

**Benefits, Compensation and HR Consulting** 

# **University of California Retirement Plan**

Actuarial Valuation Report as of July 1, 2012

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October 12, 2012

Mr. Dwaine B. Duckett Vice President, Human Resources University of California 1111 Franklin Street, 5<sup>th</sup> Floor Oakland, California 94607

Dear Vice President Duckett:

We are pleased to submit this Actuarial Valuation Report as of July 1, 2012 for the University of California Retirement Plan ("UCRP" or "Plan"). It summarizes the actuarial data used in the valuation, determines total funding policy contribution rates for the 2013-2014 Plan Year and analyzes the preceding year's experience.

This actuarial valuation has been completed in accordance with generally accepted actuarial principles and practices. The census and financial information on which our calculations were based was provided by the UC HR Staff. That assistance is gratefully acknowledged. The actuarial calculations were completed under the supervision of John Monroe, ASA, MAAA, Enrolled Actuary.

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

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

We look forward to reviewing this report at the November 2012 Regents meeting and to answering any questions.

Sincerely,

THE SEGAL COMPANY

By:

Paul Angelo, FSA, MAAA, EA, FCA Senior Vice President and Actuary John Monroe, ASA, MAAA, EA Vice President and Associate Actuary

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#### **Purpose**

This report has been prepared by The Segal Company to present a valuation of the University of California Retirement Plan ("UCRP" or "Plan") as of July 1, 2012. The valuation was performed to determine if the assets and contributions are sufficient to provide the prescribed benefits. The contribution requirements presented in this report are based on:

- The benefit provisions of the Plan,
- The characteristics of covered active members, terminated vested members, retired members, disabled members and beneficiaries as of July 1, 2012,
- The assets of the Plan as of June 30, 2012,
- The funding policy adopted by the Regents,
- Economic assumptions regarding future salary increases and investment earnings; and
- Other actuarial assumptions, regarding member terminations, retirement, death, etc.

#### Significant Issues in Valuation Year

#### **CONTRIBUTIONS**

Reference: Pg. 10

• The total funding policy contribution rate increased from 26.35% of covered payroll to 28.56% of covered payroll. The increase in the total funding policy contribution rate was mainly due to the investment loss on the actuarial value of assets. This total funding policy contribution rate is for the 2013-2014 Plan Year and applies to the non-laboratory segment of UCRP (i.e., campuses, medical centers and Hastings College of Law). Contributions for the laboratories are subject to the terms of the University's contracts with the Department of Energy. More information on the various UCRP segments can be found in Section 1, page vii. Unless otherwise noted, results shown in this report are for all of UCRP.

#### **Significant Issues in Valuation Year (continued)**

Reference: Pg. 50

- For the Plan Year beginning July 1, 2012, the University contribution rate is 10% of covered payroll while the rate for most members is 5% of covered payroll (less \$19 per month). In November 2011, the Regents approved increases in these rates for the Plan Year beginning July 1, 2013. The University rate will increase to 12% of covered payroll while the rate for most members will increase to 6.5% of covered payroll (less \$19 per month). The member rates shown are for non-Safety members in the current UCRP tier. Member rates are subject to collective bargaining for represented employees.
- In December 2010, the Regents delegated to the President discretion to fully fund the modified Annual Required Contribution (ARC) for the Plan from fiscal year 2010-2011 through 2018-2019 and the full ARC thereafter. The modified ARC consists of the normal cost plus interest on the Unfunded Actuarial Accrued Liability (UAAL). In March 2011, the Regents granted authority to transfer up to \$2.1 billion from the UC Short-Term Investment Pool (STIP) to UCRP during 2010-2011 and 2011-2012 to fully fund the modified ARC. During 2011-2012, employer contributions included \$0.9 billion that was contributed to the Plan at the President's discretion.

#### **ASSETS**

Reference: Pgs. 7 and 8

• During the 2011-2012 Plan Year, the rate of return on the market value of assets was approximately 0.3%. Based on a partial recognition of this return as well as prior investment experience, the rate of return on the actuarial value of assets was 0.9%, which is less than the expected return of 7.5%.

Reference: Pg. 4

- The total unrecognized investment loss as of July 1, 2012 is about \$1.16 billion as compared to an \$885 million unrecognized loss in the previous valuation. This investment loss will be recognized in the determination of the actuarial value of assets for valuation purposes over the next few years. This means that, if the Plan earns the assumed rate of investment return of 7.50% per year (net of investment expenses) on a **market value** basis, then the deferred losses will be recognized over the next few years as shown in the footnote on Chart 6.
- This actuarial valuation report as of July 1, 2012 is based on financial information as of that date. Changes in the value of assets subsequent to that date, to the extent that they exist, are not reflected. Declines in asset values will increase the actuarial cost of the Plan, while increases will decrease the actuarial cost of the Plan.

#### **Significant Issues in Valuation Year (continued)**

#### **FUNDED RATIO**

Reference: Pgs. 11 and 22

• The Plan's funded ratio on an actuarial value basis decreased from 82.5% as of July 1, 2011 to 78.7% as of July 1, 2012. This decrease in funded ratio is mainly a result of the investment loss on the actuarial value of assets. The Plan is in an underfunded position as the actuarial accrued liability exceeds the actuarial value of assets by \$11.7 billion. Information on the funded ratio and unfunded actuarial accrued liability for each UCRP segment can be found on page vii.

#### CHANGE IN PLAN PROVISIONS

In December 2010, the Regents approved a new tier ("2013 Tier") of UCRP benefits for employees hired (or in some cases rehired) on or after July 1, 2013, which would increase the early retirement age from 50 to 55, but retain many of the current features of UCRP. The 2013 Tier would not offer lump sum cashouts, inactive member cost-of-living adjustments (COLAs), or subsidized survivor annuities for spouses and domestic partners. The initial member rate for the 2013 Tier is 7% of covered payroll. The University rate is uniform across all tiers and will be 12% of covered payroll. For represented employees, this change is subject to collective bargaining. This change has <u>not</u> been reflected in this valuation, though it would not have any impact since it only affects future employees.

#### **FUTURE EXPECTATIONS**

- The unrecognized investment losses of \$1.16 billion represent about 3% of the market value of assets. Unless offset by future investment gains or other favorable experience, the future recognition of the \$1.16 billion in market losses is expected to have an impact on the Plan's future funded ratio and future total funding policy contributions. This potential impact may be illustrated as follows:
  - If the deferred losses were recognized immediately in the actuarial value of assets, the funded percentage would decrease from 78.7% to 76.5%.
  - If the deferred losses were recognized immediately in the actuarial value of assets, the total funding policy contribution would increase from 28.56% of covered payroll to 29.51% of covered payroll.
- Since the sum of the approved contributions and the amount transferred is less than the total funding policy contributions, this will create additional future actuarial losses that will lead to further increases in future total funding policy contributions. Since the total funding policy contributions are reported as the Annual Required Contribution (ARC) under Governmental Accounting Standards (GAS) 25 and 27, the accumulated total of these contribution losses are also reported under GAS 27 as a Net Pension Obligation (NPO).

#### **Significant Issues in Valuation Year (continued)**

#### **DEMOGRAPHIC EXPERIENCE**

Reference: Pgs. 13 and 14

- Overall, the number of active members increased by 1.1% from 115,568 as of July 1, 2011 to 116,888 as of July 1, 2012. The Plan has 58,934 members currently receiving benefits, an increase of 4.7% from 2011. Total monthly benefits in pay status increased by 8.1%, to a level of \$177 million. There are also 67,318 terminated members in the Plan who are entitled to future benefits. Within this group of terminated members there are 32,873 terminated vested members who are entitled to a deferred or immediate vested benefit and 27,582 terminated nonvested members who are entitled to a refund of member contributions or payment of their Capital Accumulation Provision (CAP) balance. There are also 6,863 members that transferred to the LANS or LLNS defined benefit plans who will be entitled to a CAP balance payment from UCRP after they separate from employment with LANS or LLNS.
- The actual average increase in salary for UCRP members that were active in both this valuation and the previous valuation was close to the average assumed increase of approximately 5.1% (based on the 2011 valuation).

#### DISCLOSURES AND REPORTING

- Reference: Pg. 12
- The California Actuarial Advisory Panel (CAAP) has recently adopted a set of model disclosure elements recommended
  for actuarial valuation reports for public retirement systems in California. Information has been added to this valuation
  report consistent with the recommendations regarding basic disclosure elements. In particular, we are now including new
  information regarding measures of plan volatility.
- The Governmental Accounting Standards Board (GASB) recently approved two new Statements affecting the reporting of pension liabilities for accounting purposes. Statement 67 replaces Statement 25 and is for plan reporting. Statement 68 replaces Statement 27 and is for employer reporting. It is important to note that the new GASB rules only redefine pension expense for financial reporting purposes, and do not apply to contribution amounts for actual pension funding purposes. Employers and plans can still develop and adopt funding policies under current practices. Because these new Statements are not effective until the fiscal year ending June 30, 2014 for Plan reporting and the fiscal year ending June 30, 2015 for employer reporting, the financial reporting information in this report continues to be prepared in accordance with Statements 25 and 27.

Summary of Key Valuation Results		
	2012 (\$ in 000s)	2011 (\$ in 000s)
Total funding policy contributions:		
Percentage of payroll <sup>(1)</sup>	28.56%	26.35%
Estimated annual dollar amount <sup>(2)</sup>	\$2,475,295	\$2,164,793
Funding elements for Plan Year beginning July 1:		
Normal cost (beginning of year)	\$1,499,751	\$1,403,693
Percentage of payroll (beginning of year)	17.44%	17.20%
Percentage of payroll (middle of year)	18.09%	17.83%
Market value of assets (MVA)	\$41,806,485	\$41,872,655
Actuarial value of assets (AVA)	42,965,028	42,757,271
Actuarial accrued liability (AAL)	54,619,620	51,831,306
Unfunded/(Overfunded) actuarial accrued liability on AVA basis	11,654,592	9,074,035
Unfunded/(Overfunded) actuarial accrued liability on MVA basis	12,813,135	9,958,651
Funded ratio on actuarial value basis (AVA / AAL)	78.7%	82.5%
Funded ratio on market value basis (MVA / AAL)	76.5%	80.8%
Governmental Accounting Standard (GAS) 25 for Plan Year beginning July 1:		
Annual required contributions (ARC) <sup>(3)</sup>	N/A	\$2,062,022
Actual contributions		1,851,459
Percentage contributed	N/A	89.8%
Net Pension Obligation (as of June 30)		\$1,919,321
Demographic data for Plan Year beginning July 1:		
Number of retired members and beneficiaries <sup>(4)</sup>	58,934	56,296
Number of vested terminated members <sup>(5)</sup>	67,318	60,903
Number of active members	116,888	115,568
Average covered compensation (actual dollars)	\$81,637	\$78,264

<sup>(1)</sup> Total funding policy contributions are for the Plan Year starting one year after the date of the actuarial valuation. The total funding policy contributions shown are for the non-laboratory segment of UCRP and exclude contributions for the Lawrence Berkeley National Laboratory Segment, the Lawrence Livermore National Laboratory Retained Segment and the Los Alamos National Laboratory Retained Segment of UCRP. Page vii shows those contributions by each segment. The Normal Cost plus interest on the July 1, 2012 UAAL represents 26.79% of covered payroll.

