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May 16, 2012

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Governor's Office  
State Capitol  
Sacramento, CA 95814

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Secretary of the Senate  
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Sacramento, CA 95814

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Legislative Counsel  
State Capitol, Room 3021  
Sacramento, CA 95814

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Chief Clerk of the Assembly  
State Capitol, Room 3196  
Sacramento, CA 95814

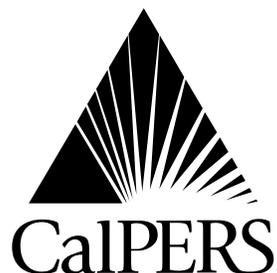
The California Public Employees' Retirement System Board of Administration (Board) has accepted the June 30, 2011, Actuarial Valuation of the Judges' II Retirement System (System).

In the report, the actuarially determined employer contribution rate is 22.837 percent for the fiscal year from July 1, 2012, to June 30, 2013. This compares with a rate of 23.441 percent for the previous fiscal year. The June 30, 2011, funded status of the System on a market value of assets basis is 94.5 percent. This compares with 81.1 percent for the previous fiscal year.

The Board is pleased to file the 2011 report for the Judges' II Retirement System with the Governor and the Legislature.

Respectfully,

ROB FECKNER, President  
Board of Administration



**Judges' II Retirement System  
Actuarial Valuation  
as of  
June 30, 2011**

**Establishing Required Contributions  
for the Fiscal Year  
July 1, 2012 through June 30, 2013**

**CalPERS Actuarial Valuation – June 30, 2011**  
**Judges' Retirement System II**

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**CalPERS Actuarial Valuation – June 30, 2011  
Judges' Retirement System II**

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## Actuarial Certification

**Certification** To the best of our knowledge, this report is complete and accurate and contains sufficient information to fully and fairly disclose the actuarial funded condition of the Judges' Retirement System II as of June 30, 2011. Based on the employee data provided by the Judges' Retirement System administrative staff at CalPERS, the statement of assets provided by the CalPERS Fiscal Services Division, and the benefits as outlined in Appendix B, it is our opinion that the valuation has been performed in accordance with generally accepted actuarial principles and that the assumptions and methods are reasonable for this plan.



FRITZIE ARCHULETA, ASA, MAAA  
Senior Pension Actuary, CalPERS



ALAN MILLIGAN, MAAA, FCA, FSA, FCIA  
Chief Actuary, CalPERS

# Highlights and Executive Summary

**Contents**

This section contains the following topics:

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**CalPERS Actuarial Valuation – June 30, 2011  
Judges' Retirement System II**

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## **Highlights and Executive Summary**

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**Purpose of the Report**

This actuarial valuation of the Judges' Retirement System II of the State of California was performed by CalPERS staff actuaries as of June 30, 2011 in order to:

- set forth the actuarial assets and funding liabilities of this plan as of June 30, 2011;
- establish the actuarially determined recommended contribution rate for this plan for the fiscal year July 1, 2012 through June 30, 2013;
- provide actuarial information as of June 30, 2011, to the CalPERS Board of Administration and other interested parties, and
- provide pension information as of June 30, 2011 under Governmental Accounting Standards Board (GASB) Statement Number 27.

The use of this report for other purposes may be inappropriate.

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**CalPERS Actuarial Valuation – June 30, 2011  
Judges’ Retirement System II**

**Development  
of the  
Employer  
Contribution  
Rate**

This is the seventeenth annual actuarial valuation of the Judges’ Retirement System II. This system began on November 9, 1994 to provide retirement and ancillary benefits to judges elected or appointed on or after that date. The employer contribution rate from the inception of the plan until June 30, 1996 was set by State statute. Subsequently, the employer contribution rate was determined through an actuarial valuation process. This actuarial valuation sets forth the employer contribution rate for the plan for the fiscal year July 1, 2012 through June 30, 2013.

The following table illustrates total recommended employer contribution over the course of 2012-2013. The amount of money is illustrated in dollars and then is shown as a percentage of the projected payroll that is expected over the course of the year.

	<b>Fiscal Year 2011/2012</b>	<b>Fiscal Year 2012/2013</b>
Employer Contribution (in Dollars)		
Payment for Normal Cost	\$ 49,148,662	\$ 52,203,825
Payment on Amortization Bases	3,995,474	3,434,875
Total Employer Contribution	\$ 53,144,136	\$ 55,638,700
 Projected Annual Payroll for Contribution Year	 \$ 226,710,927	 \$ 243,635,717
 Employer Contribution (Percentage of Projected Payroll)		
Payment for Normal Cost	21.679%	21.427%
Payment on Amortization Bases	1.762%	1.410%
Total Employer Contribution	23.441%	22.837%
 Employee Contribution (Percentage)	 8.000%	 8.000%

**CalPERS Actuarial Valuation – June 30, 2011  
Judges’ Retirement System II**

**Funded Status of the Plan** The tables below summarize the funded status of the Judges’ Retirement System II as of June 30.

	<b>June 30, 2010</b>	<b>June 30, 2011</b>
Present Value of Projected Benefits	\$ 1,060,742,176	\$ 1,173,657,436
Entry Age Normal Accrued Liability	520,687,470	609,562,110
Actuarial Value of Assets (AVA)*	461,071,403	561,475,530
Unfunded Liability	\$ <u>59,616,067</u>	\$ <u>48,086,580</u>
Market Value of Assets (MVA)	\$ 422,100,782	\$ 575,978,052
Funded Status (on an MVA basis)	81.1%	94.5%

\*The Actuarial Value of Assets is used to establish funding requirements, while the funded ratio based on the Market Value of Assets is a better indicator of the solvency of the plan.

