0%
63 & Up	2.418%	2.418%	2.5%	2.7%	3.0%

Safety Plan Formulas

Retirement	½ at 55 *	2% at 55	2% at 50	3% at 55	3% at 50
Age					
50	1.783%	1.426%	2.0%	2.40%	3.0%
51	1.903%	1.522%	2.14%	2.52%	3.0%
52	2.035%	1.628%	2.28%	2.64%	3.0%
53	2.178%	1.742%	2.42%	2.76%	3.0%
54	2.333%	1.866%	2.56%	2.88%	3.0%
55 & Up	2.5%	2.0%	2.7%	3.0%	3.0%

^{*} For this formula, the benefit factor also varies by entry age. The factors shown are for members with an entry age of 35 or larger. If entry age is less than 35, then the age 55 benefit factor is 50% divided by the difference between age 55 and entry age. The benefit factor for ages prior to age 55 is the same proportion of the age 55 benefit factor as in the above table.

- 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. An agency may contract for an optional benefit where any unused sick leave accumulated at the time of retirement will be converted to credited service at a 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 36 or 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The standard benefit is 36 months. Employers have the option of providing a final compensation equal to the highest 12 consecutive months.
- For employees covered by Social Security, the Modified formula is the standard benefit. Under this type of formula, the final compensation is offset by \$133.33 (or by one third if the final compensation is less than \$400). Employers may contract for the Full benefit with Social Security that will eliminate the offset applicable to the final compensation. For employees not covered by Social Security, the Full benefit is paid with no offsets. Auxiliary organizations of the CSUC system may elect reduced contribution rates, in which case the offset is \$317 if members are not covered by Social Security or \$513 if members are covered by Social Security.
- The Miscellaneous Service Retirement benefit is not capped. The Safety 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 CalPERS employers, and with certain other Retirement Systems with which CalPERS 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 employed by any CalPERS employer at the time of disability in order to be eligible for this benefit.

Standard Benefit

The standard 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.

Improved Benefit

Employers have the option of providing the improved Non-Industrial Disability Retirement benefit. This benefit provides a monthly allowance equal to 30% of final compensation for the first 5 years of service, plus 1% for each additional year of service to a maximum of 50% 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

All safety members have this benefit. For miscellaneous members, employers have the option of providing this benefit. An employer may choose to provide the Increased benefit option or the Improved benefit option.

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 below.

Standard Benefit

The standard Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation.

Increased Benefit (75% of Final Compensation)

The increased Industrial Disability Retirement benefit is a monthly allowance equal to 75% of final compensation for total disability.

Improved Benefit (50% to 90% of Final Compensation)

The improved Industrial Disability Retirement benefit is a monthly allowance equal to the Workman's Compensation Appeals Board permanent disability rate percentage (if 50% or greater, with a maximum of 90%) times the final compensation.

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 of accumulated member contributions with respect to employment in this group. With the standard or increased benefit, a member may also choose to receive the annuitization of the accumulated member contributions.

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.

Post-Retirement Death Benefit

Standard Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$500 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Improved Lump Sum Payment

Employers have the option of providing an improved lump sum death benefit of \$600, \$2,000, \$3,000, \$4,000 or \$5,000.

Form of Payment for Retirement Allowance

Standard Form of Payment

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. Such reduction takes into account the amount to be provided to the beneficiary and the probable duration of payments (based on the ages of the member and beneficiary) made subsequent to the member's death.

Improved Form of Payment (Post Retirement Survivor Allowance)

Employers have the option to contract for the post retirement survivor allowance.

For retirement allowances with respect to service subject to the modified formula, 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. For retirement allowances with respect to service subject to the full or supplemental formula, 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, 25% or 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. This benefit will not be discontinued in the event the spouse remarries.

The remaining 75% or 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. Benefit options applicable to the option portion are the same as those offered with the standard form. The reduction is calculated in the same manner but is applied only to the option portion.

Pre-Retirement Death Benefits

Basic Death Benefit

This is a standard benefit.

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member must be actively employed with the CalPERS employer providing this benefit to be eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit 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, plus a lump sum in the amount of one month's salary for each completed year of current service, up to a maximum of six months' salary. 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

This is a standard 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 must be actively employed with the CalPERS employer providing this benefit to be 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 who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this 1957 Survivor 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. The total amount paid will be at least equal to the Basic Death benefit.

Optional Settlement 2W Death Benefit

This is an optional benefit.

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2W 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 who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this Optional Settlement 2W Death benefit.

Benefit

The Optional Settlement 2W 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 2W. (A retiree who elects Optional Settlement 2W 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, at which time it is continued to any unmarried children under age 18, if applicable. The total amount paid will be at least equal to the Basic Death Benefit.

