

Actuarial Valuation

June 30, 2010

Bу

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January 5, 2011

Retirement Board Kern County Employees' Retirement Association 11125 River Run Blvd Bakersfield, CA 93311

Dear Members of the Board:

As requested, we performed an actuarial valuation of the Kern County Employees' Retirement Association (KCERA) as of June 30, 2010 for determining contributions for the fiscal year beginning July 1, 2011. Our findings are set forth in this actuary's report. This report reflects the benefit provisions in effect as of the valuation date.

In preparing this report, we relied, without audit, on information (some oral and some in writing) supplied by the Association's staff. This information includes, but is not limited to, statutory provisions, employee data, and financial information. We found this information to be reasonably consistent and comparable with information used for other purposes. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete our results may be different and our calculations may need to be revised.

All costs, liabilities, rates of interest, and other factors for the Association have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of the Association and reasonable expectations); and which, in combination, offer a reasonable estimate of anticipated experience affecting KCERA.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as a change in the amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements. The Board of Retirement has the final decision regarding the appropriateness of the assumptions and adopted them as indicated in Appendix A.

Actuarial computations presented in this report are for purposes of determining the recommended funding amounts for KCERA. Actuarial computations presented in this report under GASB Statements No. 25 and 27 are for purposes of fulfilling financial accounting requirements. The computations prepared for these two purposes may differ as disclosed in our report. The calculations in the enclosed report have been made on a basis consistent with our understanding of the Association's funding requirements and goals. The calculations in this

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report have been made on a basis consistent with our understanding of the plan provisions described in Appendix B of this report, and of GASB Statements No. 25 and 27. Determinations for purposes other than meeting these requirements may be significantly different from the results contained in this report. Accordingly, additional determinations may be needed for other purposes.

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The consultants who worked on this assignment are pension actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.

We would like to express our appreciation to members of KCERA's staff, who gave substantial assistance in supplying the data on which this report is based.

We respectfully submit the following report, and we look forward to discussing it with you.

Sincerely,

Kan D. Step

Karen I. Steffen, FSA, EA, MAAA Consulting Actuary KIS/DRW/nlo

Daniel Woole

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Section 1: Summary of Findings



The following chart presents a summary of the calculated Employer contribution rates as of last year (the middle column) and this year (the left column). The two columns on the right indicate the net change in contributions. Reasons for the changes are discussed in this report.

Overview

The June 30, 2010 rates are for the 2011-2012 fiscal year. The June 30, 2009 rates are those adopted for the 2010-2011 fiscal year.

Employer Contribution Rates:

	June 30, 2010 Total Calculated Rates	June 30, 2009 Adopted Rates	Increase (Decrease) Total Calculated Rates
General - County Tiers I&II w/o Courts	34.98%	33.07%	1.91%
Safety	51.30%	46.70%	4.60%
General - County - Court Employees	34.83%	32.02%	2.81%
General - Districts Category I	36.36%	35.07%	1.29%
General - Districts Category II	35.87%	34.72%	1.15%
General - Districts Category III	34.28%	32.84%	1.44%
General - Districts Category IV	32.96%	31.80%	1.16%
General - Districts Category V	33.06%	33.64%	-0.58%
Total Plan	38.98%	36.42%	2.56%

Projected Employer Contribution Dollars:

(all amounts in millions)

	Total	e 30, 2010 Calculated Rates	Ad	e 30, 2009 dopted Rates	Increase (Decrease) Total Calculated Rates		
General - County Tiers I&II	\$	133.1	\$	126.0	\$	7.1	
Safety	\$	73.5	\$	67.3	\$	6.2	
Total County excluding Court Employees	\$	206.6	\$	193.3	\$	13.3	
General - County - Court Employees	\$	8.5	\$	7.9	\$	0.6	
General - Districts Category I	\$	2.4	\$	2.4	\$	-	
General - Districts Category II	\$	1.0	\$	0.9	\$	0.1	
General - Districts Category III	\$	7.8	\$	7.1	\$	0.7	
General - Districts Category IV	\$	0.2	\$	0.3	\$	(0.1)	
General - Districts Category V	\$	0.3	\$	0.2	\$	0.1	
Total Plan	\$	226.8	\$	212.1	\$	14.7	

This work product was prepared solely for the KCERA. It may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work. Summary of Changes The following discusses significant changes since the last valuation. The financial impact of these changes is shown in detail in Exhibit 17 on pages 50 and 51.

 Investment Returns: KCERA's investment returns were 14.24% since the prior valuation on a Market Value of Assets (MVA) basis. However, due to the asset smoothing method, only a small portion of the gains from July 1, 2009 through June 30, 2010 are recognized with this valuation.
 Meanwhile, large deferred losses from 2007 and 2008 are being recognized, as well as deferred gains from 2005 through 2006.

After applying the asset-smoothing method, the rate of return on the Actuarial Value of Assets (AVA) was 0.22%, significantly lower than the assumed rate of 7.75%. Note that as of the valuation date, \$598.6 million of net investment return losses are being deferred. These deferred losses will be reflected in future valuations. As they are reflected, it is likely that the employer contribution rates will need to increase further.

The Valuation Assets gained 0% since last year as the small increases in the AVA were applied to the Contingency Reserve in accordance with KCERA's current interest crediting policy. Note that the Contingency Reserve continues to be negative and is not reflected in the Valuation Assets.

To prevent the AVA from deviating too much from the MVA, it has been KCERA's practice to apply an asset corridor limit on the AVA, such that the AVA stays within a certain percentage of the MVA. At its April 22, 2009 meeting, the Board of Retirement voted to increase the corridor from 20% to 50%. This means that, after the smoothed value of assets is calculated, the smoothed value is compared to 50% of MVA and 150% of MVA. If the smoothed value is within that range, the smoothed value is used. If the smoothed value is higher than 150% of MVA, then the AVA is set equal to 150% of MVA. Similarly, if the smoothed value is lower than 50% of MVA, the AVA is set equal to 50% of MVA. As of June 30, 2010, the AVA is 126% of the MVA. Summary of Changes (continued) • Experience since prior valuation: Demographic and salary experience since the prior valuation led to changes in the employer contribution rates. Some experience gains and losses are to be expected as part of the normal variation between actual and expected experience. The changes due to actual experience were well within a reasonable level of expected fluctuation.

Significant experience included the gains due to COLAs for recent retirees being less than expected, gains due to salary increases being less than expected, and large investment losses on the basis of the Valuation Assets.

 Tier II: Effective October 27, 2007, the County Board of Supervisors adopted new retirement benefits for most KCERA County General members hired on or after that date. North of the River Sanitation District adopted the new retirement benefits effective October 29, 2007. The Kern County Water Agency adopted the new retirement benefits as of January 1, 2010. As of June 30, 2010, no new hires have entered the Kern County Water Agency since the adoption of Tier II, and therefore, the District has no members accruing benefits under the new tier. It is our understanding that no other districts have adopted the new retirement benefits as of June 30, 2010, the date of this valuation.

See Appendix B for a more detailed description of the benefits provided under Tier I and Tier II for General members. Per the current Funding Policy, separate total Normal Cost and total member contribution offset calculations are performed for Tier I and Tier II categories. As new employees enter the lower cost Tier II plan, the General contribution rates will decrease over time.

The following table summarizes the total change in contribution rates that occurred since the 2009 valuation, for each of the three major cost sharing groups. Further details of these changes are presented in Exhibit 17, on pages 50 and 51.