**CalPERS Actuarial Valuation – June 30, 2011  
Judges' Retirement System II**

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**Changes Since  
Prior  
Valuation****Actuarial Assumptions**

The CalPERS Actuarial office conducted a study and hired an independent evaluator to assess current economic assumptions. Based on the information from both studies, the CalPERS Board of Administration has adopted updated economic assumptions to be used beginning with the June 30, 2011 valuation. In particular, the recommendation based on both studies was to lower the price inflation from 3.00 to 2.75 percent.

Lowering the price inflation also had a direct impact on the Investment Return and the Overall Payroll Growth assumptions. The Investment Return assumption is calculated as the sum of the price inflation and the real rate of return. The assumed real rate of return is 4.5 percent. When added to the new price inflation of 2.75 percent, the resulting investment return is 7.25 percent. The 7.25 percent does not take into account the 0.25 percent reduction for administrative fees. After those fees are deducted the discount rate settles at 7.00 percent. The Overall Payroll Growth is calculated as the sum of the price inflation and real wage inflation. The assumed real wage inflation is 0.25 percent. When added to the new price inflation of 2.75 percent, the resulting overall payroll growth is 3.00 percent.

The new assumptions are described in Appendix A of the valuation report. The effect of change in assumption 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****Internal Revenue Code Section 415**

The limitations on benefits imposed by Internal Revenue Code Section 415 were taken into account in this valuation. The effect of these limitations has been deemed immaterial on the overall results of this valuation. No special amortization base has been created to recognize this change.

**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. The effect of these limitations has been deemed immaterial on the overall results of this valuation. No special amortization base has been created to recognize this change.

**Plan provisions**

No changes were made since the prior valuation.

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## **Summary of Liabilities And Recommended Employer Contribution**

**Contents**

This section contains the following topics:

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## **Summary of Liabilities and Recommended Employer Contribution**

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**Comparison  
of Current  
and Prior  
Year Results**

The table on the following page is a comparison of key valuation results for the current valuation date to the corresponding values from the prior valuation date.

**CalPERS Actuarial Valuation – June 30, 2011**  
**Judges' Retirement System II**

<b>Results</b>	<b>June 30, 2010</b>	<b>June 30, 2011</b>
<b>Members Included in the Valuation</b>		
Active Members	1,186	1,280
Vested Terminated Members	1	0
Receiving Benefits	19	30
<b>Total</b>	<b>1,206</b>	<b>1,310</b>
<b>Annual Covered Payroll</b>		
Annual Covered Payroll	\$ 212,663,194	\$ 229,650,030
Projected Annual Payroll for Contribution Year	\$ 226,710,927	\$ 243,635,717
Average Annual Pay	\$ 179,311	\$ 179,414
Average Attained Age for Actives	56.02	56.36
Average Entry Age for Actives	49.07	49.18
<b>Present Value of Benefits</b>		
Active Members	\$ 1,046,312,562	\$ 1,142,061,600
Vested Terminated Members	208,632	0
Receiving Benefits	14,220,983	31,595,836
<b>Total</b>	<b>\$ 1,060,742,176</b>	<b>\$ 1,173,657,436</b>
<b>Accrued Liability</b>		
Active Members	\$ 506,257,856	\$ 577,966,274
Vested Terminated Members	208,632	0
Receiving Benefits	14,220,983	31,595,836
<b>Total</b>	<b>\$ 520,687,470</b>	<b>\$ 609,562,110</b>
<b>Present Value of Future Employee Contributions</b>		
Present Value of Future Employee Contributions	\$ 150,446,427	\$ 158,644,697
<b>Present Value of Future Employer Normal Cost</b>		
Present Value of Future Employer Normal Cost	\$ 389,588,279	\$ 405,450,629
<b>Actuarial Value of Assets</b>		
Actuarial Value of Assets	\$ 461,071,403	\$ 561,475,530
<b>Unfunded Liability/(Excess Assets)</b>		
Unfunded Liability/(Excess Assets)	\$ 59,616,067	\$ 48,086,580
<b>Employer Contribution Required (in Projected Dollars)</b>		
Payment for Normal Cost	\$ 49,148,662	\$ 52,203,825
Payment on Amortization Bases	3,995,474	3,434,875
<b>Total</b>	<b>\$ 53,144,136</b>	<b>\$ 55,638,700</b>
<b>Employer Contribution Required (Percent of Projected Payroll)</b>		
Payment for Normal Cost	21.679%	21.427%
Payment on Amortization Bases	1.762%	1.410%
<b>Total</b>	<b>23.441%</b>	<b>22.837%</b>

**CalPERS Actuarial Valuation – June 30, 2011  
Judges' Retirement System II**

**Gain/Loss Analysis**      Shown below is an analysis of the (Gain)/Loss for the fiscal year ending on the valuation date. The Gain or Loss is shown separately for assets, contributions, and liabilities.

**A. Total (Gain)/Loss for the Year**

1. Unfunded Accrued Liability (UAL) as of 6/30/10	\$ 59,616,067
2. Expected Payment on UAL during 2010/2011	5,186,356
3. Interest through 6/30/11 [0.0725 x A1 – (1.0725 <sup>1/2</sup> - 1) x A2]	<u>4,137,449</u>
4. Expected UAL before all other changes[A1 - A2 + A3]	\$ 58,567,160
5. Change due to revised actuarial methods	0
6. Change due to new actuarial assumptions	<u>(38,798)</u>
7. Expected UAL after all changes [A4 + A5 + A6]	58,528,362
8. Actual Unfunded Accrued Liability as of 6/30/11	<u>48,086,580</u>
9. Total (Gain)/Loss for 2010/2011 [A8 – A7]	\$ (10,441,783)

**B. Contribution (Gain)/Loss for the Year**

1. Expected Contribution (Employer and Employee)	\$ 70,353,945
2. Interest on Expected Contributions [(1.0725 <sup>1/2</sup> - 1) x B1]	2,505,709
3. Actual Contribution	72,451,929
4. Interest on Actual Contributions [((1.0725) <sup>1/2</sup> - 1) x B3]	<u>2,580,430</u>
5. Contribution (Gain)/Loss [(B1 + B2) – (B3 + B4)]	\$ (2,172,705)