Special Death Benefit

This is a standard benefit for safety members. An employer may elect to provide this benefit for miscellaneous members.

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:
 if 2 eligible children:
 if 3 or more eligible children:
 25.0% of final compensation
 25.0% of final compensation

Alternate Death Benefit for Local Fire Members

This is an optional benefit available only to local fire members.

Eliaibility

An employee's *eligible survivor(s)* may receive the Alternate Death benefit in lieu of the Basic Death Benefit or the 1957 Survivor Benefit if the member dies while actively employed and has at least 20 years of total CalPERS service. 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 18.

Benefit

The Alternate 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 2W. (A retiree who elects Optional Settlement 2W receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) If the member has not yet attained age 50, the benefit is equal to that which would be payable if the member had retired at age 50, based on service credited at the time of death. The allowance is payable as long as the surviving spouse lives, at which time it is continued to any unmarried children under age 18, if applicable. The total amount paid will be at least equal to the Basic Death Benefit.

Cost-of-Living Adjustments

Standard Benefit

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%.

Improved Benefit

Employers have the option of providing an improved cost-of-living adjustment of 3%, 4% or 5%.

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 80% 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.

Employee Contributions

Each employee contributes toward his or her retirement based upon the retirement formula. The standard employee contribution is as described below.

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

The monthly compensation breakpoint is \$0 for full and supplemental formula members and \$133.33 for employees covered by the modified formula.

The percent contributed above the monthly compensation breakpoint depends upon the benefit formula, as shown in the table below.

<u>Benefit Formula</u>	Percent Contributed above the
	<u>Breakpoint</u>
Miscellaneous, 2% at 60	7%
Miscellaneous, 2% at 55	7%
Miscellaneous, 2.5% at 55	8%
Miscellaneous, 2.7% at 55	8%
Miscellaneous, 3% at 60	8%
Safety, 1/2 at 55	Varies by entry age
Safety, 2% at 55	7%
Safety, 2% at 50	9%
Safety, 3% at 55	9%
Safety, 3% at 50	9%

The employer may choose to "pick-up" these contributions for the employees (Employer Paid Member Contributions or EPMC). An employer may also include Employee Cost Sharing in the contract, where employees contribute an additional percentage of compensation.

Auxiliary organizations of the CSUC system may elect reduced contribution rates, in which case the offset is \$317 and the contribution rate is 6% if members are not covered by Social Security. If members are covered by Social Security the offset is \$513 and the contribution rate is 5%.

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 Benefit

This is a pre-retirement death benefit available only to members not covered by Social Security. Any agency joining CalPERS subsequent to 1993 was required to provide this benefit if the members were not covered by Social Security. The benefit is optional for agencies joining CalPERS prior to 1994. Levels 1, 2 and 3 are now closed. Any new agency or any agency wishing to add this benefit or increase the current level must choose the 4th or Indexed Level.

This benefit is not included in the results presented in this valuation. More information on this benefit is abailable on the CalPERS website at www.calpers.ca.gov.

APPENDIX C

• GASB STATEMENT NO. 27

SAFETY POLICE PLAN of the CITY OF ANAHEIM Information for Compliance with GASB Statement No. 27

Under GASB 27, an employer reports an annual pension cost (APC) equal to the annual required contribution (ARC) plus an adjustment for the cumulative difference between the APC and the employer's actual plan contributions for the year. The cumulative difference is called the net pension obligation (NPO). The ARC for the period July 1, 2011 to June 30, 2012 has been determined by an actuarial valuation of the plan as of June 30, 2009. The contribution rate for the indicated period is 30.623% of payroll. In order to calculate the dollar value of the ARC for inclusion in financial statements prepared as of June 30, 2012, this contribution rate, as modified by any amendments for the year, would be multiplied by the payroll of covered employees that was actually paid during the period July 1, 2011 to June 30, 2012. The employer and the employer's auditor are responsible for determining the NPO and the APC.

Note: If an agency elects the Annual Lump Sum Prepayment Option, the ARC for the period July 1, 2011 through June 30, 2012 is \$14,943,937.

A summary of principal assumptions and methods used to determine the ARC is shown below.

<u>Retirement Program</u>

Valuation Date June 30, 2009

Actuarial Cost Method Entry Age Normal Cost Method

Amortization Method Level Percent of Payroll

Average Remaining Period 30 Years as of the Valuation Date Asset Valuation Method 15 Year Smoothed Market

Actuarial Assumptions

Investment Rate of Return 7.75% (net of administrative expenses)

Projected Salary Increases 3.55% to 13.15% depending on Age, Service, and type of employment

Inflation 3.00% Payroll Growth 3.25%

Individual Salary Growth A merit scale varying by duration of employment coupled with an

assumed annual inflation growth of 3.00% and an annual production

growth of 0.25%.