	General County with Courts	General District	Safety	Total
June 30, 2009 Actuarial Valuation	33.00%	33.45%	46.70%	36.42%
June 30, 2010 Actuarial Valuation	34.97%	34.76%	51.30%	38.98%
Change	1.97%	1.31%	4.60%	2.56%

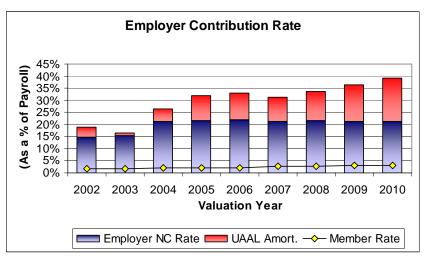
Summary of Recommendations	Exhibit 1, found at the end of this Section, summarizes this year's valuation results and compares them to the prior valuation report. The June 30, 2009 rates are those adopted for the 2010-2011 fiscal year. The recommended employer contribution rates for the fiscal year commencing July 1, 2011 are shown by contributing employer groups on page 1. Member contribution rates, also effective July 1, 2011 are shown in Appendix D. Note that the member contribution rates have not changed with this valuation.
	It should be noted that the contribution rates and liability calculations in this report do not reflect the value of any additional benefits that may result from future excess investment earnings that could lead to either:
	 Future reductions in employer contributions due to future fund transfers to the COLA Contribution Reserve (CCR), or
	 Future Supplemental Retirement Benefit Reserve (SRBR) benefits that may become payable due to future fund transfers to the SRBR reserve.
Funding Status	The Funded Ratio for the Regular Benefits decreased from 66% to 63%.
	In accordance with the Board's funding policy, the funding status is measured using the Valuation Assets. As of June 30, 2010, the Market Value of Assets is 82% of the Valuation Assets. Thus, on a market value basis, the Funded Ratio for the Regular Benefits would be about 52%.
	The funding status for the SRBR approved benefits decreased from 201% in the 2009 valuation to 199% for this June 30, 2010 valuation. A funded ratio over 100% indicates the SRBR unallocated reserve assets are more than sufficient to meet the expected benefit obligations for approved benefits. The portion of the assets greater than the present value of the approved benefits is referred to as the Funding Excess Amount.
	The remainder of this Section and Sections 2-7 discuss KCERA's financial status as of June 30, 2010.
Employer Contribution Rate	Under the Board's current funding objectives, the total calculated Employer contribution rate is 38.98% of payroll. This is equal to the payment of the normal cost rate plus a 25.5-year amortization of the Unfunded Actuarial Accrued Liability (UAAL). It should be noted that the 38.98% is a weighted average for all KCERA employers and for both General and Safety members. The actual percentage of payroll to be contributed by each employer for each member varies by their benefits and member contributions.

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Employer Contribution Rate (continued) The new rates are effective for the fiscal year beginning July 1, 2011. The 38.98% total contribution rate is adequate to maintain the funding of the retirement system based on the current actuarial methods and assumptions and satisfies the funding policy objectives that call for the UAAL to be paid off by December 31, 2035.

See Exhibits 14-16 for the employer contribution rates by group and class.

A historical perspective of the total Employer contribution rate is shown in the following graph.



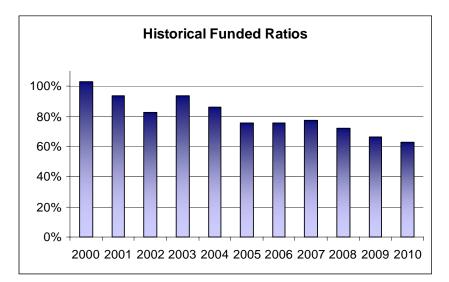
Member RatesThe member contribution rates are projected to average about
3.02% of pay for contributory cost groups. This rate should
increase over time as new hires contribute for 30 years of
service, while most current employees only contribute for the first
five years of service. See the description of member contribution
rates in Section 5. Member contribution rates changed effective
July 1, 2009 based on the results of the 2008 Experience Study
and changes in the actuarial assumptions.



This work product was prepared solely for the KCERA. It may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work. **Funding Progress** One measure of the funding adequacy of the plan is the Funded Ratio which compares the value of the Valuation Assets (Actuarial Value of Assets net of certain non-valuation reserves) to the Actuarial Accrued Liability (AAL), for all KCERA employers combined. KCERA's Funded Ratio increased rapidly in the last half of the 1990s, reaching 103.3% in 2000. However, due primarily to asset losses and benefit improvements, the Funded Ratio has decreased significantly since then. Currently, the Funded Ratio is 62.7%; that is, the Valuation Assets of \$2.8 billion are about 37% less than the Actuarial Accrued Liabilities of \$4.5 billion.

Note that the June 30, 2010 Market Value of Assets is less than the present value of benefits (PVB) for inactive members.

	Year	 larket /alue	 luation ssets	 ccrued iability	Funded Ratio	 active PVB	Active AAL
31-Dec	2000	\$ 1,619	\$ 1,435	\$ 1,389	103.3%		
31-Dec	2001	\$ 1,511	\$ 1,508	\$ 1,612	93.6%		
31-Dec	2002	\$ 1,385	\$ 1,570	\$ 1,899	82.7%	\$ 925	\$ 974
31-Dec	2003	\$ 2,016	\$ 1,928	\$ 2,059	93.6%	\$ 1,067	\$ 992
31-Dec	2004	\$ 2,225	\$ 2,013	\$ 2,336	86.1%	\$ 1,147	\$ 1,189
31-Dec	2005	\$ 2,396	\$ 2,164	\$ 2,862	75.6%	\$ 1,437	\$ 1,425
31-Dec	2006	\$ 2,782	\$ 2,352	\$ 3,109	75.7%	\$ 1,629	\$ 1,480
31-Dec	2007	\$ 2,955	\$ 2,590	\$ 3,356	77.2%	\$ 1,774	\$ 1,582
30-Jun	2008	\$ 2,711	\$ 2,654	\$ 3,672	72.3%	\$ 1,914	\$ 1,758
30-Jun	2009	\$ 2,025	\$ 2,780	\$ 4,205	66.1%	\$ 2,159	\$ 2,046
30-Jun	2010	\$ 2,301	\$ 2,795	\$ 4,457	62.7%	\$ 2,381	\$ 2,076



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Assets	For the 12-month period ending June 30, 2010, we estimate that KCERA earned 14.24%, net of all expenses, on its market value of assets.
	KCERA uses an asset-smoothing method in the determination of valuation assets used in the calculation of its UAAL contribution. Under this method, the market value returns are smoothed over a five-year period. Due to the smoothing of the assets and the use of the Contingency Reserve per the Board's current interest crediting policy, the return on the Valuation Assets was 0.00%, significantly lower than the assumed rate of return.
Allocation of Assets and Cost Sharing	Currently, both the normal cost and UAAL portions of the employer contribution rate are calculated separately for each cost group. Cost sharing in setting the normal cost rate occurs across all General members within each benefit level, Tier I or Tier II, regardless of employer, and is based on the expected future benefit accruals.
	Member contribution rates vary widely between different employer groups. Beginning with the 2005 valuation, the Court employees, formerly reported as part of the larger County General membership, are reported as a separate employer cost group, since they are now paying a higher member rate than the other County General members. Other cost groups use a weighted average of expected member contributions to set the Employer's net Normal Cost rate.
	The Board's funding policy creates certain cost groups for determining the UAAL contribution rates. The UAAL contribution rate varies by General, District and Safety cost groups. To determine the UAAL amount by cost group, the valuation assets are allocated by these different employer cost groups. Currently, the reserve funds are separated between the County General members, the District General members in aggregate and the County Safety members.
	However, the Retired Member Reserves are not separated between the County General and the District General members. Starting with the 2004 valuation, those assets are allocated based on the value of the total actuarial value of benefits for those two groups. Thus, the final allocation of the actuarial value of assets cannot be determined until the valuation of liabilities has been determined.

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Allocation of Assets and Cost Sharing (continued)

ASOP 4 Disclosure regarding Excess Earnings In addition, the portion of the SRBR fund allocated to the 0.5% COLA benefits under the Ventura settlement is not allocated among cost groups. Those funds have been allocated based on the value of the 2.0% COLA reserves for the three major cost groups: County General, District General and Safety members.

Note that the 0.5% COLA benefits have a current AAL of \$284.0 million compared to the allocated SRBR fund for those benefits of \$77.2 million. The difference is included in each cost group's UAAL contribution rate.