<sup>(2)</sup> Based on estimated covered payroll of \$8,667,001 (also in thousands) for the 2013-2014 Plan Year and \$8,215,534 for the 2012-2013 Plan Year. Actual contributions are set by the Regents and will be made based on actual payroll.

<sup>(3)</sup> The ARC for the Plan Year ending June 30, 2013 will be determined at the end of that year based on actual covered payroll.

<sup>(4)</sup> Excludes deferred beneficiaries who are entitled to future benefits.

<sup>(5)</sup> Includes terminated nonvested members due a refund of member contributions or CAP balance payment and members that transferred to the LANS or LLNS defined benefit plans who will be entitled to a CAP balance payment from UCRP after they separate from employment with LANS or LLNS.

#### FIVE-YEAR HISTORY OF TOTAL FUNDING POLICY CONTRIBUTIONS AND FUNDED STATUS

Effective with the July 1, 2008 valuation, a funding policy was adopted that determines total funding policy contributions based on the Plan's normal cost adjusted by an amortization of any surplus or underfunding.

The total funding policy contribution rate is effective for the Plan Year starting one year after the date of the actuarial valuation and applies to the non-laboratory segment of UCRP. The total funding policy contribution rate for the 2013-2014 Plan Year is based on this valuation and is 28.56% of payroll.

For the Plan Year beginning July 1, 2012, the University contribution rate is 10% of covered payroll while the rate for most members is 5% of covered payroll (less \$19 per month). In November 2011, the Regents approved increases in these rates for the Plan Year beginning July 1, 2013. The University rate will increase to 12% of covered

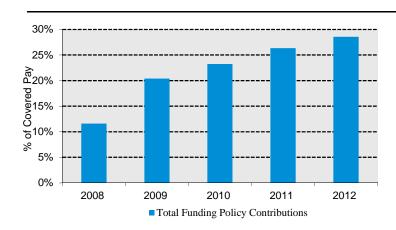
payroll while the rate for most members will increase to 6.5% of covered payroll (less \$19 per month).

The Plan's funded percentage (actuarial value of assets divided by actuarial accrued liability) over the past five years is shown below:

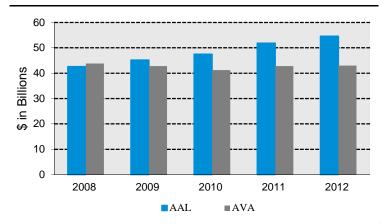
Plan Year	AAL	AVA	Funded
Beg. 7/1	\$ in Billions	\$ in Billions	<u>Percentage</u>
2008	\$42.6	\$43.8	103%
2009	45.2	42.8	95
2010	47.5	41.2	87
2011	51.8	42.8	82
2012	54.6	43.0	79

The actuarial accrued liability has shown a steady increase while the actuarial value of assets has remained relatively level as prior investment losses are recognized over a five-year period and contributions have recently restarted.

Five-Year History of Total Funding Policy Contributions Based on July 1 Actuarial Valuation Date



Five-Year History of Actuarial Accrued Liability and Actuarial Value of Assets for Plan Years Beginning July 1



segment of UCRP). The second graph shows the five-year history of the funded status – actuarial accrued liability versus the actuarial value of assets.

The first graph shows

a five-year history of

policy contributions (non-laboratory

the total funding

**SECTION 1:** Executive Summary for the University of California Retirement Plan

#### Summary of UCRP July 1, 2012 Valuation Results by Segment (\$ in 000s)

	Total UCRP	Campus and Medical Centers*	Lawrence Berkeley National Laboratory (LBNL)	Lawrence Livermore National Laboratory (LLNL)	Los Alamos National Laboratory (LANL)
Normal Cost (beginning of year)	\$1,499,751	\$1,453,604	\$46,147	\$0	\$0
Market value of assets	41,806,485	34,765,182	1,645,636	2,882,195	2,513,472
Actuarial value of assets (AVA)	42,965,028	35,728,600	1,691,232	2,962,052	2,583,143
Actuarial accrued liability (AAL)	54,619,620	45,762,640	1,811,301	3,843,573	3,202,105
Unfunded/(Overfunded) actuarial accrued liability on AVA basis	11,654,592	10,034,040	120,069	881,521	618,962
Unfunded/(Overfunded) actuarial accrued liability on MVA basis	12,813,135	10,997,458	165,665	961,378	688,633
Funded Ratio on AVA basis (AVA/AAL)	78.7%	78.1%	93.4%	77.1%	80.7%
Funded Ratio on MVA basis (MVA/AAL)	76.5%	76.0%	90.9%	75.0%	78.5%
Estimated Covered Payroll for 2012-2013 Plan Year	\$8,598,114	\$8,333,655	\$264,459	\$0	\$0
Estimated Covered Payroll for 2013-2014 Plan Year	\$8,942,039	\$8,667,001	\$275,038	\$0	\$0
Total funding policy contributions**					
Percent of payroll***		28.56%	28.56%	N/A	N/A
Estimated dollar amount in 000s		\$2,475,295	\$78,551	N/A	N/A
Required Contractual Contributions****					
Estimated dollar amount in 000s		N/A	N/A	\$231,825	\$141,529

<sup>\*</sup> Includes Hasting College of Law

Note: Results may not add due to rounding.

<sup>\*\*</sup> All total funding policy contributions are based on valuation results as of July 1, 2012. Please see Section 2, page 10 for more detailed information on this calculation.

<sup>\*\*\*</sup> The total funding policy contributions shown for the campus and medical centers and LBNL segments are for the Plan Year beginning July 1, 2013. Actual contributions for these two segments will be set by the Regents.

<sup>\*\*\*\*</sup> The contributions shown for the LLNL and LANL Retained Segments are required for the Plan Year beginning July 1, 2012 under the terms of the University's contracts with the Department of Energy, and are due by February 28, 2014.

#### A. MEMBER DATA

The Actuarial Valuation and Review considers the number and demographics of covered members, including active members, vested terminated members, retired members, disabled members and beneficiaries. This section presents a summary of significant statistical data on these participant groups.

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

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

CHART 1 Member Population: 2003 – 2012

Year Beginning July 1	Active Members	Terminated Vested Members*	Retired Members, Disabled Members and Beneficiaries**	Ratio of Retirees to Actives
2003	121,351	31,262	37,867	0.31
2004	123,717	39,874	39,738	0.32
2005	124,642	47,123	41,477	0.33
2006	122,317	52,548	45,442	0.37
2007	118,885	59,056	47,682	0.40
2008	114,242	64,566	50,171	0.44
2009	115,745	54,883	51,653	0.45
2010	114,928	55,037	53,902	0.47
2011	115,568	60,903	56,296	0.49
2012	116,888	67,318	58,934	0.50

<sup>\*</sup> Includes terminated nonvested members due a refund of member contributions or CAP balance payment and members that transferred to the LANS or LLNS defined benefit plans who will be entitled to a CAP balance payment from UCRP after they separate from employment with LANS or LLNS.

<sup>\*\*</sup> Excludes deferred beneficiaries who are entitled to future benefits.

#### **Active Members**

Plan costs and liabilities are affected by the age, service credit and covered compensation of active members. In this year's valuation, there are 116,888 active members with an average age of 45.0 years, average service credit of 9.6 years and average covered compensation of \$81,637.

#### **Inactive Members**

In this year's valuation, there were 67,318 terminated members. Within this group of terminated members there are 32,873 members with a vested right to a deferred or immediate vested benefit and 27,582 terminated nonvested members who are entitled to a return of their member contributions or a distribution of their CAP balance. There are also 6,863 members that transferred to the LANS or LLNS defined benefit plans who will be entitled to a CAP balance payment from UCRP after they separate from employment with LANS or LLNS.

These graphs show a distribution of active members by age and by service credit. In Chart 3 there are 249 members who have 40 or more years of service credit.

CHART 2
Distribution of Active Members by Age as of July 1, 2012

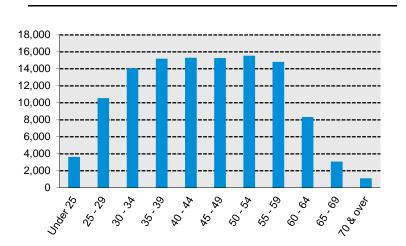
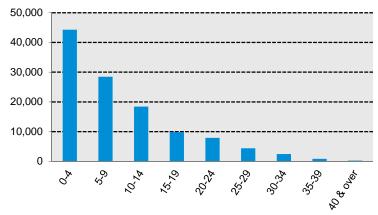


CHART 3
Distribution of Active Members by Service Credit as of July 1, 2012



## **Retired Members, Disabled Members and Beneficiaries**

As of July 1, 2012, 49,675 retired members, 2,000 disabled members and 7,259 beneficiaries (excludes 97 deferred beneficiaries) were receiving total monthly benefits of \$176,598,576.

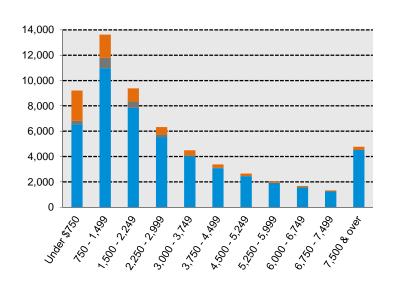
These graphs show a distribution of the current retired members, disabled members and beneficiaries based on their monthly benefit and age.