**C. Asset (Gain)/Loss for the Year**

1. Actuarial Value of Assets as of 6/30/10	\$ 461,071,403
2. Contributions Received	72,451,929
3. Benefits, Refunds Paid and Administrative Costs	(8,779,128)
4. Expected Interest [0.0725 x C1 + ((1.0725) <sup>1/2</sup> - 1) x (C2 + C3)]	35,695,432
5. Expected Assets at 6/30/10 [C1 + C2 + C3 + C4]	\$ 560,439,636
6. Actual Actuarial Value of Assets as of 6/30/11	<u>561,475,530</u>
7. Asset (Gain)/Loss [C5 - C6]	\$ (1,035,894)

**D. Liability (Gain)/Loss for the Year**

1. Total (Gain)/Loss (A9)	\$ (10,441,783)
2. Contribution (Gain)/Loss (B5)	(2,172,705)
3. Asset (Gain)/Loss (C7)	<u>(1,035,894)</u>
4. Liability (Gain)/Loss [D1 - D2 - D3]	\$ (7,233,184)

**CalPERS Actuarial Valuation – June 30, 2011  
Judges’ Retirement System II**

**Schedule of Amortization Bases**

The schedule below shows the development of the proposed payment on the Amortization Bases. The rate smoothing method requires that gains and losses be combined into a single base and amortized over 30 years. Please refer to Appendix A for an explanation of how amortization periods are determined.

<b>Reason For Base</b>	<b>Date Established</b>	<b>Remaining Period</b>	<b>Balance on 6/30/11</b>	<b>Expected Payment on UAL 2011-2012</b>	<b>Amount Remaining on 6/30/12</b>	<b>Scheduled Payment Fiscal Year 2012-2013</b>
Fresh Start	6/30/07	26	\$31,095,969	\$1,871,827	\$31,336,454	\$1,927,581
Assumption Change	6/30/09	18	21,878,291	1,643,058	21,710,179	1,691,520
Method Change	6/30/09	18	8,898,409	668,270	8,830,034	687,981
Assumption Change	6/30/11	20	(38,798)	0	(41,514)	(3,010)
(Gain)/Loss	6/30/11	30	(13,747,293)	580,752	(15,310,338)	(869,197)
Total			\$48,086,580	\$4,763,906	\$46,524,815	\$3,434,875

**Reconciliation of Employer Contribution Rates**

This table illustrates how the contribution rate is calculated and, more importantly, why the Employer Contribution Rate differs this year from the previous year.

	<b>Percentage of Projected Payroll</b>	<b>Estimated \$ Based on Projected Payroll</b>
1. 2011-2012 Employer Rate (from prior year annual report)	23.441%	\$ 53,144,136
2. Effect of changes since the prior annual valuation		
a) Effect of change in payroll	-	3,967,340
b) Effect of change in actuarial assumptions	0.017%	40,721
c) Effect of new actuarial methods	-	0
d) Effect of unexpected changes in demographics	<u>(0.621%)</u>	<u>(1,513,497)</u>
e) Net effect of the changes above [Sum of a through d]	(0.604%)	2,494,564
3. 2012-2013 Estimated Employer Contribution	22.837%	\$ 55,638,700

**CalPERS Actuarial Valuation – June 30, 2011**  
**Judges’ Retirement System II**

**Employer Contribution Rate History** This table provides the employer contribution rates for the Judges’ Retirement System II from its inception to the rate established by this valuation.

<u>Fiscal Year</u>	<u>Contribution Rate</u>	<u>Fiscal Year</u>	<u>Contribution Rate</u>
1995-96	18.800%	2004-05	20.252%
1996-97	19.170%	2005-06	19.848%
1997-98	21.920%	2006-07	19.917%
1998-99	21.540%	2007-08	19.916%
1999-00	18.567%	2008-09	20.227%
2000-01	18.130%	2009-10	20.358%
2001-02	18.508%	2010-11	24.041%
2002-03	19.231%	2011-12	23.441%
2003-04	19.217%	2012-13	22.837%

**CalPERS Actuarial Valuation – June 30, 2011  
Judges’ Retirement System II**

**Funding History**

Shown below is the history of funding progress for the plan.

<b>Valuation Date</b>	<b>Entry Age Normal Accrued Liability</b>	<b>Actuarial Value Of Assets (AVA)</b>	<b>Funded Ratio (AVA)</b>	<b>Market Value of Assets (MVA)</b>	<b>Funded Ratio (MVA)</b>	<b>Projected Annual Covered Payroll</b>
6/30/95	\$ 70,657	\$ 239,474	338.9%	\$ 239,474	338.9%	\$ 3,944,181
6/30/96	2,812,567	2,387,870	84.9%	2,387,870	84.9%	11,762,307
6/30/97	7,906,056	7,242,314	91.6%	7,242,314	91.6%	21,220,469
6/30/98	15,043,465	15,120,408	100.5%	16,256,101	108.1%	32,960,219
6/30/99	26,921,274	27,154,854	100.9%	28,372,726	105.4%	41,448,759
6/30/00	41,619,162	40,503,417	97.3%	41,354,371	99.4%	48,450,504
6/30/01	60,933,072	55,954,506	91.8%	51,981,931	85.3%	69,937,653
6/30/02	76,459,252	71,928,890	94.1%	65,389,900	85.5%	80,237,849
6/30/03	105,116,289	96,107,358	91.4%	90,713,575	86.3%	95,612,128
6/30/04	137,703,630	129,152,543	93.8%	129,315,504	93.9%	108,842,477
6/30/05	177,760,708	167,556,473	94.3%	171,875,047	96.7%	122,280,588
6/30/06	220,134,685	212,903,528	96.7%	218,986,736	99.5%	136,602,126
6/30/07	294,982,560	267,604,460	90.7%	290,733,043	98.6%	174,473,271
6/30/08	366,513,989	334,903,486	91.4%	325,451,000	88.8%	190,413,674
6/30/09*	450,547,115	378,691,893	84.1%	315,576,578	70.0%	211,942,734
6/30/10	520,687,470	461,071,403	88.6%	422,100,782	81.1%	226,710,927
6/30/11	609,562,110	561,475,530	92.1%	575,978,052	94.5%	243,635,717

\*New funding method used since 6/30/09 valuation. Please refer to Appendix A for an explanation of funding method.