This valuation does not include the valuation of future excess earnings adjustments, which will reduce the valuation assets available to fund the regular pension benefits. The transfers to the SRBR could lead to additional SRBR benefits. The Actuarial Standard of Practice #4 (ASOP4) requires that this disclosure be made.

As an Article 5.5 or SRBR plan, when excess earnings occur, the Retirement Board is required to set aside a portion of those excess earnings of KCERA's fund to the SRBR reserve account. Based upon KCERA's current interest crediting policy and the adoption of Section 31617 of the '37 Act, excess earnings would first need to fund the CCR to pay the employers' share of the contributions for the regular 2% COLA benefits. After that, a 50% allocation of any remaining excess earnings is made to the SRBR reserve. As of June 30, 2010, the total SRBR is \$198.9 million, including the portion of the SRBR allocated for the 0.5% COLA benefit.

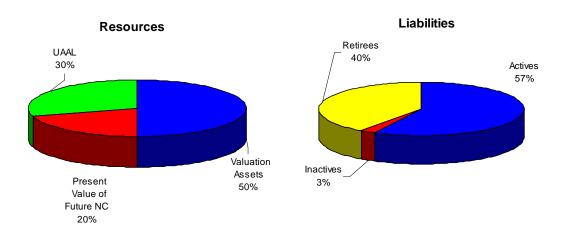
The fund uses excess earnings to reduce contributions from employers (through the CCR) and credit the SRBR when returns exceed expectations. However, there is no corresponding ability to collect additional revenue when investment returns lag expectations. Because of this, the excess earnings provisions result in a reduction in the expected investment return available to fund KCERA's regular pension benefits.

The fund can expect volatile returns in future years, including many years above the assumed 7.75% rate of return and many years below 7.75%. If the fund averages 7.75% and a portion of the excess actuarial returns are used for the CCR and SRBR, the return on valuation assets will be less than 7.75%. As discussed in the 2008 Experience Study report, over time the excess earnings transferred to the SRBR alone could reduce the net earnings to fund the base retirement benefits by 0.50% or more. The Board should review this issue at the time of the new Experience Study in 2011.

Actuarial Balance Sheet

The first step in the valuation process is to compare the total Valuation Assets of KCERA with its total liabilities for all cost groups. In this analysis, KCERA's resources equal the assets currently on hand, at the actuarial value, and also expected future contributions by both the employers and members. Liabilities reflect benefits already earned in the past and those expected to be earned in the future by current members. This relationship is shown in the following chart. The AAL is the total of the benefit liabilities less expected future normal cost contributions.

Comparing the current and future resources to the current and future liabilities, we then determine the annual contribution amount for the coming fiscal year.



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SRBR The Supplemental Retirement Benefit Reserve (SRBR) is a separate reserve allocation of the KCERA actuarial value of assets. Additions are made to the SRBR if "Excess Earnings" occur and the SRBR receives regular annual interest credits. The benefits payable from the SRBR is limited to the funds available in the SRBR.

> As part of the Ventura legal settlement in 2001, a portion of the SRBR funds, \$64.7 million, was set aside to be used to pay for the additional 0.5% COLA benefits to retired members. The actuarial value of this special allocation of the SRBR fund on June 30, 2010 is \$77.2 million. The remaining SRBR funds are equal to \$121.7 million.

The Board measures the future SRBR benefits under three scenarios:

- a. Approved benefits: Represents the value of the SRBR benefits approved by the Board as of the valuation date and does not include any future additional SRBR benefits to either retired or active members.
- b. Target benefits: The Board has established a measurement under a policy commonly referred to as the "20/20" policy where the value of certain approved benefits (i.e., death benefits. SRBR1 and SRBR2) are valued along with a 20% additional reserve for future experience. The SRBR3 benefits are projected for both active and retired members for the next 20 years.
- c. Future benefits: This represents the actuarial value as of the valuation of all levels of SRBR benefits to all current retired and active members.

The following chart indicates the funded ratio of the SRBR benefits under these three measurements as of June 30, 2010:

	Funded Ratio
Approved benefits	199.0%
Target benefits, including 20% reserve amounts	158.5%
Future benefits	155.6%

The SRBR Funded Ratio, when including all future benefits, increased since the 2010 valuation primarily due to the fact that CPI used to calculate the projected SRBR3 benefits has dropped since the last valuation. The purchasing power SRBR3 benefit is highly leveraged on inflation, and the decline in CPI caused a substantial drop in the projected value of benefits.

Detailed information on the SRBR benefits is described in Section 8 of this report.

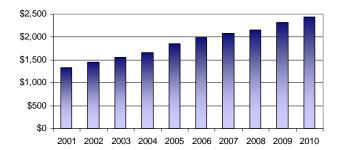
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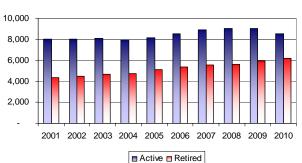
Member Information The number of active members included in the valuation decreased by 5.0% from 9,020 in 2009 to 8,567 in 2010.

Retired member counts and average retirement benefit amounts continue to increase steadily. For 2010, there were 6,199 retired members and beneficiaries with an average benefit of \$2,438 per month. This represents a 4.6% increase in count and a 5.4% increase in the average monthly benefit.

The average actuarial present value of all future benefits per person for General Actives and Retirees (including beneficiaries) were \$318,456 and \$275,233, respectively, while the average present value of future benefits per person for Safety Actives and Retirees were \$592,072 and \$618,503.



Average Monthly Retirement Benefit



Membership Count







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Exhibit 1: Summary of Recommendations

(All dollar amounts in millions except where noted)

	June 3	0, 2009	June 3	0, 2010	Change
Total Membership					
A. Active Members	9,0)20	8,5	-5.02%	
B. Retired Members & Beneficiaries	5,9	27	6,1	99	4.59%
C. Vested Terminated Members	1,3	316	1,2	13	-7.83%
D. Terminated Members Pending Refund	4	<u>59</u>	<u>63</u>	34	38.13%
E. Total	16,	722	16,0	613	-0.65%
Pay Rate as of Valuation Date					
A. Annual Total Covered Payroll	\$56	64.9	\$56	4.6	-0.05%
B. Annual Average (\$ not in millions)	\$62	,628	\$65,	899	5.22%
Average Monthly Benefits Paid to Current Retirees and Beneficiaries (\$ not in mi	llions)				
A. Service Retirement	•	569	\$2,0	399	5.06%
B. Disability Retirement		303	. ,	424	5.25%
C. Surviving Spouse and Dependents		220	. ,	284	5.25%
D. Total		314	\$2,4		5.36%
. Funded Status- Regular Benefits					
A. Actuarial Accrued Liability	\$4,	205	\$4,4	457	5.99%
B. Valuation Assets	\$2,	780	\$2,	795	0.53%
C. Unfunded Actuarial Accrued Liability	\$1,	425	\$1,662		16.66%
D. Funded Ratio based on Valuation Assets	66.	1%	62.7%		-5.14%
E. Market Value of Assets	\$2,	025	\$2,301		13.65%
F. Funded Ratio on Market Value of Assets	48.	2%	51.	6%	7.22%
Funded Status- SRBR					
A. Present Value of Approved Benefits	\$63.8		\$6	1.2	-4.08%
B. SRBR Assets not allocated to 0.5% COLA	\$12	\$128.5		1.7	-5.29%
C. Unfunded Approved SRBR	(\$6	4.7)	(\$6	0.5)	-6.49%
D. Funded Ratio	20	1%	199	9%	-1.27%
. Required Employer Contribution	Before CCR	After CCR	Before CCR	After CCR	
Total Plan	37.71%	37.71%	38.98%	38.98%	
I. Key Assumptions					
Interest Rate	7.7	5%	7	.75%	
Wage Inflation		0%		.00%	
Price Inflation		5%		.25%	

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Section 2: Scope of Report



In reading our cover letter, please pay particular attention to the guidelines employed in the preparation of this report. We also comment on the sources and reliability of both the data and the actuarial assumptions upon which our findings depend. Those comments are the basis for our certification that this report is complete and accurate to the best of our knowledge and belief.