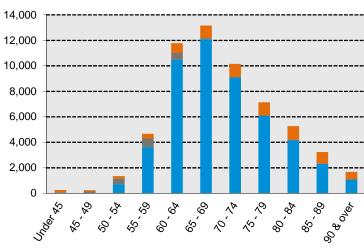
#### **CHART 4**

Distribution of Retired Members, Disabled Members and Beneficiaries by Monthly Benefit as of July 1, 2012

#### **CHART 5**

Distribution of Retired Members, Disabled Members and Beneficiaries by Age as of July 1, 2012





BeneficiaryDisabled Member

Retired Member

#### **B. FINANCIAL INFORMATION**

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

Retirement plan assets change as a result of the net impact of these income and expense components. Additional financial information for UCRP, including a summary of these transactions for the valuation year, is presented in Section 3, Exhibits D and E.

It is desirable to have level and predictable plan costs from one year to the next. For this reason, The Regents have approved an asset valuation method for UCRP that smoothes market value investment gains and losses over a five-year period. Under this valuation method, the full value of market fluctuations is not recognized in a single year and, as a result, the asset values and the plan costs are more stable.

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

# CHART 6 Determination of Actuarial Value of Assets for Year Ended June 30, 2012

					(\$ in 000s)
1.	Market value of assets				\$41,806,485
2.	Calculation of unrecognized return*	Original Amount*	Deferral Percentage	Unrecognized Return**	
	(a) Year ended June 30, 2012	(\$3,017,759)	80%	(\$2,414,207)	
	(b) Year ended June 30, 2011	4,552,513	60%	2,731,508	
	(c) Year ended June 30, 2010	1,803,846	40%	721,538	
	(d) Year ended June 30, 2009	(10,986,902)	20%	(2,197,382)	
	(e) Year ended June 30, 2008	(6,070,876)	0%	0	
	(f) Total unrecognized return***				(1,158,543)
3.	Actuarial value of assets: (1) - (2f)				42,965,028
4.	Actuarial value as a percentage of market value: $(3) \div (1)$				102.8%

<sup>\*</sup> Total return minus expected return on a market value basis

<sup>\*\*\*</sup>Deferred return as of June 30, 2012 recognized in each of the next four years:

(a)	Amount recognized during 20.	12/2013	(\$1,529,662)
(b)	Amount recognized during 20.	13/2014	667,720
(c)	Amount recognized during 20.	14/2015	306,951
( <i>d</i> )	Amount recognized during 20.	15/2016	(603,552
	Total		(\$1,158,543)

<sup>\*\*</sup> Recognition at 20% per year over 5 years

Both the actuarial value and market value of assets are representations of the Plan's financial status. As investment gains and losses are gradually taken into account, the actuarial value of assets tracks the market value of assets. The actuarial value of assets is significant because UCRP's liabilities are compared to the actuarial value of assets to determine what portion, if any, remains unfunded or overfunded. Amortization of any unfunded or overfunded liability is an important element in determining future contribution rates.

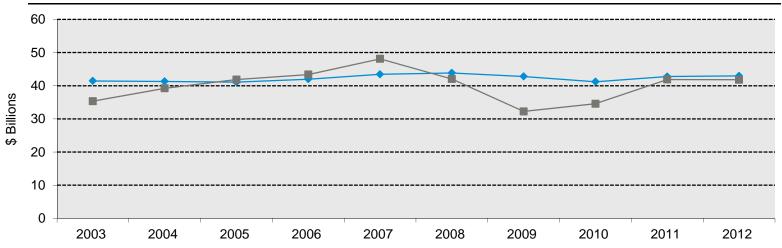
This chart shows the change in the actuarial value of assets versus the market value over the past ten years.

— Actuarial Value

── Market Value

CHART 7

Actuarial Value of Assets vs. Market Value of Assets for Years Ended June 30, 2003 – 2012



#### C. ACTUARIAL EXPERIENCE

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

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

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

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

The components of the total loss of \$3.0 billion are shown below. The net experience gain from sources other than investments and contributions was 0.4% of the actuarial accrued liability. A discussion of the major components of the actuarial experience is on the following pages.

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

# CHART 8 Actuarial Experience for Year Ended June 30, 2012

		(\$ in 000s)
1.	Net (loss) from contributions less than expected under funding policy	(\$424,079)
2.	Net (loss) from investments*	(2,810,182)
3.	Net gain from salary increases less than assumed	3,604
4.	Net gain from other experience**	<u>212,019</u>
5.	Net experience (loss): $(1) + (2) + (3) + (4)$	(\$3,018,638)

<sup>\*</sup> Details in Chart 9

<sup>\*\*</sup>See Section 3, Exhibit F. Does not include the effect of Plan or assumption changes, if any.

#### **Investment Rate of Return**

A major component of projected asset growth is the assumed rate of return. The assumed return should represent the expected long-term rate of return, based on UCRP's investment policy. For valuation purposes, the assumed rate of return is 7.50%. As shown below, the actual rate of return on the actuarial value of assets for the 2011-2012 Plan Year was 0.91%.

Since the actual return for the year was less than the assumed return, the Plan experienced an actuarial loss during the year ended June 30, 2012 with regard to its investments, when measured based on the actuarial value of assets. The amount of this loss is derived below.

This chart shows the loss due to investment experience.

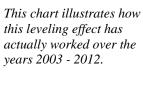
# CHART 9 Investment Experience for Year Ended June 30, 2012

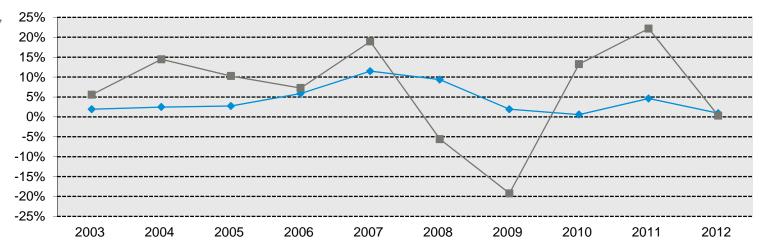
	June 30, 2012
	(\$ in 000s)
. Actual return on actuarial value of assets	\$389,787
2. Average actuarial value of assets	42,666,256
Actual rate of return: $(1) \div (2)$	0.91%
. Assumed rate of return	7.50%
5. Expected return: (2) x (4)	3,199,969
5. Actuarial loss: (1) – (5)	(\$2,810,182)

In the preceding subsection B we described the actuarial asset valuation method that gradually takes into account fluctuations in the market value rate of return. The effect of this method is to stabilize the actuarial rate of return, which contributes to leveling pension plan costs. This effect is clear in the chart below, where the year-to-year returns on actuarial value are less volatile than the returns on market value.

CHART 10

Market and Actuarial Rates of Return for Years Ended June 30, 2003 - 2012





Actuarial Value

**─** Market Value

## **Other Experience**

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

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

The net gain from this other experience for the year ended June 30, 2012 amounted to \$216 million which is 0.4% of the actuarial accrued liability.

#### D. TOTAL FUNDING POLICY CONTRIBUTION

Effective with the July 1, 2008 valuation, a funding policy was adopted that determines total funding policy contributions based on the Plan's normal cost adjusted by an amortization of any surplus (overfunding) or underfunding, with contributions starting for the Plan Year beginning July 1, 2009.

The total funding policy contribution is based on various amortization periods for different components of the UAAL as of July 1, 2012 as shown in Section 3, Exhibit H.

The calculation of the total funding policy contribution rates for the current and prior valuation are shown below. This total funding policy contribution rate applies to the non-laboratory segment of UCRP (i.e., campuses, medical centers and Hastings College of Law). Contributions for the laboratories are subject to the terms of the University's contracts with the Department of Energy. For more information on the various UCRP segments please see Section 1, page vii. For more details on the UCRP funding policy please see Section 4, Exhibit VII, page 52.

The total funding policy contribution rates as of July 1, 2012 are based on all of the data described in the previous sections, the actuarial assumptions described in Section 4 and the Plan provisions adopted at the time of preparation of the Actuarial Valuation. They include all changes affecting future costs, adopted benefit changes, actuarial gains and losses and changes in the actuarial assumptions.

The chart shows the calculation of the total funding policy contribution for the non-laboratory segment of UCRP.

CHART 11
Total Funding Policy Contribution (Non-Laboratory Segment of UCRP)

		Actuarial Valuation Date				
		July 1, 201	12 (\$ in 000s)	July 1, 201	l1 (\$ in 000s)	
		Amount	% of Payroll	Amount	% of Payroll	
1.	Normal cost (beginning of year)	\$1,453,604	17.44%	\$1,357,825	17.19%	
2.	Actuarial value of assets	35,728,600		35,315,069		
3.	Actuarial accrued liability	45,762,640		43,011,984		
4.	Unfunded/(Overfunded) actuarial accrued liability	10,034,040		7,696,915		
5.	Amortization of Unfunded/(Overfunded) actuarial accrued liability*	842,619	10.11%	649,050	8.22%	
6.	Total funding policy contribution rate, before timing adjustment: $(1) + (5)$		27.55%		25.41%	
7.	Total funding policy contribution rate, adjusted for timing**		<u>28.56%</u>		<u>26.35%</u>	
8.	Estimated total funding policy contribution amount***	\$2,475,295		\$2,164,793		

<sup>\*</sup> Layered amortization of unfunded actuarial accrued liability (UAAL). See Section 3, Exhibit H for more details.

<sup>\*\*</sup> Total funding policy contribution includes an adjustment to account for contributions being made throughout the year. No additional adjustment is included to account for contributions not starting until the beginning of the next Plan Year.

<sup>\*\*\*</sup> The total funding policy contributions shown are for the non-laboratory segment of UCRP and are based on estimated covered payroll of \$8,667,001 (also in thousands) for the 2013-2014 Plan Year and \$8,215,534 for the 2012-2013 Plan Year. Actual contributions are set by the Regents and will be made based on actual payroll.

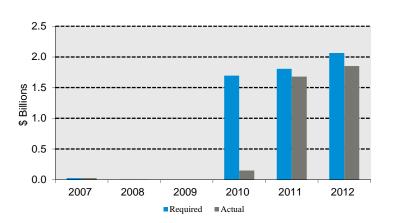
#### E. INFORMATION REQUIRED BY THE GASB

Governmental Accounting Standards Board (GASB) reporting information provides standardized information for comparative purposes of governmental pension plans. The information required is set forth in Governmental Accounting Standards (GAS) 25 and 27. This information allows a reader of the financial statements to compare the funding status of one governmental plan to another on relatively equal terms.