Initial unfunded liabilities are amortized over a closed period that depends on the plan's date of entry into CalPERS. Subsequent plan amendments are amortized as a level percentage of pay over a closed 20-year period. Gains and losses that occur in the operation of the plan are amortized over a 30 year rolling period, which results in an amortization of about 6% of unamortized gains and losses each year. If the plan's accrued liability exceeds the actuarial value of plan assets, then the amortization payment on the total unfunded liability may not be lower than the payment calculated over a 30 year amortization period. More complete information on assumptions and methods is provided in Appendix A of this report. Appendix B contains a description of benefits included in the valuation.

The Schedule of Funding Progress below shows the recent history of the actuarial accrued liability, actuarial value of assets, their relationship and the relationship of the unfunded actuarial accrued liability to payroll.

Valuation Date	Accrued Liability	tuarial Value Assets (AVA)	Unfunded ability (UL)	Funded	Ratios	Annual Covered		UL As a % of
	(a)	(b)	(a)-(b)	(AVA) (b)/(a)	Market Value		Payroll (c)	Payroll [(a)-(b)]/(c)
06/30/05	\$ 370,553,595	\$ 313,669,429	\$ 56,884,166	84.6%	87.2%	\$	35,177,852	161.7%
06/30/06	392,350,281	336,967,042	55,383,239	85.9%	91.3%		35,806,541	154.7%
06/30/07	425,138,505	366,663,174	58,475,331	86.2%	100.2%		40,322,739	145.0%
06/30/08	457,588,313	392,205,533	65,382,780	85.7%	87.6%		44,223,550	147.8%
06/30/09	496,422,604	411,137,205	85,285,399	82.8%	60.5%		46,021,500	185.3%

APPENDIX D

INVESTMENT RETURN SENSITIVITY ANALYSIS

Investment Return Sensitivity Analysis

The investment return realized during a fiscal year first affects the contribution rate for the fiscal year 2 years later. Specifically, the investment return for 2009-2010 will first be reflected in the June 30, 2010 actuarial valuation that will be used to set the 2012-2013 employer contribution rates and 2010-2011 investment return will first be reflected in the June 30, 2011 actuarial valuation that will be used to set the 2013-2014 employer contribution rates.

In July 2010, the investment return for fiscal year 2009-2010 was announced to be 11.4%. 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 is expected to be available later in October. The preliminary 11.4% return for the 2009-2010 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 June 2009. For purposes of projecting future employer rates, we are assuming an 11% investment return for fiscal year 2009-2010.

Based on an 11% investment return for fiscal year 2009-2010 and assuming that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur between now and the beginning of the fiscal year 2012-2013, the effect on the 2012-2013 Employer Rate is as follows:

Estimated 2012-2013 Employer Rate

Estimated Increase in Employer Rate between 2011-2012 and 2012-2013

31.9% 1.3%

As part of this report, a sensitivity analysis was performed to determine the effects of various investment returns during fiscal year 2010-2011 on the 2013-2014 employer rates. Once again, the projected 2013-2014 rate increases assume that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur between now and the beginning of fiscal year 2013-2014.

Five different 2010-2011 investment return scenarios were selected.

- The first scenario is what one would expect if the markets were to give us a 5th percentile return. The 5th percentile return corresponds to a -11% return for the 2010-2011 fiscal year.
- The second scenario is what one would expect if the markets were to give us a 25th percentile return. The 25th percentile return corresponds to a 0% return for the 2010-2011 fiscal year.
- \bullet The third scenario assumed the return for 2010-2011 would be our assumed 7.75% investment return which represents about a 47th percentile event.
- The fourth scenario is what one would expect if the markets were to give us a 75th percentile return. The 75th percentile return corresponds to a 16% return for the 2010-2011 fiscal year.
- Finally, the last scenario is what one would expect if the markets were to give us a 95th percentile return. The 95th percentile return corresponds to a 27% return for the 2010-2011 fiscal year.

The table below shows the estimated 2013-2014 contribution rate and the estimated increase over the 2012-2013 rate for your plan under the five different scenarios.

2010-2011 Investment Return Scenario	Estimated 2013-2014 Employer Rate	Estimated Increase in Employer Rate between 2012-2013 and 2013-2014
-11%	45.9%	14.0%
0%	40.4%	8.5%
7.75%	36.5%	4.6%
16%	32.5%	0.6%
27%	32.2%	0.3%

APPENDIX E

GLOSSARY OF ACTUARIAL TERMS

Glossary of Actuarial Terms

Accrued Liability (also called Actuarial Accrued Liability or Entry Age Normal Accrued Liability)

The total dollars needed as of the valuation date to fund all benefits earned in the past for *current* members.