A summary of the findings resulting from this valuation is presented in the previous section. Section 3 describes the assets and investment experience of KCERA. The assets and investment income are presented in Exhibits 2-4. Exhibits 5-7 develop the Actuarial Value of Assets as of June 30, 2010.

Section 4 describes the benefit obligations of KCERA. Exhibit 10 presents the actuarial value of projected benefits. We also discuss the normal cost, actuarial accrued liability, and funded ratios.

Section 5 discusses the Member contribution rates.

Section 6 discusses the Employer contributions needed to fund the benefits under the actuarial cost method in use.

Section 7 discloses the information required under Statement No. 25 of the Governmental Accounting Standards Board (GASB).

Section 8 provides the valuation of the SRBR funds and benefit obligations.

Section 9 illustrates the expected level of benefit payments to be paid to current members.

This report includes the following appendices:

- Appendix A A summary of the actuarial procedures, and assumptions used to estimate liabilities and contributions.
- Appendix B A summary of the current benefit structure, as determined by the provisions of governing law on June 30, 2010.
- Appendix C Schedules of valuation data classified by various categories of plan members.
- Appendix D Member contribution rates by plan.
- Appendix E A glossary of actuarial terms used in this report.

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Section 3: Assets



In many respects, an actuarial valuation can be thought of as an inventory process. The inventory is taken as of the actuarial valuation date which, for this valuation, is June 30, 2010. On that date, the assets available for the payment of retirement benefits are appraised. These assets are compared with the actuarial liabilities, which are generally well in excess of the actuarial assets. The purpose of the valuation is to determine what future contributions by the members and employers are needed to pay all expected future benefits.

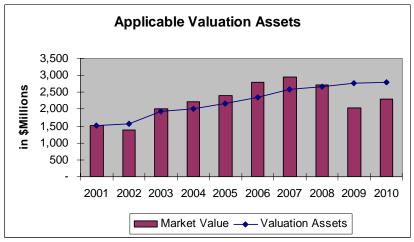
This section of the report deals with the determination of assets used for funding purposes. In the next section, the actuarial liabilities will be discussed. Sections 5 and 6 deal with the process for determining required contributions based on the relationship between the actuarial assets and the actuarial liabilities. A historical summary of the KCERA's assets is presented below:

		A	All dollar amount	s in millions		
						Market Value as
	ſ	Market	Ad	ctuarial Value)	Percentage
	V	alue of	Non-Valuation	Valuation		of Actuarial
	Tot	al Assets	Reserves*	<u>Assets</u>	Total	Value
December 31						
2001	\$	1,511.3	\$163.6	\$1,508.3	\$1,671.9	90%
2002		1,384.9	91.6	1,570.3	1,661.9	83%
2003		2,016.2	114.0	1,927.6	2,041.6	99%
2004		2,224.9	119.5	2,012.5	2,132.0	104%
2005		2,395.6	113.5	2,164.3	2,277.8	105%
2006		2,781.8	158.2	2,352.0	2,510.2	111%
2007		2,954.9	240.8	2,589.8	2,830.6	104%
June 30						
2008		2,711.1	254.3	2,654.3	2,908.6	93%
2009		2,025.2	124.8	2,780.2	2,905.0	70%
2010		2,301.4	105.4	2,794.6	2,900.0	79%

* Non-valuation reserves are the SRBR funds not allocated to the 0.5% COLA, the Contingency Reserve and the COLA Contribution Reserve.

Assets	On June 30, 2010, the total market value of the fund was \$2.301 billion. The actuarial value of the fund was determined to be \$2.900 billion, including the non-valuation reserves. The actuarial value is 126% of the market value of assets as of June 30, 2010. There are \$598.6 million of deferred investment losses yet to be recognized. The Market Value of Assets (MVA) includes all plan assets. The Valuation Assets of \$2.795 billion includes only those assets that are taken into account in determining employer contribution rates for the Regular Benefits. These exclude the unallocated portion of the Supplemental Retiree Benefit Reserve, the Contingency Reserve and the COLA Contribution Reserve (CCR).
Financial Exhibits	Exhibit 2 presents a Statement of Plan Net Assets and Exhibit 3 presents a Statement of Changes in Plan Net Assets. Exhibit 4 shows the determination of the asset gains and losses over each six-month period for the past five years. Exhibit 5 displays the Market Stabilization Reserve from the smoothed gains and losses over the past five years. Exhibit 6 presents the allocation of KCERA's assets by the various reserve values determined for accounting purposes as reported to us by KCERA.
	Exhibit 7 has the reconciliation of asset values between the prior actuarial valuation and the current valuation. It has the reconciliation for market value, actuarial value of assets, and the valuation asset loss. Exhibits 8 and 9 are discussed below. Exhibits 2-6 are taken directly from data furnished to us by KCERA in their annual financial report. We have accepted these
	tables for use in this report without audit, but we have reviewed them for reasonableness and consistency with previous reports.
Actuarial Asset Method	The AVA is calculated every six months. The expected MVA is based on the prior period's market value of assets, the actual cash flow of contributions and benefit payments, and the assumed investment rate of return. The assumed rate of return used is one-half of the annual rate. For periods through June 30, 2009, this was 4.00% (one-half of 8.00%), net of all expenses. Beginning with the period ending December 31, 2009, this assumed rate was 3.875% (one-half of the current assumption for investment earnings, 7.75%). The difference between the actual market value and the computed expected market value is smoothed, or recognized over 10 six-month periods.

Actuarial Value of Assets	The development of the June 30, 2010 AVA is shown in Exhibit 5. The result is an AVA that is higher than the market value, indicating past investment losses exceed the past investment gains yet to be recognized.					
	The Market Stabilization Reserve is the portion of prior year's asset gains or losses not recognized in the AVA.					
	Note that an asset corridor of 50% is applied to the AVA. This means that after the smoothed value of assets is calculated, it is compared to 50% of MVA and 150% of MVA. If the smoothed value is within that range, as it the case here, the AVA is set equal to the smoothed value. If the smoothed value were higher than 150% of MVA, then the AVA is set equal to 150% of MVA. Similarly, if the smoothed value is lower than 50% of MVA, the AVA is set equal to 50% of MVA.					
	At its April 22, 2009 Board meeting, the Board widened the corridor from 20% to 50%, effective December 31, 2008.					
Valuation Reserves	Valuation Assets are the actuarial value of the fund, less the value of any reserves which have been set aside for current liabilities and special benefits that are to be funded outside of the actuarially determined contribution rates. These are the Contingency Reserve, the SRBR Reserve not allocated to the 0.50% COLA and the COLA Contribution Reserve. Exhibit 6 shows the allocation of the Actuarial Value of Assets by accounting reserve accounts and then determines the total value of the Valuation Reserves.					



Note that for years prior to 2008, the valuation date was December 31.