Critical information to the GASB is the historical comparison of the GASB required contributions to the actual contributions. This comparison demonstrates whether a plan is being funded on an actuarially sound basis and in accordance with the GASB funding requirements. Chart 12 below presents a graphical representation of this information for the Plan.

These graphs show key elements of the GASB information.

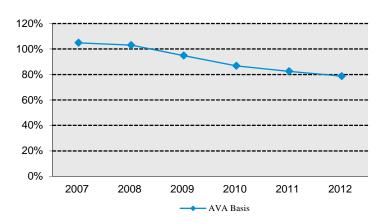
CHART 12
Required Versus Actual Contributions



The other critical piece of information regarding the Plan's financial status is the funded ratio. This ratio compares the assets of the Plan to the liabilities of the Plan as calculated under GASB Standards. High ratios indicate a well-funded plan with assets sufficient to cover the Plan's accrued liabilities. Lower ratios may indicate recent changes to benefit structures, funding of the plan below actuarial requirements, poor asset performance, or a variety of other changes. This information is shown in Chart 13.

The details regarding the calculations of these values and other GASB numbers may be found in Section 4, Exhibits II through IV.

CHART 13
Funded Ratio (Plan Year Beginning July 1)



#### F. VOLATILITY RATIOS

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

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

For UCRP, the current AVR is about 4.9. This means that a 1% asset gain/(loss) (relative to the assumed investment return) translates to about 4.9% of one-year's payroll. Since UCRP amortizes actuarial gains and losses over a period of 30 years, there would be a 0.4% of payroll decrease/(increase) in the total funding policy contribution for each 1% asset gain/(loss).

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

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

For UCRP, the current LVR is about 6.4. This is about 31% higher than the AVR. Therefore, we would expect that funding policy contribution volatility will increase over the long-term.

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

CHART 14
Volatility Ratios for Years Ended June 30, 2008 – 2012

Year Ended June 30	Asset Volatility Ratio	Liability Volatility Ratio		
2008	5.6	5.7		
2009	4.1	5.7		
2010	4.3	5.9		
2011	5.1	6.3		
2012	4.9	6.4		

SECTION 3: Supplemental Information from the Valuation of the University of California Retirement Plan

**SECTION 3:** Supplemental Information from the Valuation of the University of California Retirement Plan

# EXHIBIT A Table of Plan Coverage i. Active Members

	Year Beg	inning July 1	
Category	2012	2011	— Change From Prior Year
Active members with Social Security:			
Number	115,214	113,657	1.4%
Average age	44.9	44.8	N/A
Average service credit	9.4	9.3	1.1%
Total covered compensation	\$9,359,895,426	\$8,844,185,959	5.8%
Average covered compensation	\$81,239	\$77,815	4.4%
Active members without Social Security:			
Number	1,278	1,507	-15.2%
Average age	56.4	56.4	N/A
Average service credit	25.5	26.0	-1.9%
Total covered compensation	\$144,550,907	\$163,215,729	-11.4%
Average covered compensation	\$113,107	\$108,305	4.4%
Safety members:			
Number	396	404	-2.0%
Average age	42.1	42.1	N/A
Average service credit	10.0	10.2	-2.0%
Total covered compensation	\$37,893,696	\$37,383,252	1.4%
Average covered compensation	\$95,691	\$92,533	3.4%
All active members:			
Number	116,888	115,568	1.1%
Average age	45.0	44.9	N/A
Average service credit	9.6	9.6	0.0%
Total covered compensation	\$9,542,340,029	\$9,044,784,940	5.5%
Average covered compensation	\$81,637	\$78,264	4.3%

SECTION 3: Supplemental Information from the Valuation of the University of California Retirement Plan

# EXHIBIT A Table of Plan Coverage ii. Nonactive Members

	Year Begir	nning July 1*	
Category	2012	2011	Change From Prior Year
Terminated vested members:			
Number	32,873	32,159	2.2%
Average age	49.1	48.9	N/A
Total monthly benefit**	\$46,135,560	\$45,298,121	1.8%
Average monthly benefit	\$1,403	\$1,409	-0.4%
Terminated nonvested members:***			
Number	34,445	28,744	19.8%
Average member refund and CAP balance	\$5,631	\$6,443	-12.6%
Retired members:			
Number in pay status	49,675	47,243	5.1%
Average age	70.4	70.2	N/A
Total monthly benefit	\$158,920,367	\$146,644,555	8.4%
Average monthly benefit	\$3,199	\$3,104	3.1%
Disabled members:			
Number in pay status	2,000	2,084	-4.0%
Average age	57.1	56.8	N/A
Total monthly benefit	\$3,453,874	\$3,494,998	-1.2%
Average monthly benefit	\$1,727	\$1,677	3.0%
Beneficiaries (includes Eligible Survivors, Contingent Annuitar	nts, and Spouses/Domestic Partners):		
Number in pay status****	7,259	6,969	4.2%
Average age	73.9	74.2	N/A
Total monthly benefit	\$14,224,334	\$13,185,327	7.9%
Average monthly benefit	\$1,960	\$1,892	3.6%

Note: Monthly benefits shown include temporary Social Security Supplement

<sup>\*</sup> CAP balances total \$1.28 billion as of July 1, 2012 and \$1.28 billion as of July 1, 2011 for all members.

<sup>\*\*</sup> Benefit is calculated based on assumed retirement age (age 59 or current age if later).

<sup>\*\*\*</sup> For July 1, 2012, includes 6,863 members that transferred to the LANS or LLNS defined benefit plans who will be entitled to a CAP balance payment from UCRP after they separate employment with LANS or LLNS. For July 1, 2011, 7,320 members were included.

<sup>\*\*\*\*</sup> Excludes 97 deferred beneficiaries as of July 1, 2012 who are entitled to future benefits.

SECTION 3: Supplemental Information from the Valuation of the University of California Retirement Plan

**EXHIBIT B** 

Members in Active Service and Average Covered Compensation as of July 1, 2012 By Age and Service Credit

## i. All Active Members

	Service Credit											
Age	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over		
Under 25	3,628	3,590	38									
	\$43,300	\$43,368	\$36,890									
25 - 29	10,555	9,034	1,507	14								
	56,390	56,756	54,327	\$42,086								
30 - 34	14,062	8,817	4,482	753	10							
	68,361	69,985	66,613	59,800	\$64,775							
35 - 39	15,183	7,220	5,199	2,371	386	7						
	77,741	78,183	80,842	70,993	69,366	\$65,688						
40 - 44	15,300	5,182	5,098	3,408	1,290	312	10					
	81,902	78,510	84,636	85,088	78,571	73,182	\$61,359					
45 - 49	15,258	3,641	4,142	3,684	2,110	1,344	328	9				
	84,560	78,054	81,714	88,445	96,102	84,120	76,761	\$80,398				
50 - 54	15,541	2,873	3,185	3,298	2,287	2,283	1,196	401	18			
	87,122	79,356	79,021	86,324	100,046	97,061	88,458	80,319	\$66,676			
55 - 59	14,815	2,221	2,609	2,678	2,109	2,296	1,649	1,039	212	2		
	93,537	85,382	82,178	88,283	99,167	105,548	106,445	97,905	77,483	\$68,385		
60 - 64	8,334	1,173	1,568	1,563	1,172	1,155	844	630	212	17		
	100,059	89,354	85,339	89,394	99,187	109,069	124,719	130,516	116,158	71,048		
65 - 69	3,088	379	514	492	369	391	284	312	281	66		
	118,974	98,238	90,847	98,584	107,748	126,777	138,080	156,586	168,259	155,767		
70 & over	1,124	162	141	138	110	107	85	92	125	164		
	145,997	111,873	108,052	108,856	135,265	151,184	172,745	182,842	182,283	185,205		
Total	116,888	44,292	28,483	18,399	9,843	7,895	4,396	2,483	848	249		
	\$81,637	\$70,414	\$78,429	\$84,468	\$95,539	\$100,317	\$106,068	\$113,796	\$132,451	\$168,670		

Average Age: 45.0

Average Service Credit: 9.6

**SECTION 3:** Supplemental Information from the Valuation of the University of California Retirement Plan

**EXHIBIT B** 

Members in Active Service and Average Covered Compensation as of July 1, 2012 By Age and Service Credit

# ii. Members with Social Security

	Service Credit										
Age	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over	
Under 25	3,604	3,566	38								
	\$43,302	\$43,371	\$36,890								
25 - 29	10,405	8,897	1,494	14							
	56,398	56,806	54,108	\$42,086							
30 - 34	13,892	8,686	4,450	746	10						
	68,367	70,104	66,471	59,500	\$64,775						
35 - 39	15,050	7,141	5,161	2,357	384	7					
	77,742	78,299	80,788	70,818	69,165	\$65,688					
40 - 44	15,186	5,137	5,075	3,383	1,273	308	10				
	81,835	78,514	84,590	85,007	78,186	72,744	\$61,359				
45 - 49	15,170	3,628	4,122	3,666	2,095	1,327	323	9			
	84,506	78,125	81,696	88,393	96,055	83,819	75,975	\$80,398			
50 - 54	15,479	2,858	3,179	3,292	2,283	2,275	1,181	395	16		
	87,068	79,231	78,991	86,298	100,097	97,040	88,187	79,904	\$67,407		
55 - 59	14,617	2,202	2,601	2,676	2,107	2,284	1,626	1,005	116		
	93,603	85,225	82,063	88,265	99,132	105,643	106,684	97,288	81,716		
60 - 64	8,111	1,171	1,563	1,554	1,167	1,141	818	598	96	3	
	99,699	89,364	85,244	89,221	99,049	108,907	125,203	131,410	115,364	\$66,813	
65 - 69	2,794	377	512	485	366	381	267	266	119	21	
	115,439	98,132	90,530	98,308	107,840	127,354	137,642	158,517	179,865	152,347	
70 & over	906	160	139	137	107	102	82	69	52	58	
	138,426	111,678	108,490	107,866	136,033	150,481	174,253	184,546	188,322	189,098	
Total	115,214	43,823	28,334	18,310	9,792	7,825	4,307	2,342	399	82	
	\$81,239	\$70,477	\$78,360	\$84,375	\$95,484	\$100,228	\$105,926	\$112,529	\$132,404	\$175,212	