# Summary of Assets

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## Summary of Assets

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**Reconciliation  
of the Market  
Value of  
Assets**

The following displays the change in the Market Value of Assets from the prior valuation to the current valuation by type of transaction.

1.	Beginning Balance as of 6/30/2010	\$ 422,100,782
2.	Prior Period Adjustment*	<u>(1,391,464)</u>
3.	Adjusted Beginning Balance as of 6/30/2010	\$ 420,709,318
4.	Member Contributions	18,589,236
5.	Employer Contributions	53,862,693
6.	Benefit Payments	(2,235,847)
7.	Refunds	(5,869,549)
8.	Administration Costs	(673,732)
9.	Investment Earnings	<u>91,595,932</u>
10.	Ending Balance as of 6/30/2011	\$ 575,978,052

\*Payments amounting to \$1,391,464 were transferred from the Member Contribution account to the Unapplied Remittances account resulting in an adjustment which reduced the Fund Balance on June 30, 2010.

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**Development  
of the  
Actuarial  
Value of  
Assets**

The development of the Actuarial Value of Assets for the current valuation date is shown below. This is the amount of asset used in the determination of the contribution rate.

1.	Actuarial Value of Assets as of 6/30/2010	\$ 461,071,403
2.	Member Contributions	18,589,236
3.	Employer Contributions	53,862,693
4.	Benefit Payments	(2,235,847)
5.	Refunds	(5,869,549)
6.	Administration Costs	(673,732)
7.	Expected Investment Return	35,695,432
8.	Expected Actuarial Value of Assets	560,439,636
9.	Market Value of Assets as of 6/30/2011	575,978,052
10.	One-Fifteenth of the Difference Between Market Value of Assets and Expected Actuarial Value of Assets [(9) – (8)] x 1/15	1,035,894
11.	Preliminary Actuarial Value of Assets [(8) + (10)]	561,475,530
12.	Preliminary Actuarial Value to Market Value Ratio [(11) / (9)]	97.48%
13.	Final Actuarial Value to Market Value Ratio (Minimum 80%, Maximum 120%)	97.48%
14.	Final Actuarial Value of Assets as of 6/30/2011	\$ 561,475,530

**Asset Allocation**

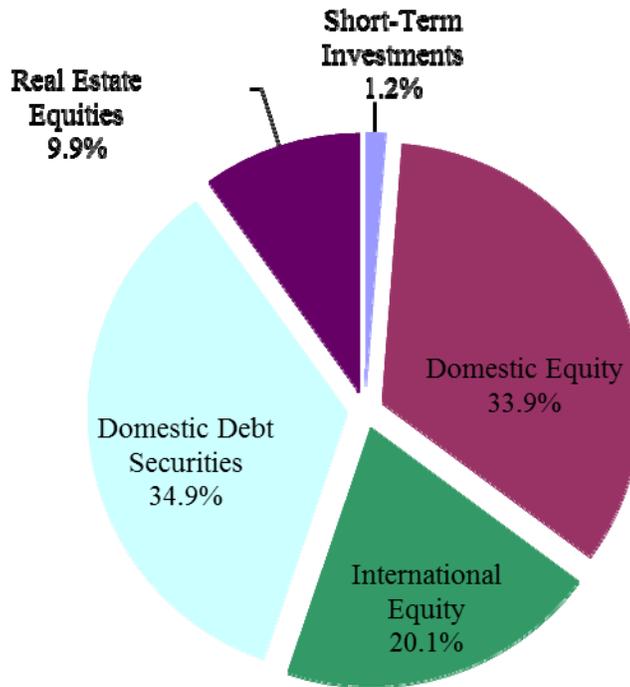
Shown below is the Market Value of Assets, by asset type, as of the valuation date.

<b>Cash</b>	\$	1,707
<b>Investments at Market Value</b>		
Surplus Money Investment Fund		7,062,000
Short-term Investment Fund		6,745
Domestic Equity		193,343,696
Domestic Debt Securities		212,273,518
International Equity		114,442,110
Real Estate Equities		43,184,232
Subtotal of Investments	\$	570,312,300
<b>Accounts Receivable</b>		
Accounts Receivable Reimbursements		23,623
Due from Other Funds		5,349
Interest Accrued on Investments		7,081
Member and Employer Contributions		5,839,445
Subtotal of Accounts Receivable	\$	5,875,499
<b>Accounts Payable</b>		(211,454)
<b>Fund Balance at Market Value on 6/30/2011</b>	\$	575,978,052

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**Asset  
Allocation  
Chart**

This is the graphical representation of how the money contained in the Judges' Retirement II Fund is allocated for investment.



Receivables and payables are not included.

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## Summary of Participant Data

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## Summary of Participant Data

**Reconciliation of Participants** The table below illustrates a reconciliation of the participant data over the course of the valuation year. It identifies numerically who entered the plan, who left the plan and who remained in the plan in the same status as on the previous valuation date or who moved to a new status over the course of the year.