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Allocation of Assets	The allocation of valuation assets by cost group (County General, District General and Safety) is shown in Exhibit 8. This is done because UAAL contribution rates are determined separately by cost group.							
	The Member Deposit Reserves, Employer Advance Reserves, and Cost-of-Living -2% Reserves are allocated by Cost Group by KCERA. The SRBR 0.5% COLA Reserves are allocated in proportion to the Cost-of-Living Reserves. The Retired Member Reserves for General and District members are allocated based on the present value of benefits for each group.							
COLA Contribution Reserve	In Exhibit 9 we show the CCR from June 30, 2009 through June 30, 2010 allocated by Cost Group. We also show the estimated value as of December 31, 2010, which would be used to offset the 2011-2012 contribution. Note that it is estimated that the December 31, 2010 value will be zero and, therefore, there is not expected to be a CCR offset for 2011-2012.							
Interest Crediting Policy	The Retirement Board has established a policy to determine the crediting of interest to reserves under KCERA. Interest credits are based on the smoothed actuarial value of assets and are determined for each six-month calendar year period ending June 30 and December 31. The current policy applicable to the fiscal year ending June 30, 2010 is described below. Note that the Retirement Board is currently considering changes to the policy.							
	Interest Credit Allocation When Earnings are in Excess of the Assumed Rate of Earnings							
	The following is a brief summary of the order of precedence if interest credits remain to be allocated when earnings are in excess of the assumed rate. This has not been the case in the prior year. The numbers in brackets refer to the applicable section of the County Employees Retirement Law of 1937 (CERL).							
	 Credit the Contingency Reserve until it is equal to 1% of the MVA. [31616] 							
	2. Credit the Valuation Reserves (Member Deposit, Employer Advance, COLA and Retired Member Reserves) and the SRBR Reserves and the CCR at a rate up to one-half of the assumed valuation interest rate. [31615]							
	 Credit the Contingency Reserve until it is equal to 3% of the MVA. [31616] 							
	4. Credit the CCR with a dollar amount equal to the 2% COLA contributions payable by all employers for the six-month period ending on the date of the interest determination. This allocation is made even if CCR funds were used rather than actual contributions made for the six-month period. [31617]							

Interest Crediting Policy (continued)

- 5. Fifty percent of any remaining interest credits are applied to the SRBR (the unallocated portion of the SRBR reserve, not the portion set aside for the 0.5% COLA benefits). [31618]
- 6. The other 50% of the remaining interest credits are applied to all the Valuation Reserves and the CCR in proportion to the amounts in each of those reserves, on the balance in the fund for at least six full months. The allocated SRBR fund amount does not participate in this allocation of remaining earnings. [31619]

Per Section 31617 of the CERL, the "cost- of-living" *contribution* shall come from excess earnings on the fund. Thus, the CCR results are used as an offset to the employer contributions otherwise payable as a contribution rather than as an offset to the liability for the 2% cost-of living benefits. For purposes of crediting interest, the CCR is treated the same as the Valuation Reserves. For purposes of determining contribution rates, the CCR is excluded from Valuation Assets, since it is used later as contribution credits.

Any funds in the CCR as of the December 31 before the fiscal year will be used to offset the required 2.0% COLA contributions for the subsequent fiscal year, commencing on July 1. Such amounts will be transferred from the CCR to the 2.0% COLA Reserves on July 1. Any interest earned on the CCR after December 31 will remain in the CCR account and used towards the subsequent year's determination of the credits.

There was a CCR balance as of December 31, 2008 and that balance was used to reduce contributions for the 2009-2010 fiscal year. There was no offset based on the CCR at December 31, 2009. There is not expected to be any balance in the CCR account as of December 31, 2010. Please see Exhibit 9 for more detail.

Interest Credit Allocation When Earnings are Positive, But Not in Excess of the Assumed Rate of Earnings

If earnings on the Actuarial Value of Assets are positive, but not greater than the amount needed to credit the Valuation Reserves, the CCR and the SRBR at a rate equal to one-half of the assumed interest rate, the earnings are allocated as follows.

- 1. The Contingency Reserve is set equal to 1% of the MVA.
- 2. The Valuation Reserves, CCR, and the SRBR are credited with earnings up to a rate of one-half of the assumed interest rate.

Interest Crediting Policy (continued)

3. If earnings are insufficient to credit the Valuation Reserves, CCR, and the SRBR at a rate of one-half the assumed interest rate, the Contingency Reserve will be reduced as needed (but not lower than zero) to allow the Valuation Reserves, the CCR and the SRBR to be credited at a rate of up to one-half of the assumed interest rate.

At both December 31, 2009 and June 30, 2010, the earnings on the Actuarial Value of Assets were positive, but significantly less than the assumed rate of earnings. The earnings based upon Actuarial Value of Assets were \$1.5 million in the first half of the fiscal year and \$4.9 million in the second half of the year.

Based upon the policy stated above, the Contingency Reserve received the earnings credit. The Contingency Reserve was negative \$22.7 million as of June 30, 2009. After receiving the \$1.5 million credit as of December 31, 2009 and the \$4.9 million as of June 30, 2010, the Contingency Reserve was negative \$16.4 million. The CCR, SRBR and the other valuation reserves were credited with no interest in the past year.

Interest Credit Allocation When Earnings are Less Than Zero

When the earnings on the Actuarial Value of Assets are negative, the following approach is used in order to limit crediting and contribution rate volatility during declines in the market.

- 1. The Valuation Reserves, CCR, and the SRBR are credited with 0% interest.
- 2. The Contingency Reserve is reduced as needed to cover the loss during the period.

The KCERA Board will recognize the full amount of the investment loss if either of the following events occurs:

- 1. The Contingency Reserve is less than zero for six consecutive periods.
- 2. The Contingency Reserve has a negative balance that is greater than 5% of the MVA.

If either of these events occurs, the Contingency Reserve will be reset to zero and the total accumulated losses will be allocated between the Valuation Reserves, the CCR and the SRBR in proportion to the amounts in those reserves. Note that as of June 30, 2010, the Contingency Reserve does not meet the above criteria as it is only the third period with a Contingency Reserve less than zero.

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Exhibit 2: Statement of Plan Net Assets As of June 30, 2010 and 2009

	June 30, 2010	June 30, 2009
Assets		
Cash in County Pool Short-Term Investment Funds	\$	\$
Total Cash and Short-Term Investment Funds	80,369,984	79,990,408
Receivables:		
Investments Sold	104,789,336	68,919,657
Interest and Dividends	7,392,463	8,421,352
Contributions and Other Receivables	1,785,079	1,684,232
Total Receivables	113,966,878	79,025,241
Investments at Fair Value:		
U.S. Debt Securities and Bonds	647,328,348	675,793,306
International Bonds	86,252,103	82,333,667
Domestic Equities	646,326,088	515,880,069
International Equities Real Estate Investments	538,417,752	485,443,135
Alternative Investments	26,656,941 298,484,473	26,678,611 213,757,148
Collateral Held for Securities Lending	237,933,424	150,203,682
Total Investments	2,481,399,129	2,150,089,618
Computer Software	2,568,080	1,232,012
Equipment/Computers	444,629	434,995
Accumulated Depreciation	(253,751)	(180,696)
Total Capital Assets	2,758,958	1,486,311
Total Assets	2,678,494,949	2,310,591,577
Liabilities		
Securities Purchased	136,551,054	129,977,328
Collateral Held for Securities Lent	237,933,424	150,203,682
Other Liabilities	2,576,762	5,193,259
Total Liabiltiies	377,061,240	285,374,269
Net Assets Held in Trust for Pension Benefits	\$ 2,301,433,710	\$ 2,025,217,308

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Exhibit 3: Statement of Changes in Plan Net Assets For the Years Ended June 30, 2010 and 2009

	Ju	ne 30, 2010	Ju	ne 30, 2009
Additions				
Contributions				
Employer	\$	151,126,825	\$	138,814,789
Member		17,877,017		18,191,402
Total Contributions		169,003,843		157,006,191
Investment Income				
Net Appreciation in Fair Value of				
Investments		247,042,041		(738,918,986)
Interest		37,626,499		50,633,025
Dividends		13,033,220		14,809,826
Real Estate Investments		(1,582,757)		(557,179)
Other Investment Income		9,500		37,581
Total Investment Income		296,128,503		(673,995,734)
Less: Investment Expenses		5,421,870		5,147,021
Net Investment Income		290,706,633		(679,142,754)
Securities Lending Income				
Earnings		726,056		3,564,590
Less: Rebates & Bank Fees		99,717		1,757,530
Net Securities Lending Income	_	626,339		1,807,059
Total Additions		460,336,814		(520,329,504)
Deductions				
Retirement & Survivor Benefits		166,835,741		149,365,037
Supplemental Retirement Benefits		11,213,587		10,494,730
Refunds of Member Contributions		2,317,059		2,629,343
Administrative Expenses		3,207,350		3,072,618
Miscellaneous Expenses		546,676	u	
Total Deductions		184,120,413		165,561,727
Net Increase (Decrease)	\$	276,216,401	\$	(685,891,232)
Net Assets Held in Trust for Pension Benefits				
Beginning of Year		2,025,217,307		2,711,108,539
End of Year	\$	2,301,433,709	\$	2,025,217,307