Average Age: 44.9

Average Service Credit: 9.4

**SECTION 3:** Supplemental Information from the Valuation of the University of California Retirement Plan

EXHIBIT B

Members in Active Service and Average Covered Compensation as of July 1, 2012

By Age and Service Credit

# iii. Members without Social Security

	Service Credit										
Age	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & ove	
Under 25	23	23									
	\$41,267	\$41,267									
25 - 29	114	113	1								
	49,295	49,346	\$43,503								
30 - 34	104	104									
	57,023	57,023									
35 - 39	67	60	7								
	66,438	64,119	86,310								
40 - 44	41	29	7	5							
	74,143	69,014	95,179	\$74,444							
45 - 49	16	9	4	3							
	64,218	50,349	77,601	87,983							
50 - 54	17	2	1	2	2	2	5	1	2		
	88,255	141,776	82,061	85,657	\$52,366	\$130,249	\$78,248	\$85,281	\$60,831		
55 - 59	167	2	2		2	10	19	34	96	2	
	83,413	54,391	46,640		136,439	82,425	84,091	116,140	72,370	\$68,385	
60 - 64	218	2	3	8	5	13	25	32	116	14	
	113,441	83,478	133,468	122,994	131,390	124,737	108,011	113,816	116,815	71,956	
65 - 69	293	2	1	7	3	10	17	46	162	45	
	152,511	118,295	176,258	117,673	96,530	104,792	144,952	145,418	159,734	157,363	
70 & over	218	2	2	1	3	5	3	23	73	106	
	177,463	127,500	77,603	244,560	107,872	165,540	131,515	177,728	177,982	183,074	
Total	1,278	348	28	26	15	40	69	136	449	167	
	\$113,107	\$56,920	\$90,412	\$109,989	\$109,851	\$114,548	\$109,391	\$135,685	\$132,493	\$165,457	

Average Age: 56.4

Average Service Credit: 25.5

**SECTION 3:** Supplemental Information from the Valuation of the University of California Retirement Plan

**EXHIBIT B** 

Members in Active Service and Average Covered Compensation as of July 1, 2012 By Age and Service Credit

iv. Safety Members

	Service Credit										
Age	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over	
Under 25	1	1									
	\$81,178	\$81,178									
25 - 29	36	24	12								
	76,403	73,369	\$82,470								
30 - 34	66	27	32	7							
	84,985	81,678	86,308	\$91,699							
35 - 39	66	19	31	14	2						
	88,891	79,012	88,504	100,438	\$107,904						
40 - 44	73	16	16	20	17	4					
	100,094	94,576	94,506	101,383	107,430	\$106,897					
45 - 49	72	4	16	15	15	17	5				
	100,398	76,125	87,261	101,382	102,660	107,641	\$127,491				
50 - 54	45	13	5	4	2	6	10	5			
	105,502	97,385	97,699	108,431	89,793	93,984	125,516	\$112,141			
55 - 59	31	17	6	2		2	4				
	117,236	109,332	143,985	112,146		112,353	115,692				
60 - 64	5		2	1		1	1				
	100,207		87,302	89,946		89,902	146,585				
65 - 69	1		1								
	167,731		167,731								
70 & over											
Total	396	121	121	63	36	30	20	5			
	\$95,691	\$86,702	\$91,720	\$100,704	\$104,489	\$104,533	\$125,099	\$112,141			

Average Age: 42.1

Average Service Credit: 10.0

## SECTION 3: Supplemental Information from the Valuation of the University of California Retirement Plan

EXHIBIT C
Reconciliation of Member Data

	Active Members	Terminated Vested Members*	Retired Members	Disabled Members	Beneficiaries**	Total
Number as of July 1, 2011	115,568	60,903	47,243	2,084	6,969	232,767
New members	14,116	0	0	0	601	14,717
Terminations – with vested rights	(9,362)	9,362	0	0	0	0
Terminations – without vested rights***	(1,110)	(909)	0	0	0	(2,019)
Retirements	(2,600)	(697)	3,435	(138)	0	0
Disabilities	(94)	(25)	(10)	129	0	0
Lump Sum Cashouts	(358)	(400)	(7)	(30)	(36)	(831)
Return to work	844	(826)	(16)	(2)	0	0
Died with or without beneficiary	(117)	(97)	(978)	(38)	(265)	(1,495)
Data adjustments	1	7	8	(5)	(10)	1
Number as of July 1, 2012	116,888	67,318	49,675	2,000	7,259	243,140

<sup>\*</sup> Includes terminated nonvested members due a refund of member contributions or CAP balance payment and members that transferred to the LANS or LLNS defined benefit plans who will be entitled to a CAP balance payment from UCRP after they separate employment with LANS or LLNS.

<sup>\*\*</sup> Excludes deferred beneficiaries who are entitled to future benefits.

<sup>\*\*\*</sup> Includes those members who terminated and received a refund of member contributions or a distribution of their CAP balance.

**SECTION 3:** Supplemental Information from the Valuation of the University of California Retirement Plan

EXHIBIT D
Summary Statement of Income and Expenses (Actuarial Value Basis)

	Year Ended Ju	ne 30, 2012	Year Ended Ju	ne 30, 2011	
	(\$ in 00	00s)	(\$ in 000s)		
Contribution income:					
Employer contributions	\$1,851,459		\$1,677,921		
Members contributions	272,421		143,261		
Less administration expense	(32,839)		(31,088)		
Net contribution income		\$2,091,041		\$1,790,094	
Investment income:					
Interest and dividends	\$862,453		\$909,563		
Recognition of capital appreciation	(509,605)		950,866		
Securities lending income	45,488		48,326		
Securities lending fees and rebates	(8,549)		(15,274)		
Net investment income		389,787		1,893,481	
Other income		0		0	
Total income available for future benefits		\$2,480,828		\$3,683,575	
Less benefit payments		(\$2,273,071)		(\$2,121,622)	
Change in assets available for future benefits		\$207,757		\$1,561,953	

**SECTION 3:** Supplemental Information from the Valuation of the University of California Retirement Plan

**EXHIBIT E**Summary Statement of Assets

	Year Ended Ju	ne 30, 2012	Year Ended Ju	ine 30, 2011	
	(\$ in 00	00s)	(\$ in 000s)		
Cash equivalents		\$235,689		\$162,208	
Accounts receivable:					
Contributions	\$354,975		\$301,000		
Interest and dividends	65,579		69,681		
Investment of cash collateral	5,409,671		5,099,459		
Securities sales and other	704,855		111,466		
Total accounts receivable		\$6,535,080		5,581,606	
Investments:					
Equity securities	\$19,709,812		\$21,626,822		
Fixed income securities	9,564,784		9,561,683		
Real estate	2,257,061		1,983,283		
Commingled funds	9,721,607		8,597,304		
Real assets	531,858		327,189		
Derivative investments	45,485		14,958		
Total investments at market value		41,830,607		42,111,239	
Total assets		\$48,601,376		\$47,855,053	
Less accounts payable:					
Payable for securities purchased	(\$1,345,658)		(\$668,484)		
Member withdrawals, refunds and other payables	(41,550)		(214,478)		
Collateral held for securities lending	(5,407,683)		(5,099,436)		
Total accounts payable		(\$6,794,891)		(\$5,982,398)	
Net assets at market value		<u>\$41,806,485</u>		\$41,872,655	
Net assets at actuarial value (for comparison purposes)		\$42,965,028		\$42,757,271	

# **SECTION 3:** Supplemental Information from the Valuation of the University of California Retirement Plan

EXHIBIT F

Development of Unfunded/(Overfunded) Actuarial Accrued Liability (\$ in 000s)

	Year Ended June 30, 2012	
1. Unfunded/(Overfunded) actuarial accrued liability at beginning of year		\$9,074,035
2. Normal cost at beginning of year		1,403,693
3. Expected total funding policy and required contractual contributions		(2,543,717)
4. Interest		
(a) For whole year on $(1) + (2)$	\$785,830	
(b) For partial year on (3)	(83,887)	
(c) Total interest		701,943
5. Expected Unfunded/(Overfunded) actuarial accrued liability		\$8,635,954
6. Changes due to:		
(a) Loss from contributions less than expected under funding policy	\$424,079	
(b) Loss from investments	2,810,182	
(c) Gain from salary increases	(3,604)	
(d) Gain from other experience	(212,019)	
(e) Total changes		3,018,638
7. Unfunded/(Overfunded) actuarial accrued liability at end of year		<u>\$11,654,592</u>

**EXHIBIT G**Actuarial Liabilities

	July 1, 2012 (\$ in 000s)	July 1, 2011 (\$ in 000s)
Actuarial Accrued Liability	(\$ III 0000)	(\$ III 0000)
Members in pay status		
Retirees*	\$22,364,888	\$20,753,433
Beneficiaries**	1,627,997	1,496,599
Disableds	732,192	739,824
Total in pay status	\$24,725,077	\$22,989,856
Active members		
With Social Security	\$24,034,111	\$22,935,015
Without Social Security	1,033,334	1,203,380
Safety	142,595	145,208
Total actives	\$25,210,040	\$24,283,603
Terminated members		
Vested	\$4,490,534	\$4,372,662
Nonvested	<u>193,969</u>	<u> 185,185</u>
Total terminated	\$4,684,503	\$4,557,847
Total actuarial accrued liability	\$54,619,620	\$51,831,306
Actuarial Present Value of Projected Benefits		
Members in pay status*	\$24,725,077	\$22,989,856
Active members	38,094,860	36,375,079
Terminated members	4,684,503	4,557,847
Total present value of projected benefits	\$67,504,440	\$63,922,782

<sup>\*</sup> For July 1, 2012, includes a liability of \$58.5 million for Lump Sum Cashouts, CAP balance payments and refunds of member contributions that were paid on or after July 1, 2012. For July 1, 2011, includes a liability of \$42.5 million for Lump Sum Cashouts, CAP balance payments and refunds of member contributions that were paid on or after July 1, 2011.

<sup>\*\*</sup> Includes liability for deferred beneficiaries.