### Reconciliation of Participants For the Fiscal Year Ending June 30, 2011

	Actives	Inactive	Retirees and Beneficiaries	Total
<b>As of June 30, 2010</b>	1,186	1	19	1,206
1. New Entrants	122	0	0	122
2. Non-Vested Terminations				
• Refund Paid	(2)	0	0	(2)
• Refund Pending	0	0	0	0
3. Vested Terminations				
• Monetary Credit Paid	(15)	(1)	0	(16)
• Monetary Credit Pending	0	0	0	0
4. Disabilities	0	0	0	0
5. Retirements	(9)	0	9	0
6. Death with Beneficiary	(1)	0	1	0
7. Active Death Benefit	(1)	0	1	0
8. Benefits Ceasing (Beneficiaries)	0	0	0	0
<b>As of June 30, 2011</b>	<b>1,280</b>	<b>0</b>	<b>30</b>	<b>1,310</b>

*Judges' Retirement System II  
Actuarial Valuation – June 30, 2011*

**Distribution  
of Active  
Members**

The following table displays the number of active participants by age and service as of June 30, 2011.

<b>Years of Service at Valuation Date</b>						
<b>Attained Age</b>	<b>0-4</b>	<b>5-9</b>	<b>10-14</b>	<b>15-19</b>	<b>20+</b>	<b>Total</b>
15-34	0	0	0	0	0	0
35-39	7	0	0	0	0	7
40-44	69	2	0	0	0	71
45-49	119	53	8	0	0	180
50-54	101	92	49	8	0	250
55-59	114	117	85	20	0	336
60-64	88	70	85	17	0	260
65+	12	48	79	37	0	176
<b>All Ages</b>	<b>510</b>	<b>382</b>	<b>306</b>	<b>82</b>	<b>0</b>	<b>1280</b>

**Distribution  
of Average  
Annual  
Salaries**

The following table displays the average salaries of active participants by age and service as of June 30, 2011.

<b>Years of Service at Valuation Date</b>						
<b>Attained Age</b>	<b>0-4</b>	<b>5-9</b>	<b>10-14</b>	<b>15-19</b>	<b>20+</b>	<b>Average</b>
15-34	\$ -	\$ -	\$ -	\$ -	\$ -	\$-
35-39	\$ 178,789	\$ -	\$ -	\$ -	\$ -	\$ 178,789
40-44	\$ 178,789	\$ 178,789	\$ -	\$ -	\$ -	\$ 178,789
45-49	\$ 179,006	\$ 178,789	\$ 178,789	\$ -	\$ -	\$ 178,932
50-54	\$ 179,811	\$ 179,070	\$ 178,789	\$ 185,242	\$ -	\$ 179,512
55-59	\$ 179,015	\$ 179,230	\$ 180,004	\$ 180,080	\$ -	\$ 179,404
60-64	\$ 179,082	\$ 178,789	\$ 180,004	\$ 181,825	\$ -	\$ 179,484
65+	\$ 178,789	\$ 179,327	\$ 179,769	\$ 181,579	\$ -	\$ 179,962
<b>Average</b>	<b>\$ 179,143</b>	<b>\$ 179,059</b>	<b>\$ 179,717</b>	<b>\$ 181,622</b>	<b>\$ -</b>	<b>\$ 179,414</b>

**Distribution of Retired Members and Beneficiaries**

The following table displays the number of recipients by age and retirement type. as of June 30, 2011.

<b>Attained Age</b>	<b>Service Retirement</b>	<b>Non-Industrial Disability</b>	<b>Industrial Disability</b>	<b>Total</b>
45-49	0	1	0	1
50-54	0	1	0	1
55-59	1	1	0	2
60-64	2	3	0	5
65-69	1	3	0	4
70-74	5	4	0	9
75-79	5	0	0	5
80-84	1	0	0	1
85 and Over	0	0	0	0
<b>All Ages</b>	15	13	0	28*

\*Does not include beneficiary receiving 36 month pre-retirement death benefit

## Appendices

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**Contents**

This section contains the following topics:

<b>Topic</b>	<b>See Page</b>
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## **Appendix A – Actuarial Data, Methods and Assumptions**

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### **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.

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### **Actuarial 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. In addition, all gains or losses are tracked and amortized over a rolling 30 year period. Finally, 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.

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:

- 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
- 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.

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**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.

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**Actuarial  
Assumptions**

The actuarial assumptions used in the valuation are shown below. These assumptions are based upon recommendations from both CalPERS actuarial staff and outside consulting actuaries.

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**Judges' Retirement System II**  
**Actuarial Valuation – June 30, 2011**

**Economic Assumptions**

The following table identifies the economic assumptions used in the valuation.

<b>June 30, 2011</b>	
Gross Investment Return:	7.25%
Less Administrative Expense:	0.25%
Net Investment Return, compounded annually:	7.00%
Individual Salary Increases, compounded annually:	3.00%
Overall Payroll Growth, compounded annually*	3.00%
Inflation:	2.75%

\*The Overall Payroll Growth assumption is used in projecting the payroll over which the unfunded liability is amortized.

**Demographic Assumptions**

**Service Retirement**

The table below illustrates the assumptions used in the valuation to determine the probability of a judge retiring out of the system.

**Service Greater than 20 years**

<b>Age</b>	<b>Rate</b>
Below 65	0.000
65	0.750
66	0.400
67	0.300
68	0.350
69	0.500
70*	1.000

\* For Judges age 70 and older with 5 or more years of service the probability of retirement is 100%.