Actuarial Assumptions

Assumptions made about certain events that will affect pension costs. Assumptions generally can be broken down into two categories: demographic and economic. Demographic assumptions include such things as mortality, disability and retirement rates. Economic assumptions include investment return, salary growth and inflation.

Actuarial Methods

Procedures employed by actuaries to achieve certain goals of a pension plan. These may include things such as funding method, setting the length of time to fund the past service liability and determining the actuarial value of assets.

Actuarial Valuation

The determination, as of a valuation date, of the normal cost, actuarial accrued liability, actuarial value of assets and related actuarial present values for a pension plan. These valuations are performed annually or when an employer is contemplating a change to their plan provisions.

Actuarial Value of Assets

The actuarial value of assets used for funding purposes is obtained through an asset smoothing technique where investment gains and losses are partially recognized in the year they are incurred, with the remainder recognized in subsequent years.

This method helps to dampen large fluctuations in the employer contribution rate.

Amortization Bases

Separate payment schedules for different portions of the unfunded liability. The total unfunded liability of a risk pool or non-pooled plan can be segregated by "cause", creating "bases" and each such base will be separately amortized and paid for over a specific period of time. This can be likened to a home mortgage that has 24 years of remaining payments and a second on that mortgage that has 10 years left. Each base or each mortgage note has its own terms (payment period, principal, etc.)

Generally in an actuarial valuation, the separate bases consist of changes in unfunded liability due to amendments, actuarial assumption changes, actuarial methodology changes, and gains and losses. Payment periods are determined by Board policy and vary based on the cause of the change.

Amortization Period

The number of years required to pay off an amortization base.

Annual Required Contributions (ARC)

The employer's periodic required annual contributions to a defined benefit pension plan as set forth in GASB Statement No. 27, calculated in accordance with the plan assumptions. The ARC is determined by multiplying the employer contribution rate by the payroll reported to CalPERS for the applicable fiscal year. However, if this contribution is fully prepaid in a lump sum, then the dollar value of the ARC is equal to the Lump Sum Prepayment.

Entry Age

The earliest age at which a plan member begins to accrue benefits under a defined benefit pension plan or risk pool. In most cases, this is age of the member on their date of hire.

Entry Age Normal Cost Method

An actuarial cost method designed to fund a member's total plan benefit over the course of his or her career. This method is designed to yield a rate expressed as a level percentage of payroll.

(The assumed retirement age less the entry age is the amount of time required to fund a member's total benefit. Generally, the older a member on the date of hire, the greater the entry age normal cost. This is mainly because there is less time to earn investment income to fund the future benefits.)

Fresh Start

A fresh start is the single amortization base created when multiple amortization bases are collapsed into one base and amortized over a new funding period.

Funded Status

A measure of how well funded a plan is. Or equivalently, how "on track" a plan is with respect to assets vs. accrued liabilities. A ratio greater than 100% means the plan or risk pool has more assets than liabilities and a ratio less than 100% means liabilities are greater than assets. A funded ratio based on the Actuarial Value of Assets indicates the progress toward fully funding the plan using the actuarial cost methods and assumptions. A funded ratio based on the Market Value of Assets indicates the short-term solvency of the plan.

GASB 27

Statement No. 27 of the Governmental Accounting Standards Board. The accounting standard governing a state or local governmental employer's accounting for pensions.

Lump Sum Contribution

A payment made by the employer to reduce or eliminate the unfunded liability.

Normal Cost

The annual cost of service accrual for the upcoming fiscal year for active employees. The normal cost should be viewed as the long term contribution rate.

Pension Actuary

A person who is responsible for the calculations necessary to properly fund a pension plan.

Prepayment Contribution

A payment made by the employer to reduce or eliminate the year's required employer contribution.

Present Value of Benefits

The total dollars needed as of the valuation date to fund all benefits earned in the past or expected to be earned in the future for *current* members.

Rolling Amortization Period

An amortization period that remains the same each year, rather than declining.

Superfunded

A condition existing when the actuarial value of assets exceeds the present value of benefits. When this condition exists on a given valuation date for a given plan, employee contributions for the rate year covered by that valuation may be waived.

Unfunded Liability or Unfunded Accrued Liability (UAL)

A plan with an actuarial value of assets below the accrued liability is said to have an unfunded liability and must temporarily increase contributions to get back on schedule.