EXHIBIT H

Table of Amortization Bases as of July 1, 2012 (Non-Laboratory Segment of UCRP - \$ in 000s)

Туре	Date Established	Initial Years	Initial Amount	Annual Payment*	Years Remaining	Outstanding Balance
Actuarial Loss**	07/01/2010	30	\$5,389,886	\$424,529	28	\$5,281,723
Actuarial Loss	07/01/2011	30	905,208	71,298	29	896,454
Change in Assumptions	07/01/2011	15	1,513,127	159,459	14	1,455,194
Plan Amendment	07/01/2011	15	(59,179)	(6,236)	14	(56,913)
Actuarial Loss	07/01/2012	30	2,457,582	<u>193,569</u>	30	2,457,582
Total				\$842,619		\$10,034,040

<sup>\*</sup> Level dollar amount. Payment shown is as of beginning of year. The amounts shown are based on results for the non-laboratory segment of UCRP (i.e., campuses, medical centers and Hastings College of Law). They are used in the determination of the total funding policy contribution shown in Section 2, Chart 11, page 10. For more details on the UCRP funding policy please see Section 4, Exhibit VII, page 52.

<sup>\*\*</sup> The July 1, 2010 amortization bases were combined into a single amortization base and amortized over 30 years as a level dollar amount.

# EXHIBIT I Reconciliation of Total Funding Policy Contribution Rate from July 1, 2011 to July 1, 2012

Total Funding Policy Contribution Rate as of July 1, 2011	26.35%
Effect of contributions less than those determined under funding policy	0.38%
Effect of investment loss	2.27%
Effect of gains or losses on salary experience	0.01%
Effect of other experience*	<u>-0.45%</u>
Total change	<u>2.21%</u>
Total Funding Policy Contribution Rate as of July 1, 2012	28.56%

<sup>\*</sup> Includes effect of increase in total payroll, as well as other differences in actual versus expected experience including mortality, disability, withdrawal and retirement experience.

#### **EXHIBIT J**

#### **Section 415 Limitations**

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

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

In particular, Section 415(b) of the IRC limits the maximum annual benefit payable at the Normal Retirement Age to a dollar limit indexed for inflation. That limit is \$195,000 for 2011 and \$200,000 for 2012. Normal Retirement Age for these purposes is age 62. These are the limits in simplified terms. They must be adjusted based on each participant's circumstances, form of benefits chosen and after tax contributions.

The University pays benefits in excess of the limits through a 415(m) Restoration Plan. These costs are excluded in this valuation.

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

#### **EXHIBIT K**

#### **Definitions of Pension Terms**

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

# Assumptions or Actuarial Assumptions:

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

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

#### Normal Cost:

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

## Actuarial Accrued Liability for Actives:

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

# Actuarial Accrued Liability for Pensioners:

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

# **Unfunded (Overfunded) Actuarial Accrued Liability:**

The extent that the actuarial accrued liability of the Plan exceeds (or is exceeded by) the assets of the Plan.

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Amortization of the Unfunded (Overfunded) Actuarial Accrued Liability:

Payments made over a period of years equal in value to the Plan's unfunded or

overfunded actuarial accrued liability.

**Investment Return:** The rate of earnings of the Plan from its investments, including interest, dividends and

capital gain and loss adjustments, computed as a percentage of the average value of the fund. For actuarial purposes, the investment return reflects a smoothing of market gains and losses to avoid significant swings in the value of assets from one year to the

next.

**Beneficiary:** Used for statistical purposes only; includes Eligible Survivors, Contingent Annuitants

and Spouses/Domestic Partners

# EXHIBIT I Summary of Actuarial Valuation Results as of July 1, 2012 (\$ in 000s)

The valuation was made with respect to the following data supplied to us:		
1. Retired members as of the valuation date (including 7,259 beneficiaries in pay status)*		
2. Members inactive during year ended June 30, 2012 with vested rights**		67,318
. Members active during the year ended June 30, 2012		116,888
The actuarial factors as of the valuation date are as follows:		
1. Normal cost (beginning of year)		\$1,499,751
2. Present value of future benefits		67,504,440
3. Present value of future normal costs		12,884,820
4. Actuarial accrued liability		54,619,620
Retired members and beneficiaries***	\$24,725,077	
Inactive members with vested rights**	4,684,503	
Active members	25,210,040	
5. Actuarial value of assets (\$41,806,485 at market value as reported by the UCOP)		42,965,028
6. Unfunded actuarial accrued liability		\$11,654,592

<sup>\*</sup> Excludes deferred beneficiaries who are entitled to future benefits.

<sup>\*\*</sup> Includes terminated nonvested members due a refund of member contributions or CAP balance payment and members that transferred to the LANS or LLNS defined benefit plans who will be entitled to a CAP balance payment from UCRP after they separate from employment with LANS or LLNS.

<sup>\*\*\*</sup> Includes liability for deferred beneficiaries.

## **EXHIBIT I (continued)**

## Summary of Actuarial Valuation Results as of July 1, 2012 (\$ in 000s)

The determination of the normal cost (non-laboratory segment of UCRP) is as follows:	Dollar Amount*	% of Payroll**
1. Total normal cost (beginning of year)	\$1,453,604	17.44%
2. Expected employee contributions	<u>-392,295</u>	<u>-4.71%</u>
3. Employer normal cost: (1) + (2)	\$1,061,309	12.73%

<sup>\*</sup> Based on estimated covered payroll of \$8,333,655 (also in thousands) for the 2012-2013 Plan Year.

<sup>\*\*</sup> For Safety members, the total normal cost as a percentage of payroll is 24.01%.

EXHIBIT II

Supplementary Information Required by GAS 25 – Schedule of Employer Contributions (\$ in 000s)

Plan Year Ended June 30	Annual Required Contributions	Actual Contributions	Percentage Contributed
2007	\$23,934	\$23,934	100.00%
2008	2,657	2,657	100.00%
2009	454	454	100.00%
2010	1,695,137	148,445	8.76%
2011	1,806,205	1,677,921	92.90%
2012	2,062,022	1,851,459	89.79%

The Annual Required Contribution (ARC) shown for Plan Years ending June 30, 2010 and later includes interest until the end of the Plan Year. This interest includes interest on actual employer contributions made throughout the year.

EXHIBIT III

Supplementary Information Required by GAS 25 – Schedule of Funding Progress (\$ in 000s)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded/ (Overfunded) AAL (UAAL) (b) - (a)	Funded Ratio (a) / (b)	Projected Covered Payroll (c)	UAAL as a Percentage of Projected Covered Payroll [(b) - (a)] / (c)
07/01/2007*	\$43,433,936	\$41,436,576	(\$1,997,360)	104.8%	\$7,612,726	(26.2%)
07/01/2008	43,840,272	42,576,822	(1,263,450)	103.0%	7,468,809	(16.9%)
07/01/2009	42,798,773	45,160,525	2,361,752	94.8%	7,873,694	30.0%
07/01/2010	41,195,318	47,504,309	6,308,991	86.7%	7,995,421	78.9%
07/01/2011	42,757,271	51,831,306	9,074,035	82.5%	8,163,021	111.2%
07/01/2012	42,965,028	54,619,620	11,654,592	78.7%	8,598,114	135.5%

<sup>\*</sup> Beginning in 2007, covered payroll is reduced to anticipate members who leave active status during the year.

## **EXHIBIT IV**

## **Supplementary Information Required by GAS 25**

Valuation Date	July 1, 2012
Actuarial Cost Method	Entry Age Normal Cost Method
Amortization Method	Level dollar, Closed
Remaining Amortization Period	The July 1, 2010 amortization bases were combined into a single amortization base and amortized over 30 years. Any changes in UAAL due to actuarial experience gains or losses after July 1, 2010 will be separately amortized over a fixed (closed) 30-year period effective with that valuation. Any changes in UAAL due to a change in actuarial assumptions or plan provisions will be separately amortized over a fixed (closed) 15-year period.
Asset Valuation Method	The market value of asset less unrecognized returns in each of the last five years. Unrecognized return is equal to the difference between the actual and the expected returns on a market value basis and is recognized over a five-year period.
Actuarial Assumptions:	
Investment Rate of Return*	7.50%
Projected Salary Increases*	4.30% to 6.75%
Cost of Living Adjustments	2.00%
Membership of the Plan	
Retirees, disableds and beneficiaries receiving benefits**	58,934
Terminated Plan members entitled to, but not yet receiving benefits***	67,318
Active Plan members	<u>116,888</u>
Total	243,140

<sup>\*</sup> Includes inflation at 3.50%

<sup>\*\*</sup> Excludes 97 deferred beneficiaries who are entitled to future benefits.

<sup>\*\*\*</sup> Includes terminated nonvested members due a refund of member contributions or CAP balance payment and members that transferred to the LANS or LLNS defined benefit plans who will be entitled to a CAP balance payment from UCRP after they separate employment with LANS or LLNS.

#### **EXHIBIT V**

#### **Actuarial Assumptions and Methods**

#### **Demographic Assumptions**

#### **Post – Retirement Mortality Rates:**

Healthy: RP-2000 Combined Healthy Mortality Table projected with scale AA to 2025. Ages

are set back two years for males (from the male table) and females (from the female

table).

Disabled: RP-2000 Disabled Retiree Mortality Table projected with scale AA to 2025. Ages are

set back two years for males (from the male table).

The RP-2000 mortality tables projected with Scale AA to 2015 and adjusted by a two-year set back reasonably reflects the projected mortality experience as of the measurement date. The additional projection to 2025 is a provision for future mortality improvement.

## **Sample Termination Rates Before Retirement:**

%	)
	<b>%</b>

	Healthy	Mortality*	Disabled I	Mortality**	Disability I	ncidence***
Age	Male	Female	Male	Female	Male	Female
20	0.02	0.01	1.43	0.49	0.02	0.02
25	0.03	0.01	1.55	0.52	0.03	0.03
30	0.03	0.02	1.99	0.58	0.06	0.06
35	0.06	0.03	1.99	0.57	0.09	0.09
40	0.08	0.04	1.94	0.51	0.13	0.16
45	0.10	0.06	1.71	0.50	0.18	0.26
50	0.12	0.09	1.76	0.75	0.29	0.36
55	0.18	0.16	1.98	1.35	0.35	0.46
60	0.35	0.35	2.63	1.93	0.35	0.50
65	0.70	0.67	3.27	2.47	0.23	0.32

<sup>\*</sup> All pre-retirement deaths are assumed to be non-duty related.

<sup>\*\*</sup> Assumed to apply only while receiving UCRP Disability Income.

<sup>\*\*\*</sup> All disabilities are assumed to be non-duty related.