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Exhibit 4: 5-Year Smoothing of Gains and Losses on Market Value – History

Six-Month	Ma	arket Value of	N	larket Value of					 tual Investment Return (Net of	Assumed Rate of	F	xpected Return	Un	expected Gain
		ets (Beginning)		Assets (End)	(Contributions	Ber	efit Payments	Expenses)	Return		let of Expenses)	•	(Loss)
6/30/2010	\$	2,430,589,948	\$	2,301,433,710	\$	24,843,069	\$	91,851,241	\$ (62,148,066)	7.75%	\$	92,887,077	\$	(155,035,143)
12/31/2009	\$	2,025,217,308	\$	2,430,589,948	\$	144,160,774	\$	88,515,146	\$ 349,727,012	7.75%	\$	79,555,305	\$	270,171,707
6/30/2009	\$	2,022,996,978	\$	2,025,217,308	\$	37,310,887	\$	83,663,497	\$ 48,572,939	8.00%	\$	79,992,827	\$	(31,419,887)
12/31/2008	\$	2,711,108,540	\$	2,022,996,978	\$	119,695,304	\$	78,825,613	\$ (728,981,253)	8.00%	\$	109,261,735	\$	(838,242,988)
6/30/2008	\$	2,954,936,919	\$	2,711,108,540	\$	29,447,062	\$	75,611,714	\$ (197,663,727)	8.00%	\$	117,274,184	\$	(314,937,911)
12/31/2007	\$	2,912,277,768	\$	2,954,936,919	\$	122,848,031	\$	72,949,005	\$ (7,239,875)	8.00%	\$	117,489,091	\$	(124,728,966)
6/30/2007	\$	2,781,826,664	\$	2,912,277,768	\$	18,197,296	\$	70,540,035	\$ 182,793,843	8.00%	\$	110,226,212	\$	72,567,632
12/31/2006	\$	2,458,256,056	\$	2,781,826,664	\$	122,571,166	\$	66,538,268	\$ 267,537,710	8.00%	\$	99,450,900	\$	168,086,809
6/30/2006	\$	2,395,625,069	\$	2,458,256,056	\$	14,198,025	\$	63,859,332	\$ 112,292,294	8.00%	\$	94,831,777	\$	17,460,517
12/31/2005	\$	2,212,271,078	\$	2,395,625,069	\$	98,310,989	\$	59,906,157	\$ 144,949,159	8.00%	\$	89,258,940	\$	55,690,220



5-Year Smoothing – Development of Actuarial Valuation Assets Exhibit 5:

Calculation of Market Stabilization Reserve

Six-Month Period Ended	Unexpected Gain (Loss)	Percent Not Yet Phased In	Gain (Loss) Excluded
06/30/2010	\$ (155,035,143)	90%	\$ (139,531,629)
12/31/2009	270,171,707	80%	216,137,365
06/30/2009	(31,419,887)	70%	(21,993,921)
12/31/2008	(838,242,988)	60%	(502,945,793)
06/30/2008	(314,937,911)	50%	(157,468,956)
12/31/2007	(124,728,966)	40%	(49,891,586)
06/30/2007	72,567,632	30%	21,770,289
12/31/2006	168,086,809	20%	33,617,362
06/30/2006	17,460,517	10%	<u>1,746,052</u>
Total			\$ (598,560,817)

Calculation of Actuarial Value of Assets and Valuation Assets

1. Market Value of Assets	\$ 2,301,433,710
2. Unrecognized Gain/Loss (Market Stabilization Reserve)	\$ (598,560,817)
3. Preliminary Actuarial Value (1) - (2)	\$ 2,899,994,527
 4. Corridor Around Market Value (a) Minimum - 50% of Market Value (b) Maximum - 150% of Market Value 	\$ 1,150,716,855 \$ 3,452,150,565
5. Computed Actuarial Value of Assets	\$ 2,899,994,527
 6. Non-Valuation Reserves and Designations (a) SRBR unallocated to 0.5% COLA benefits (b) Contingency Reserve (c) COLA Contribution Reserve (d) Total 	<pre>\$ 121,705,744 (16,354,734)</pre>
7. Total Valuation Reserves (5) - (6)	\$ 2,794,643,516

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Exhibit 6: Allocation of Assets by Accounting Reserve Amounts For June 30, 2010 and June 30, 2009

	RESERVES	Ju	ne 30, 2010	Ju	ne 30, 2009
A.	Market Stabilization Reserve	\$	(598,560,817)	\$	(879,782,342)
	Members Deposit Reserve-General & Courts Members Deposit Reserve-Safety Members Deposit Reserve-Special Districts Employers Advance Reserve-General & Courts Employers Advance Reserve-Safety Employers Advance Reserve-Special Districts Cost-of-Living Reserve-General & Courts Cost-of-Living Reserve-Safety Cost-of-Living Reserve-Special Districts Retired Members-General, Courts & Special Districts Retired Members-General, Courts & Special Districts Retired Members-Safety SRBR SRBR 0.5% COLA COLA Contribution Reserve Contingency Reserve Current Earnings	\$	155,657,312 59,599,266 14,526,928 381,694,076 272,209,225 22,619,318 390,319,347 288,441,054 21,776,508 684,399,146 426,246,873 121,705,744 77,154,463 - (16,354,734)	\$	156,041,743 61,703,332 14,681,001 393,087,757 296,024,368 21,461,789 378,315,542 284,667,772 20,075,928 657,565,159 415,010,192 128,493,517 81,580,277 19,030,483 (22,739,210)
В.	Total Reserves for Actuarial Value of Assets	\$	2,899,994,527	\$	2,904,999,650
C.	Total Fund Balance = A + B	\$	2,301,433,710	\$	2,025,217,308
D.	Non-Valuation Reserves and Designations (a) SRBR unallocated to 0.5% COLA benefits (b) Contingency Reserve (c) COLA Contribution Reserve (d) Total		121,705,744 (16,354,734) - 105,351,010		128,493,517 (22,739,210) 19,030,483 124,784,789
E.	Valuation Reserves = B - D	\$	2,794,643,516	\$	2,780,214,861

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Exhibit 7: **Reconciliation of Assets** For the Year Ended June 30, 2010

	Valuation Assets*	Actuarial Assets	Market Value of Assets
1. Total June 30, 2009 valuation	\$ 2,780,214,861	\$ 2,904,999,650	\$ 2,025,217,308
 2. Changes Between Valuations a. Contributions b. Transfer from CCR c. Benefit Payments d. Investment Return, net of expenses e. Total Changes 	169,003,844 19,030,483 (173,578,614) (27,057) \$ 14,428,655	169,003,844 - (180,366,387) <u>6,357,420</u> \$ (5,005,124)	169,003,844 - (180,366,387) <u>287,578,945</u> \$ 276,216,402
3. Total June 30, 2010 valuation	\$ 2,794,643,516	\$ 2,899,994,527	\$ 2,301,433,710
 4. Expected Return 5. Gain/(Loss) = 2d 4 6. Annual Return (net of all expenses) 	\$ 216,026,811 (216,053,868) 0.00%	\$ 224,697,174 (218,339,755) 0.22%	\$ 156,514,043 131,064,902 14.24%

*Excludes SRBR unallocated for 0.5% COLA, Contingency Reserve, and COLA Contribution Reserve, if any. It does include the SRBR for 0.5% COLA.

Exhibit 8: Allocation of Valuation Assets

Allocation of Valuation Assets	Gen	eral Members	Distr	ict Members	Saf	ety Members		Total
Member Deposit Reserves	\$	155,657,312	\$	14,526,928	\$	59,599,266	9	\$ 229,783,507
Employer Advance Reserves		381,694,076		22,619,318		272,209,225		676,522,619
Cost-of-Living Reserves - 2%		390,319,347		21,776,508		288,441,054		700,536,909
Cost-of-Living Reserves - 0.5%		42,988,284		2,398,382		31,767,797		77,154,463
Retired Member Reserves		649,409,911		34,989,234		426,246,873		1,110,646,018
Total Valuation Assets	\$	1,620,068,930	\$	96,310,370	\$	1,078,264,216	9	\$ 2,794,643,516

The SRBR Cost-of-Living Reserves - 0.5% are allocated in proportion to the 2.0% COL Reserves.