**Withdrawal** Rates vary by age and years of service as shown in the table below.

Entry Age	Years of Service					
	0-1	1-2	2-3	3-4	4-5	5 or more
35	0.00525	0.00525	0.00525	0.00525	0.00525	0.00225
40	0.00450	0.00450	0.00450	0.00450	0.00450	0.00375
45	0.00375	0.00375	0.00375	0.00375	0.00375	0.00750
50	0.00375	0.00375	0.00375	0.00375	0.00375	0.00900
55	0.00000	0.00000	0.00000	0.00000	0.00000	0.00825
60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00750

**Pre-Retirement Non-Industrial Mortality and Disability** Rates vary by age as shown in the table below.

Attained Age	Pre-Retirement Mortality		Non-Industrial Disability	
	Male	Female	Male	Female
35	0.00067	0.00046	0.00000	0.00000
40	0.00087	0.00065	0.00100	0.00100
45	0.00120	0.00093	0.00190	0.00190
50	0.00176	0.00126	0.00320	0.00320
55	0.00260	0.00176	0.00540	0.00540
60	0.00395	0.00266	0.00850	0.00850
65	0.00608	0.00419	0.01220	0.01220
70	0.00914	0.00649	0.00000	0.00000

**Post  
Retirement  
Mortality**

*2009 CalPERS Optional Settlement Assumption for Judges*

<b>Attained Age</b>	<b>Standard</b>		<b>Non-Industrial Disability</b>	
	<b>Male</b>	<b>Female</b>	<b>Male</b>	<b>Female</b>
35	0.00075	0.00043	0.00984	0.00548
40	0.00093	0.00062	0.01666	0.00674
45	0.00133	0.00085	0.01646	0.00985
50	0.00239	0.00125	0.01632	0.01245
55	0.00474	0.00243	0.01936	0.01580
60	0.00720	0.00431	0.02293	0.01628
65	0.01069	0.00775	0.03174	0.01969
70	0.01675	0.01244	0.03870	0.03019
75	0.03080	0.02071	0.06001	0.03915
80	0.05270	0.03749	0.08388	0.05555
85	0.09775	0.07005	0.14035	0.09577
90	0.16747	0.12404	0.21554	0.14949
95	0.25659	0.21556	0.31025	0.23055
100	0.34551	0.31876	0.45905	0.37662
105	0.58527	0.56093	0.67923	0.61523
110	1.00000	1.00000	1.00000	1.00000

**Industrial  
Mortality**

Rates are zero.

**Industrial  
Disability**

Rates are zero.

**Marital Status**

Probability of being married at service retirement or disability retirement is 90%.

**Age of Spouse**

Assumes that female spouses are three years younger than male spouses.

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**Monetary Credit Plan Assumptions**      The actuarial assumptions used to convert the balance in the Monetary Credit Plan to an annuity value are those used in the valuation of this plan and are stated above.

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**Internal Revenue Code Section 415**      The limitations on benefits imposed by Internal Revenue Code Section 415 were taken into account in this valuation. The effect of these limitations has been deemed immaterial on the overall results of this valuation.

**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. It was determined that this change generally had minimal impact on the employer rates and no special amortization base has been created.

## **Previous Assumptions and Methods**

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**Previous Price Inflation**      The CalPERS Actuarial office conducted a study and hired an independent evaluator to assess current economic assumptions. Based on the information from both studies, the CalPERS Board of Administration has adopted a lower the price inflation. The Price Inflation was lowered from 3.00% to 2.75%.

**Previous Gross Investment Return**      Due to the lower inflation assumption, the Gross Investment Return was lowered from 7.50% to 7.25%.

**Previous Individual Salary Increases**      Due to the lower inflation assumption, the Individual Salary Increases were lowered from 3.25% to 3.00%.

**Previous Overall Payroll Growth**      Due to the lower inflation assumption, the Overall Payroll Growth was lowered from 3.25% to 3.00%.

## Appendix B – Summary of Principal Plan Provisions

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**Background** Judges' Retirement System II (JRS II) was established in 1994 to create a fully funded, actuarially-sound retirement system for judges appointed or elected on or after November 9, 1994. This system provides a unique combination of two basic types of retirement allowances: a defined benefit plan and a monetary credit plan. The defined benefit plan provides a lifetime monthly retirement allowance of up to 75 percent of final compensation. The monetary credit plan allows for a refund of member contributions, employer contributions (see below) and interest at retirement.

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**Membership** The JRS II provides retirement, death, withdrawal and disability benefits for Supreme and Appellate Court Justices, Superior Court Judges, and Municipal Court Judges who are appointed or elected on or after November 9, 1994, and their beneficiaries.

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**Member Contributions** Members of the system contribute 8% of their annual compensation to the plan.

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**Monetary Credit Account** Members accrue monthly monetary credits equal to 18% of monthly salary. These monetary credits are accumulated in a Monetary Credit Account for each member and also credited with earnings monthly at a rate, not less than zero, equal to the annual net earnings rate achieved by the Fund. The Monetary Credit Account provides an optional benefit at eligible retirement ages (described below) if the member chooses this option. If a member withdraws from the system before he or she has vested (accumulated at least 5 years of service), the member is paid the amount of his or her 8% of salary contributions to the system, but not the full Monetary Credit Account. After 5 years of service however, the Monetary Credit Account becomes the property of the member upon withdrawal.

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**Service Retirement**

**Eligibility** - Judges must be at least age 65 with 20 years or more of service or age 70 with a minimum of 5 years of service. Two types of service retirement are available: Defined Benefit Plan or Monetary Credit Plan. Election of a plan must be made within 30 days after retirement.

**Defined Benefit Plan** - This option provides a "defined benefit" of 3.75% of the highest 12-month average salary per year of service, up to 75% of final average pay for judges reaching age 65 with at least 20 years of service. The normal form of payment is a joint and 50% contingent annuity with the spouse as contingent annuitant. This provides a surviving spouse with a monthly allowance equal to 50% of the judge's allowance. Optional settlements are available which reduce a judge's normal retirement benefit.

**Monetary Credit Plan** - This option provides a cash payment in a single lump sum or the member may elect to receive an annuity at retirement based on the value of his or her Monetary Credit Account.