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

Rate (%) Withdrawal\* Years of Staff and Service **Faculty Safety** Less than 1 19.00 21.00 17.00 12.00 2 8.00 14.00 3 7.00 11.00 4 6.00 9.00 5 5.75 8.00 5.50 7.50 6 7.00 7 5.25 8 5.00 6.50 9 4.75 6.00 10 4.50 5.50 11 4.25 5.25 12 4.00 5.00 13 3.75 4.75 14 3.50 4.50 15 4.25 3.25 3.00 4.00 16 17 2.75 3.75 18 2.50 3.50 19 2.25 3.25 2.00 3.00 20 & over

<sup>\*</sup> The greater of a refund of member contributions and a deferred annuity or lump sum is valued when a member withdraws. No withdrawal is assumed after a member is first assumed to retire.

## **Retirement Rates:**

Retirement Pr	obability	– Unisex
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	Ketirement Fron	ability – Cilista	
Age	Faculty	Staff*	Safety
50	2.00%	4.00%	20.00%
51	1.00	3.00	10.00
52	1.00	3.00	10.00
53	1.00	3.00	10.00
54	1.00	4.00	10.00
55	2.00	4.00	20.00
56	2.00	5.00	20.00
57	2.00	6.00	25.00
58	2.00	7.00	25.00
59	3.00	10.00	25.00
60	5.00	14.00	25.00
61	5.00	16.00	30.00
62	5.00	18.00	40.00
63	5.00	18.00	50.00
64	7.00	20.00	60.00
65	9.00	25.00	100.00
66	10.00	22.00	100.00
67	11.00	22.00	100.00
68	12.00	22.00	100.00
69	15.00	22.00	100.00
70	15.00	20.00	100.00
71	12.00	20.00	100.00
72	12.00	20.00	100.00
73	12.00	20.00	100.00
74	12.00	20.00	100.00
75	100.00	100.00	100.00

<sup>\*</sup> These rates apply for those with ten to twenty years of service. For ages under 65, 60% of these rates will be used for those with less than ten years of service and 150% of these rates will be used for those with twenty or more years of service.

**Retirement Age for Deferred** 

**Vested Members:** Deferred vested members are assumed to retire at age 59.

Benefit for Terminated

**Nonvested Members:** Immediate refund of member contribution and CAP balance.

**Disability Income Cross Over Age:** Members receiving Disability Income are assumed to "cross over" at age 65 for those

coordinated with Social Security or age 67 for those not coordinated with Social

Security.

**Form of Payment:** For those members not electing a Lump Sum Cashout:

Life annuity for members without an Eligible Survivor;

25% contingent annuity for members with Social Security who have an Eligible

Survivor;

50% contingent annuity for members without Social Security who have an Eligible

Survivor;

50% contingent annuity for Safety members who have an Eligible Survivor.

It is also assumed that some members elect a Lump Sum Cashout (see Lump Sum

Assumptions).

Future Benefit Accruals: 1.0 year of service per year for the full-time employees. Part-time employees are

assumed to earn full-time service for all future years.

**Definition of Active Members:** All members of UCRP who are not separated from active membership as of the

valuation date or have not started receiving a monthly pension on or before the

valuation date.

**Percent with Eligible Survivors:** 85% of male members and 65% of female members are assumed to have Eligible

Survivors at time of decrement.

**Eligible Survivor Ages:** Members assumed to have an opposite sex Eligible Spouse or Eligible Domestic

Partner, with females three years younger than males.

SECTION 4: Reporting Information from the Valuation of the University of California Retirement Plan

## **Number of Survivors (Samples):**

## Number of Survivors per Active Member with Survivors

Age	Male	Female
20	1.0	1.0
25	1.8	2.1
30	2.2	2.7
35	2.7	2.8
40	3.0	2.4
45	2.8	2.1
50	2.5	1.7
55	2.0	1.4
60	1.5	1.2
65	1.3	1.1

## **Economic Assumptions**

**Net Investment Return:** 7.50% (including 3.50% for inflation)

**Consumer Price Index:** Increase of 3.50% per year; COLA increases are assumed to be 2.00% per year.

**Administrative Expenses:** 0.50% of payroll added to normal cost.

## **Salary Increases:**

## **Annual Rate of Compensation Increase**

Inflation: 3.50% per year, plus "across the board" salary increases of 0.50% per year, plus the following merit and promotional increases:

Years of		
Service	Faculty	Staff and Safety
Less than 1	2.75%	2.75%
1	2.75	2.50
2	2.75	2.30
3	2.75	2.10
4	2.75	1.90
5	2.70	1.70
6	2.65	1.50
7	2.60	1.40
8	2.50	1.30
9	2.40	1.20
10	2.30	1.10
11	2.20	1.00
12	2.10	0.90
13	2.00	0.80
14	1.90	0.70
15	1.80	0.60
16	1.70	0.50
17	1.60	0.45
18	1.50	0.40
19	1.30	0.35
20 & over	1.10	0.30

#### **Actuarial Methods**

**Actuarial Value of Assets:** The market value of assets less unrecognized returns in each of the last five years.

Unrecognized return is equal to the difference between the actual and the expected

returns on a market value basis and is recognized over a five-year period.

**Actuarial Cost Method:** Entry Age Normal Actuarial Cost Method. Entry Age is calculated as the valuation

date minus years of service. Normal Cost and Actuarial Accrued Liability are

calculated on an individual basis and are allocated by salaries, as if the current benefit

accrual rate has always been in effect (i.e., "replacement life").

Covered Payroll: Covered compensation for a Plan Year is determined by annualizing actual payroll for

the prior Plan Year increased by the assumed rate of salary growth. Covered payroll is covered compensation reduced to anticipate members who leave active status during

the year.

## **Other Actuarial Assumptions**

**Increase in 401(a)(17)** 

**Compensation Limit:** Increase of 3.5% per year from the valuation date.

**Increase in 415 Dollar Limit:** Increase of 3.5% per year from the valuation date.

## **Lump Sum Assumptions:**

Conversion Basis:

 Discount Rate:
 7.50%

 COLA:
 2.00%

Mortality: RP-2000 C

RP-2000 Combined Healthy Mortality Table projected with scale AA to 2025 set back two years; weighted 40% male and 60% female.

Take-rate:

Members Terminating From Active Membership and Eligible to Retire

	Percentage Electing
Years of Service	Lump Sum Cashout
Less than 10	30.0%
10 - 14	15.0%
15 - 19	12.5%
20 - 24	7.5%
25 & over	5.0%

For those who were receiving a disability income and now "crossing over", we are assuming that 13% elect a Lump Sum Cashout. For those members who are leaving inactive (deferred vested) status, we are assuming that 45% elect a Lump Sum Cashout.

## **Approximations:**

Sick Leave

Service has been increased by 0.13% for Faculty, 1.45% for Staff, and 2.00% for Safety members to account for unused sick leave. This assumption applies only for members retiring from active membership and not electing a Lump Sum Cashout. For all other benefits there is assumed to be no conversion of unused sick leave to service credit.

## Changes in Actuarial Assumptions and Methods:

There were no changes in actuarial assumptions or methods since the prior valuation.

#### **EXHIBIT VI**

## **Summary of Plan Provisions**

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

<b>Effective Date:</b>	April 24, 1954. Includes amendments through July 1, 2012.
<b>Covered Employees:</b>	Generally all employees who are not members of another retirement system to which the Regents contribute, and who:
	a. Are appointed to work 50% time or more for one year or longer or
	b. Have generally accumulated at least 1,000 hours in a 12-month period.
Highest Average Plan Compensation (HAPC):	Highest average monthly full-time-equivalent base compensation rate received during any period of 36 consecutive months.
Compensation Limit:	Annual compensation is limited based on Internal Revenue Code Section 401(a)(17). The limit for the Plan Year beginning July 1, 2012 is \$250,000 for employees who became members on or after July 1, 1994. The limit is \$375,000 for those active members who became employees before July 1, 1994. The compensation limit is indexed for inflation on an annual basis.

SECTION 4: Reporting Information from the Valuation of the University of California Retirement Plan

Age Factor:	Percentage of HAPC per year of service credit (interpolated for fractional ages).			
Nonsafety Members				
	Age	Factor	Age	Factor
	50	1.10%	56	1.94%
	51	1.24	57	2.08
	52 53 54	1.38 1.52 1.66	58 59 60+	2.22 2.36
				2.50
	55	1.80		
Safety Members	3.0% at all ages 50 and	l above.		
Tier II Members	Equal to one-half of th	e Age Factor for Nonsafe	ty Members.	
Benefit Percentage:	Age Factor multiplied by years of service credit; not to exceed 100%.			
Basic Retirement Income (BRI):				
Members without Social Security	Benefit Percentage x H	IAPC.		
Members with Social Security	Benefit Percentage x H	IAPC in excess of \$133 p	er month.	
Safety Members	Benefit Percentage x H	IAPC.		

**Service Retirement:** 

Eligibility Age 50 with 5 years of service credit, or

Age 62 regardless of service credit if membership began on or before July 1, 1989, or

Retirement on Normal Retirement Date.

Benefit BRI.

Form of Payment Single Life Annuity.

Payment Options Full continuance to contingent annuitant; two-thirds continuance to contingent

annuitant; one-half continuance to contingent annuitant; one-half continuance (including postretirement survivor continuance) to surviving spouse or domestic

partner (for members with Social Security only).

Lump Sum Cashout May be elected in lieu of monthly retirement income.

## **Temporary Social Security Supplement:**

Eligibility For members with Social Security only and retirement must occur before age 65.

Benefit Temporary annuity payable to age 65 in the amount of \$133 per month multiplied by

Benefit Percentage.

Form of Payment Single Life Annuity.

Payment Options None.

#### **Disability:**

*Eligibility* Disablement after five years of service credit; Safety members are eligible for duty

disability without regard to years of service credit. Service credit continues to accrue

during disabled period.

Benefit

Member without Social

Security 25% of final salary, plus 5% of final salary per year of service credit greater than two,

total not to exceed 40% of final salary, plus 5% of final salary for each eligible child,

total not to exceed 20% of final salary.

15% of final salary, plus 2.5% of final salary per year of service credit greater than Member with Social Security

two, total not to exceed 40% of final salary, less \$106.40 per month.

*Safety Members(Non-duty)* Same as for members without Social Security; includes eligible child's benefit.

50% of HAPC, or non-duty disability benefit if greater.

Safety Members(Duty)

Single life annuity payable until end of disability income period or retirement date if Form of Payment

earlier.