The Retired Member Reserves for General and District Members are allocated based on the present value of benefit obligations for each group.



Exhibit 9: COLA Contribution Reserve – Allocation and Estimate for December 31, 2010

		Gene	ral Members	Distr	ict Members	Safet	y Members	Total
1.	June 30, 2009 Values	\$	11,318,150	\$	1,152,804	\$	6,559,529	\$ 19,030,483
2.	COLA Contribution Credit for FY 2009-10		(11,318,150)		(1,152,804)		(6,559,529)	(19,030,483)
3.	Interest on December 31, 2009		0		0		0	 0
4.	Value as of December 31, 2009 (1.+ 2.+ 3.)		\$0		\$0		\$0	\$0
5.	Interest on June 30, 2010		0		0		0	 0
6	Value as of June 30, 2010 (4. + 5.)		\$0		\$0		\$0	\$0
7.	COLA Contribution Credit for FY 2010-11		0		0		0	0
8.	Estimated Interest on December 31, 2010		0		0		0	 0
9.	Estimated Value as of December 31, 2010		\$0		\$0		\$0	\$0



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Section 4: Actuarial Liabilities

	In the previous section, an actuarial valuation was compared with an inventory process, and an analysis was given of the inventory of KCERA's assets as of the valuation date, June 30, 2010. In this section, the discussion will focus on the commitments of KCERA for retirement benefits, which are referred to as its actuarial liabilities. The SRBR benefits are determined separately and are discussed in Section 8.
	In an active system, the actuarial liabilities will almost always exceed the actuarial assets. This is common in all but a fully closed down fund, where no further contributions of any sort are anticipated. This deficiency has to be provided by future contributions and investment returns. An actuarial valuation method sets out a schedule of future contributions that will deal with this deficiency in an orderly fashion. The determination of the level of future contributions needed is discussed in the next section.
Actuarial Balance Sheet – Liabilities	First, we need to determine the amount of the deficiency. We compare the Valuation Assets to the Actuarial Liabilities. The difference is the amount that needs to be funded by the Member and Employer contributions in the future. Both the current and future assets (contributions) are compared to the actuarial liabilities in the Actuarial Balance Sheet.
	Exhibit 10 contains an analysis of the actuarial present value of all future benefits for inactive members (both retired and terminated vested members) and active members.
	The actuarial liabilities include the actuarial present value of all future benefits expected to be paid with respect to each member. For an active member, this value includes measures of both benefits already earned and future benefits to be earned. For all members, active and inactive, the value extends over the rest of their lives and for the lives of any surviving beneficiaries. All liabilities reflect the benefits effective through June 30, 2010.
Actuarial Resources	KCERA's resources to fund benefits are equal to the sum of:
	 assets currently available to pay benefits and considered for funding purposes, the Valuation Reserves, and the present value of future contributions expected to be
	 the present value of future contributions expected to be made by current active Members and the employers.

Exhibit 10: Actuarial Value of Benefits – June 30, 2010 (Dollars in millions)

		Resources						
		General - County		General - Districts		Safety		Total
Valuation Assets (Actuarial)	\$	1,620.1	\$	96.3	\$	1,078.3	\$	2,794.6
Present Value of Future Member Contributions		112.3		10.4		37.1		159.8
Present Value of Future Employer Contributions to the Fund: a) Normal Cost		549.9		50.7		374.6		975.2
b) Unfunded Actuarial Accrued Liability		1,047.8		81.2		533.3		1,662.3
Total Resources	\$	3,330.1	\$	238.6	\$	2,023.3	\$	5,592.0
Liabilities								
		General - County		General - Districts		Safety		Total
Present Value of Future Benefits								
1. Present Retired Members	\$	1,217.5	\$	65.6	\$	950.6	\$	2,233.8
2. Current Inactive Members		107.2		12.2		27.6		147.1
3. Current Active Members		2,005.4		160.8		1,045.1		3,211.2
Total Actuarial Liabilities	\$	3,330.1	\$	238.6	\$	2,023.3	\$	5,592.0

Actuarial Cost Method	The method used to determine the incidence of when future contributions are yet to be made in future years is called the "actuarial cost method". For this valuation, the entry age normal actuarial cost method has been used. Under this method – or essentially any actuarial cost method – the contributions required to meet the difference between current assets and current actuarial liabilities are allocated each year between two elements:					
	A normal cost amount; and					
	• Whatever amount is left over, which is used to amortize what is called the Unfunded Actuarial Accrued Liability (UAAL).					
	Due to the adoption of Section 31617 of the CERL, and the Ventura settlement, the normal costs and the UAAL contribution rates need to be valued in total and also into three major cost group subtotals: the Basic benefits, the 2.0% COLA, and the 0.5% COLA benefits. The latter group also uses the portion of the SRBR funds allocated to those benefits.					
Normal Cost	The normal cost is the theoretical contribution rate that will meet the ongoing costs of a group of average new employees.					
	Suppose that a group of new employees was covered under a separate fund from which all benefits and to which all contributions and associated investment returns were paid. Under the entry age actuarial cost method, the normal cost contribution rate maintains the funding of benefits as a level percentage of pay. If experience follows the actuarial assumptions precisely, the fund would be completely liquidated when the last payment to the last survivor of the group was made.					
	By applying the normal cost contribution rate to the present value of salaries expected to be paid in the future, we determine the present value of future normal cost contributions. Future contributions are expected to be made by both the Members and the Employers.					
	Under the KCERA funding policy adopted by the Board, separate normal cost rates are determined for different cost sharing groups based on the level of future benefits.					

The following table indicates the level of normal cost contributions required in the future to fund the current benefits.

(In Millions of Dollars)	Basic	CO	LA - 2%	COL	.A - 0.5%	Total
1. General - Tier I	\$ 67.7	\$	13.9	\$	4.2	\$ 85.8
2. General - Tier II	5.1		1.0		0.3	6.4
3. Safety	32.4		7.8		2.5	42.7
4. All Members	\$ 105.3	\$	22.7	\$	7.0	\$ 134.9
As a Percent of Pay	Basic	со	LA - 2%	COL	A - 0.5%	Total
1. General - Tier I	18.28%		3.75%		1.14%	23.17%
2. General - Tier II	10.00%		1.90%		0.57%	12.47%
3. Safety	23.54%		5.70%		1.79%	31.02%
4. All Members	18.82%		4.06%		1.25%	24.12%

Actuarial Accrued Liability	The difference between the present value of all future obligations and the present value of the future normal cost contributions is referred to as the Actuarial Accrued Liability (AAL). The AAL is then compared to the value of assets available to fund benefits, and the difference is referred to as the UAAL.
Unfunded Actuarial Accrued Liability/ Surplus Funding	If a UAAL amount exists, it usually results from prior years' benefit or assumption changes and the net effect of accumulated gains and losses. If the employers had always contributed the current Normal Cost, if there were no prior benefit or assumption changes and if actual experience exactly matched the actuarial assumptions, the present value of all future Normal Cost contributions would be sufficient to fund all benefits and there would be no UAAL.
	Exhibit 11 shows how the UAAL was derived for each cost group.
	Exhibit 12 shows the development of the UAAL for each district. The District Reserves have been allocated to each district based on the proportion of its AAL to the total District AAL.
Funding Adequacy	A key consideration in determining the adequacy of the funding of KCERA is how the UAAL is being funded. If the UAAL amount is positive, that is, the AAL to be funded is greater than the Valuation Assets, then the UAAL is amortized. Under the current funding method, the UAAL is amortized over a fixed period ending December 31, 2035. Thus, the UAAL contribution rate is funding the UAAL over 25.5 years from the valuation date.