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**Non-Industrial Disability Retirement (Non-Work Related)**

**Eligibility** - Judges who have five years of service and become permanently disabled because of a mental or physical disability may apply to the Commission On Judicial Performance for disability retirement.

**Benefit** - An allowance, based upon the judge's age, equal to the lesser of the following:

3.75% of final compensation multiplied by the number of years of service the judge would have been credited had he or she continued to work until the age he or she would have first been eligible to retire, or

65% of the judge's average monthly salary during the 12 months preceding the retirement date.

The normal form of payment is a joint and 50% contingent annuity with the spouse as the contingent annuitant.

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**Industrial Disability Retirement (Work Related)**

**Benefit** - Judges receive 65% of the judge's average monthly salary during the 12 months preceding the retirement date regardless of age or length of service.

The normal form of payment is a joint and 50% contingent annuity with the spouse as the contingent annuitant.

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**Non-Industrial Pre-Retirement Death Benefit**

If Eligible for Service Retirement - Spouses receive either the monthly retirement allowance equal to one-half of the judge's "defined benefit" plan allowance or the judge's monetary credits.

If Not Eligible for Service Retirement - Spouses receive the judge's monetary credits or three times the annual salary at the time of death paid in 36 monthly installments, whichever is greater.

---

**Industrial Pre-Retirement Death Benefit**

If a judge dies in office, is age 65 or older with a minimum of 20 years of service and elects to have this provision apply (one time irrevocable election while judge is in office) then a payment to the surviving spouse is payable upon death. The spouse would receive a monthly allowance equal to the allowance paid to the judge had he or she retired immediately preceding death.

---

**Post Retirement Death Benefit**

*If the Judge elected the Defined Benefit Plan* - The surviving spouse of a retired judge who elected an Optional Settlement in the defined benefit plan receives one of four options:

- Option 1 - return of unused accumulated contributions;
- Option 2 - 4 - the Optional Settlement Benefit, the amount varies based on the option chosen by the member.

*If the Judge elected the Monetary Credit Plan* - If the full amount of monetary credits was received in a lump sum, there are no survivor benefits. If the judge elected the Monetary Credit Plan with benefits paid as an annuity, the spouse receives the amount based on the option chosen at retirement.

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**Cost-Of-Living Adjustments (COLA)**

*If the Judge elected the Defined Benefit Plan* - The retirement allowance of retired judges who have elected the defined benefit plan will be adjusted every January after the judge has been retired six months. The adjustment is based on the United States city average of the "Consumer Price Index For All Urban Consumers," as published by the United States Bureau Of Statistics. No adjustment shall be made unless the cost-of-living increase equals or exceeds one percent. Further, the allowance shall not be increased more than three percent in a single year. Increases shall be compounded.

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## **Appendix C – GASB Statement No. 27**

### **GASB 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, 2012 to June 30, 2013 has been determined by an actuarial valuation of the plan as of June 30, 2011. The contribution rate for the indicated period is 22.837% of payroll. In order to calculate the dollar value of the ARC for inclusion in financial statements prepared as of June 30, 2013, 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, 2012 to June 30, 2013. The employer and the employer's auditor are responsible for determining the NPO and the APC.

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**Retirement  
Program  
Assumptions**

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

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.

**Retirement Program**

Valuation Date	June 30, 2011
Actuarial Cost Method	Entry Age Normal Cost Method
Amortization Method	Level Percent of Payroll
Average Remaining Period	20 Years as of the Valuation Date
Asset Valuation Method	15 Year Smoothed Market
Actuarial Assumptions	
Investment Rate of Return	7.00% (net of administrative expenses)
Projected Salary Increases	3.00%
Inflation	2.75%
Payroll Growth	3.00%
Individual Salary Growth	3.00%

**Judges' Retirement System II**  
**Actuarial Valuation – June 30, 2011**

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

Valuation Date	Accrued Liability (a)	Actuarial Value of Assets (AVA) (b)	Unfunded Liability (UL) (a)-(b)	Funded Ratios		Annual Covered Payroll (c)	UL As a % of Payroll [(a)-(b)]/(c)
				(AVA) (b)/(a)	Market Value		
06/30/11	\$ 609,562,110	\$ 561,475,530	\$ 48,086,580	92.1%	94.5%	\$ 229,650,030	20.9%
06/30/10	520,687,470	461,071,403	59,616,067	88.6%	81.1%	212,663,194	28.0%
06/30/09	450,547,115	378,691,893	71,855,222	84.1%	70.0%	198,793,201	36.1%
06/30/08	366,513,989	334,903,486	31,610,503	91.4%	88.8%	175,346,032	18.0%
06/30/07	294,982,560	267,604,460	27,378,100	90.7%	98.6%	156,251,856	17.5%

## Appendix D – Risk Analysis

**Investment  
Return  
Scenario  
Analysis**

As of March 2012, the investment return for fiscal year 2011-2012 was 4.68%. Note that this return is before the close of the fiscal year and does not take into account administrative expenses that must be paid from the fund. The final return information for the fund will not be available until October 2012. The preliminary 4.68% return for the 2011-2012 fiscal year is lower than the assumed rate of return. However, the lower return is not anticipated to raise the employer contribution rate for 2013-2014 by more than a few hundredths of a percent. For purposes of projecting future employer rates, this report assumes a 4.00% investment return for fiscal year 2011-2012.

The investment return realized during a fiscal year first affects the contribution rate for the fiscal year 1 year later. Specifically, the investment return for 2011-2012 will first be reflected in the June 30, 2012 actuarial valuation that will be used to set the 2013-2014 employer contribution rates, the 2012-2013 investment return will first be reflected in the June 30, 2013 actuarial valuation that will be used to set the 2014-2015 employer contribution rates and so forth.