Disability Income Period

Members disabled before

*November 5. 1990* 

To earliest of:

Date member is eligible to retire and retirement income equals or exceeds disability

income:

Age 62 (age 67 for members without Social Security); or

Date member retires.

Members disabled on or after

*November 5, 1990* 

If under age 65 at disablement:

Members with Social Security: to age 65 or five years if longer.

Members without Social Security: to age 67 or five years if longer.

If age 65 or older at disablement: to age 70 or 12 months if longer.

Disability income ends if member is no longer disabled.

## **Vested Termination:**

Eligibility Five years of service credit, or age 62 regardless of service credit if membership

began on or before July 1, 1989.

BRI beginning at age 50 or later, calculated using HAPC at termination date, adjusting

for CPI changes (see Cost-of-Living Adjustment), and benefit formula in effect when

benefits commence.

Form of Payment As for retirement.

Payment Options As for retirement.

Refund Option Member may elect a refund of contributions with interest, thereby forfeiting all other

benefits.

Lump Sum Cashout May be elected in lieu of retirement income, available only if at least age 50 with five

years service credit at date of termination.

#### **Preretirement Survivor Income:**

Eligible survivor of deceased active or disabled member with two or more years of service credit; no service requirement for duty-related death of Safety member.

Benefit

Member without Social Security

Percent of final salary as follows:

Eligible Survivors	Percent	Minimum Benefit
1	25%	\$200
2	35	\$300
3	40	\$300 plus 5% of final salary
4	45	\$300 plus 10% of final salary
5+	50	\$300 plus 15% of final salary

Member with Social Security

Safety Members, non-duty death

25% of final salary less \$106.40 per month.

As for members without Social Security.

Safety Members, duty death

Percentage of HAPC as follows, but not less than benefit for non-duty death.

Eligible Survivors	Percent of HAPC
1	50.0%
2	62.5
3	70.0
4+	75.0

Death while eligible to retire

*Eligibility* 

Surviving spouse or surviving domestic partner of active, disabled or inactive member who dies while eligible to retire.

Benefit

Greater of benefit described above or monthly benefit to eligible spouse or eligible domestic partner assuming member had retired on date of death and elected full continuance option with spouse or domestic partner as contingent annuitant.

Postretirement Survivor Continuand	ce:
Eligibility	Eligible surviving spouse, eligible surviving domestic partner, eligible children or eligible dependent parent of deceased retired member.
Benefit	
Member without Social Security	50% of BRI including COLA.
Member with Social Security	25% of BRI including COLA, plus 25% of Temporary Social Security Supplement (ends when member would have reached age 65).
Safety Members	50% of BRI including COLA.
Lump Sum Death Benefit:	
Eligibility	Beneficiary of active, inactive, disabled, or retired member.
Basic Benefit	
Active member who became a member before October 1, 1990	Greater of:
	\$1,500 plus one month's final salary, or \$7,500.
All others	\$7,500
Residual Benefit	Refund of member contributions plus interest, reduced by a portion of benefits received (100% of retirement income, 50% of preretirement survivor income or disability income) payable to beneficiary if no survivor, surviving spouse, domestic partner, or contingent annuitant.
Normal Retirement Age:	
Safety Members	Attainment of age 50 with five years of service credit.
All Other Members	Attainment of age 60 with five years of service credit.

Eligible Survivor:	
Eligible Spouse or	
Domestic Partner	Spouse or domestic partner of deceased active or disabled member in relationship for at least one year before date of death and who is:
	Responsible for care of eligible child, disabled, or age 60 (age 50 if spouse of membe without Social Security and in Plan prior to October 19, 1973).
Eligible Child	Child that is either under age 18, under age 22 and a full-time student, or disabled, if disability occurred prior to age 18 or age 22 if a full-time student.
Eligible Dependent Parent	Parent of deceased active, disabled or retired member, supported by 50% or more by member for one year prior to earliest of death, disablement or retirement.
<b>Inactive Member:</b>	Former UCRP member who retains right to vested benefits.
<b>Cost-of-Living Adjustment:</b>	
Basic	100% of annual Consumer Price Index (CPI) increase up to 2% per year.
Supplemental	Generally 75% of annual CPI increase above 4%.
	The sum of the Basic and Supplemental COLA's cannot exceed 6% in a year.
COLA applies to:	
Retired members, survivors, disabled members, and contingent annuitants receiving retirement income	Benefits in pay status one or more years on July 1.
Inactive members	HAPC (used to calculate retirement income) adjusted for COLA up to 2% per year from separation date to retirement date; retirement income adjusted using COLA formula.
Disabled members receiving disability income since before November 5, 1990	HAPC (used to calculate retirement income) adjusted for COLA up to COLA formula above for years from disablement to retirement date.

F1: - :1-:1:4.	Various LICDD assessment and assessment have CAD below a formally at the	
Eligibility	Various UCRP nonretired members have CAP balances from allocations made periodically in the past. These balances are all vested.	
Interest Credit	Regents' approved interest rate; currently 8.5% per year for pre-2002 CAPs and the assumed rate of investment return used in the actuarial valuation (currently 7.5%) for 2002 and later CAPs (CAP II).	
Payment	Lump sum payment upon termination, retirement or death.	
niversity Contributions:	Each year the Regents will determine the actual total contributions and the split between Member Contributions and University Contributions based on the total funding policy contribution and various other factors, including the availability of funds, the impact of employee contributions on the competitiveness of UC's total remuneration package, and collective bargaining. In no event would the University Contributions be lower than the Member Contributions.	
	The total funding policy contribution is based on the Regents' funding policy as described in Exhibit VII.	
	The Regents approved an employer contribution rate of 10% of covered compensation starting July 1, 2012. This rate will increase to 12% of covered compensation on July 1, 2013.	
<b>Iember Contributions:</b>		
Members without Social Security	5.0% of covered compensation from July 1, 2012 through June 30, 2013;	
	6.5% of covered compensation starting July 1, 2013.	
Members with Social Security	5.0% of covered compensation from July 1, 2012 through June 30, 2013;	
	6.5% of covered compensation starting July 1, 2013.	
Safety Members	6.0% of covered compensation from July 1, 2012 through June 30, 2013;	
	7.5% of covered compensation starting July 1, 2013.	
Offset	All member contributions are reduced by \$19 per month.	
Interest Credit	Regents' approved interest rate; currently 6.0% per year.	

## **Changes in Plan Provisions:**

The following changes in Plan provisions have been recognized since the prior valuation:

➤ The Regents approved rates for University and Member contributions to UCRP for the Plan Year beginning July 1, 2013. These rates are shown on the prior page.

#### **EXHIBIT VII**

**UCRP Funding Policy** 

## **UCRP Funding Policy:**

Effective with the July 1, 2008 valuation, a funding policy was adopted that determines total funding policy contributions based on the Plan's Normal Cost adjusted by an amortization of any surplus or underfunding. The funding policy was amended in September 2010, effective with the July 1, 2010 actuarial valuation.

The UCRP funding policy has the following structure and parameters:

- (1) The funding policy is effective with the July 1, 2008 actuarial valuation and determines total funding policy contributions starting with the Plan Year beginning July 1, 2009.
- (2) Each year the funding policy contributions would be effective for the Plan Year starting one year after the date of the actuarial valuation.
- (3) Each year the Regents will determine the actual total contributions and the split between Member Contributions and University Contributions based on the total funding policy contributions and various other factors, including the availability of funds, the impact of employee contributions on the competitiveness of UC's total remuneration package, and collective bargaining. In no event shall the University Contributions be lower than the Member Contributions.
- (4) The funding policy determines total funding policy contribution rates based on an actuarial valuation of the non-laboratory segment of UCRP (i.e., campuses, medical centers and Hastings College of the Law). The Lawrence Berkeley National Laboratory contributes on the same basis as determined for the non-laboratory segment of UCRP, subject to the terms of the University's contract with the Department of Energy. The Lawrence Livermore National Laboratory and Los Alamos National Laboratory Retained Segments in UCRP are subject to the funding policies outlined in the University's contracts with the Department of Energy. Throughout this funding policy, the term "UCRP" refers to the non-laboratory segment of UCRP.

- (5) The total funding policy contributions to UCRP consists of the Normal Cost plus an amortization charge for any Unfunded Actuarial Accrued Liability (UAAL) or minus an amortization credit for any surplus.
- (6) The Regents' Consulting Actuary conducts an annual actuarial valuation of UCRP. The Normal Cost and the Actuarial Accrued Liability (AAL) in each actuarial valuation is determined under the Entry Age Normal Actuarial Cost Method, using actuarial assumptions adopted by the Regents.
- (7) The asset smoothing method used to determine the Actuarial Value of Assets is based on the Market Value of Assets adjusted for "unrecognized returns" in each of the last five years. Unrecognized return is the difference between actual and expected returns on a market value basis and is recognized over a five-year period.
- (8) As of the effective date of this policy, any initial surplus as of that date is amortized as a level dollar amount over a period of three years.
  - a. Any changes in surplus after the effective date due to actuarial gains and losses (including contribution gains and losses) would be amortized as a level dollar amount over 15 years.
  - b. Any change in surplus due to a change in actuarial assumptions, cost method or asset smoothing method would be amortized as a level dollar amount over 15 years.
  - c. Any change in surplus due to a Plan amendment would be amortized as a level dollar amount over 15 years.
  - d. In the first year after the effective date when UCRP has a UAAL all amortization bases would be considered fully amortized and contributions would be determined under the remaining provisions of this policy.

- (9) For any year when UCRP has a UAAL, the calculation of the UAAL would be maintained by source (as listed below) and each new portion of or change in UAAL would be amortized as a level dollar amount over a fixed amortization period.
  - a. Any initial UAAL (after a period of surplus) or change in UAAL due to actuarial gains and losses (including contribution gains and losses) would be amortized over 30 years.
  - b. Any change in UAAL due to a change in actuarial assumptions, cost method or asset smoothing method would be amortized over 15 years.
  - c. Any change in UAAL due to a Plan amendment would be amortized over 15 years, unless a shorter period is adopted by the Regents reflecting the nature of the Plan amendment.
- (10) For any year in which UCRP has a surplus, such surplus would be amortized as a level dollar amount over 30 years, and all prior UAAL amortization bases would be considered fully amortized.
- (11) Effective July 1, 2010, all UAAL amortization bases as of July 1, 2010 will be combined and the combined base will be amortized as a level dollar amount over 30 years.
- (12) This funding policy supersedes any previous funding policies.

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