Based on a 4.00% investment return for fiscal year 2011-2012 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 2013-2014, the effect on the 2013-2014 Employer Rate is as follows:

<b>Estimated 2013-2014 Employer Rate</b>	<b>Estimated Increase in Employer Rate between 2012-2013 and 2013-2014</b>
22.9%	0.1%

As part of this report, a scenario analysis was performed to determine the effects of various investment returns during fiscal years 2012-2013, 2013-2014 and 2014-2015 on the 2014-2015, 2015-2016 and 2016-2017 employer rates. Once again, the projected rate increases assume that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur.

Five different 2012-2015 investment return scenarios were selected.

- The first scenario is what one would expect if the markets were to give us a 5<sup>th</sup> percentile return from July 1, 2012 through June 30, 2015. The 5<sup>th</sup> percentile return corresponds to a net investment return of (4.00%) for each of the 2012-2013, 2013-2014 and 2014-2015 fiscal years.
- The second scenario is what one would expect if the markets were to give us a 25<sup>th</sup> percentile return from July 1, 2012 through June 30, 2015. The 25<sup>th</sup> percentile return corresponds to a net investment return of 2.00% for each of the 2012-2013, 2013-2014 and 2014-2015 fiscal years.

**Judges' Retirement System II**  
**Actuarial Valuation – June 30, 2011**

**Investment  
Return  
Scenario  
Analysis  
(continued)**

- The third scenario assumed the return for 2012-2013, 2013-2014, 2014-2015 would be our assumed 7.00% net investment return which represents about a 54<sup>th</sup> percentile event.
- The fourth scenario is what one would expect if the markets were to give us a 75<sup>th</sup> percentile return from July 1, 2012 through June 30, 2015. The 75<sup>th</sup> percentile return corresponds to a net investment return of 11.00% for each of the 2012-2013, 2013-2014 and 2014-2015 fiscal years.
- Finally, the last scenario is what one would expect if the markets were to give us a 95<sup>th</sup> percentile return from July 1, 2012 through June 30, 2015. The 95<sup>th</sup> percentile return corresponds to a net investment return of 17.50% for each of the 2012-2013, 2013-2014 and 2014-2015 fiscal years.

The table below shows the estimated changes in the Employer rate for 2014-2015, 2015-2016 and 2016-2017 under the five different scenarios.

2012-2015 Investment Return Scenario	Estimated Change in Employer Rate Between Year Shown and Preceding Year			Total Estimated Increase in Employer Rate between 2013-2014 and 2016-2017
	2014-2015	2015-2016	2016-2017	
(4.00%) (5 <sup>th</sup> percentile)	23.0%	23.4%	25.4%	2.5%
2.00% (25 <sup>th</sup> percentile)	23.0%	23.1%	23.3%	0.4%
7.00%	22.9%	22.9%	22.9%	0.0%
11.00% (75 <sup>th</sup> percentile)	22.9%	22.8%	22.7%	(0.2%)
17.50% (95 <sup>th</sup> percentile)	22.8%	22.6%	22.2%	(0.7%)

**Discount Rate  
Sensitivity**

The following analysis looks at the 2012-2013 employer contribution rates under two different discount rate scenarios. Shown below are the employer contribution rates assuming discount rates that are 1% lower and 1% higher than the current valuation discount rate. This analysis gives an indication of the potential required employer contribution rates if the discount rate was changed to 6.00% or 8.00% over the long-term.

This type of analysis gives the reader a sense of the long-term risk to the employer contribution rates.

2012-2013 Employer Contribution Rate			
As of June 30, 2011	6.00% Discount Rate (-1%)	7.00% Return (assumed rate)	8.00% Discount Rate (+1%)
Normal Cost	26.8%	21.4%	17.2%
UAL Payment	4.0%	1.4%	(1.0%)
Total	30.8%	22.8%	16.2%

## Appendix E – Glossary of Actuarial Terms

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**Accrued Liability**

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

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**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.

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**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.

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**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.

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**Amortization Bases** Separate payment schedules for different portions of the unfunded liability. The total unfunded liability (or side fund) 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 liability (principal) due to amendments, actuarial assumption changes, or methodology changes and gains and losses. Payment periods are determined by Board policy and vary based on the cause of the change.

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

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**Annual Required Contributions (ARC)** The employer's periodic required annual contributions to a defined benefit pension plan, 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 the same as the date of hire.

(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 is at 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.)

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**Excess Assets** When a plan or pool's actuarial value of assets is greater than its accrued liability, the difference is the plan or pool's excess assets. A plan with excess assets is said to be overfunded. The result is that the plan or pool can temporarily reduce future contributions.

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<b>Entry Age Normal Cost Method</b>	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 produce stable employer contributions in amounts that increase at the same rate as the employer's payroll (i.e. level % of payroll).
<b>Fresh Start</b>	When multiple amortization bases are collapsed into one base and amortized over a new funding period. At CalPERS, fresh starts are used to avoid inconsistencies that would otherwise occur.
<b>Funded Status</b>	A measure of how well funded a plan or risk pool is. Or equivalently, how "on track" a plan or risk pool is with respect to assets vs. accrued liabilities. We calculate a funded ratio by dividing the actuarial value of assets by the 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.
<b>Normal Cost</b>	The annual cost of service accrual for the upcoming fiscal year for active employees. The normal cost plus surcharges should be viewed as the long term contribution rate.
<b>Pension Actuary</b>	A person who is responsible for the calculations necessary to properly fund a pension plan.
<b>Prepayment Contribution</b>	A payment made by the employer to reduce or eliminate the year's required employer contribution.
<b>Present Value of Benefits</b>	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.

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**Rolling  
Amortization  
Period**

An amortization period that remains the same each year or does not decline.

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**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.

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**Unfunded  
Liability**

When a plan or pool's actuarial value of assets is less than its accrued liability, the difference is the plan or pool's unfunded liability. The plan or pool will have to temporarily increase contributions.