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Analysis of Change in UAAL	The UAAL, at any date after establishment of a system, is affected by any actuarial gains or losses arising when the actual experience of the system varies from the experience anticipated by the actuarial assumptions used in the valuations. To the extent actual experience, as it develops, differs from that expected according to the assumptions used, so also will the emerging costs differ from the estimated costs.

The 2010 actuarial valuation reflects an increase in the UAAL of \$237.3 million for the plan year just ended.

The following table reconciles the change in the UAAL since the last valuation.

Sources of UAAL (in millions)

Source of Change	County	District	Safety	Total Plan
June 30, 2009 Actuarial Valuation	\$908.7	\$73.1	\$443.2	\$1,425.0
Assumption Changes Expected Year-to-Year Change	0.0 32.4	0.0 2.7	0.0 21.9	0.0 57.0
Expected June 30, 2010 Actuarial Valuation	\$941.1	\$75.8	\$465.1	\$1,482.0
Asset (Gain)/Loss Salary Changes COLA (Gain)/Loss Demographic Changes Total Experience Change	124.5 (8.6) (7.0) (2.2) \$106.7	8.3 (0.1) (0.4) (2.4) \$5.4	83.2 (7.9) (4.8) (2.3) \$68.2	216.0 (16.6) (12.2) (6.9) \$180.3
Actual June 30, 2010 Actuarial Valuation	\$1,047.8	\$81.2	\$533.3	\$1,662.3
Net change since June 30, 2009	\$139.1	\$8.1	\$90.1	\$237.3

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Exhibit 11: Unfunded Actuarial Accrued Liability and Funded Ratio

(Dollars in millions)

Basic Benefits

	 eneral – County	 eneral – stricts	:	Safety	Total
 Actuarial Accrued Liability Valuation Assets 	\$ 1,959.3 1,186.8	\$ 132.5 72.1	\$	1,120.0 758.1	\$ 3,211.8 2,017.0
 Unfunded Actuarial Accrued Liability Funded Ratio 	\$ 772.5 60.6%	\$ 60.4 54.4%	\$	361.9 67.7%	\$ 1,194.8 62.8%

COLA Benefits - 2%

	Ge	neral –		eneral –	5	Safety	•	Total
	С	ounty	Di	istricts				
1. Actuarial Accrued Liability	\$	547.2	\$	34.6	\$	379.6	\$	961.4
2. Valuation Assets		390.3		21.8		288.4		700.5
3. Unfunded Actuarial Accrued Liability	\$	156.9	\$	12.8	\$	91.2	\$	260.9
4. Funded Ratio		71.3%		63.0%		76.0%		72.9%

COLA Benefits - 0.5%

		neral – ounty		eneral – stricts	5	Safety	-	Fotal
1. Actuarial Accrued Liability 2. Valuation Assets	\$	161.4 43.0	\$	10.5 2.4	\$	112.0 31.8	\$	283.9 77.2
3. Unfunded Actuarial Accrued Liability	\$	118.4	s —	8.1	\$	80.2		206.7
4. Funded Ratio	Ψ	26.6%	Ψ	22.9%	Ψ	28.4%	Ψ	27.2%

	G	eneral –	Ge	neral –	:	Safety	-	Totals
	C	County	Di	stricts				
1. Actuarial Accrued Liability	\$	2,667.9	\$	177.5	\$	1,611.6	\$	4,457.0
2. Valuation Assets		1,620.1		96.3		1,078.3		2,794.7
3. Unfunded Actuarial Accrued Liability	\$	1,047.8	\$	81.2	\$	533.3	\$	1,662.3
4. Funded Ratio		60.7%		54.3%		66.9%		62.7%



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Exhibit 12: Liability by District

		Member Count*	I	A Present Value of Projected Benefits	 B esent Value of Future ormal Cost **	L	C Actuarial Accrued iability (AAL)	(Pi	D Valuation Assets ro-rated by AAL)	E Unfunded Actuarial Accrued bility (UAAL)
Category	District Name						(A-B)			(C-D)
IV	Berrenda Mesa Water	18	\$	5,630,809	\$ 922,362	\$	4,708,447	\$	2,554,067	\$ 2,154,380
III	Buttonwillow Recreation & Park	5		630,939	349,249		281,690		152,801	128,889
II	East Kern Cemetery	2		547,475	138,181		409,294		222,019	187,275
IV	Inyokern Community Services	3		519,260	146,201		373,059		202,363	170,696
I	Kern County Water Agency	146		64,787,427	10,991,336		53,796,091		29,181,348	24,614,743
II	Kern Mosquito & Vector Control	31		12,647,763	1,448,923		11,198,840		6,074,740	5,124,100
V	North of the River Sanitation	20		7,698,879	1,106,211		6,592,668		3,576,151	3,016,517
III	San Joaquin Valley Unified Air Pollution Control	482		131,124,233	43,537,531		87,586,702		47,510,851	40,075,851
II	Shafter Recreation & Park	4		437,580	-		437,580		237,362	200,218
II	West Side Cemetery	14		4,142,375	673,382		3,468,993		1,881,733	1,587,260
II	West Side Mosquito Abatement	19		6,320,912	690,266		5,630,646		3,054,308	2,576,338
II	West Side Recreation & Park	34		4,120,693	 1,055,627		3,065,066		1,662,626	 1,402,440
	Total District	778	\$	238,608,345	\$ 61,059,269	\$	177,549,076	\$	96,310,370	\$ 81,238,706

District Category Descriptions:

I. Kern County Water Agency: Employer picks up 100% member contributions for those hired prior to August 22, 2004.

II. Kern Mosquito & Vector Control, West Side Mosquito Abatement, Shafter Recreation & Park, West Side Cemetery, West Side Recreation & Park, and East Kern Cemetery: Adopted 1997 MOU. Members hired prior to August 7, 2004 (January 8, 2005 for Kern Mosquito & Vector Control) only contribute for first five years of service.

III. San Joaquin Valley Unified Air Pollution Control and Buttonwillow Recreation & Park: Did not adopt 1997 MOU. Members contribute 50% of rates shown on page D-2 for 30 years of service, regardless of hire date.

IV. Berrenda Mesa Water and Inyokern Community Services: Adopted 3% at 60 formula on a prospective basis only.

V. North of the River Sanitation: Adopted Tier 2 benefits. The Kern County Water Agency has also adopted Tier II, but has no Tier II employees as of the valuation date.

* Includes both active and inactive members.

** Includes both employer and employee contributions.



Liability by District The chart on the previous page summarizes the Actuarial Accrued Liability by District. For purposes of this exhibit, the Valuation Assets are allocated in proportion to the Actuarial Accrued Liability. This would not match the assets that would be allocated to a district if it chose to withdraw from KCERA.

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Section 5: Member Contributions



Contributions

Basic

For KCERA, member contributions vary by employer, age at hire, and by date of hire. For Safety members, they can also vary by bargaining unit.

Basic contributions for each employer group as reported to us are summarized in the chart in Exhibit 13, at the end of this section. Member contributions are defined in the noted sections of the 1937 County Employees' Retirement Law, but modified by MOU agreements as noted in the footnotes to the table.

Basic member contributions are determined using the Entry Age Normal Funding Method and the following actuarial assumptions:

- 1. Expected rate of return on assets
- 2. Individual salary increase rate (wage growth + merit)
- 3. Mortality for members on service retirement
- 4. No COLAs are assumed

For valuation purposes, current member contribution levels are assumed to be in place for the subsequent fiscal year. Any future changes in member contribution rates would be reflected in future valuations in determining the portion of the total costs payable between the employers and the members.

Members do not contribute towards the cost-of-living benefits.

Note that for some employers, benefits are integrated with Social Security. In those cases, members pay two-thirds of the full rate on the first \$350 of pay each month.

Full disclosure of the member contribution rates by entry age into the System can be found in Appendix D.

General Members The Basic contribution rates for Tier I members are designed to provide an average annuity, payable at age 55, equal to 1/100 of the final average salary for General members, in compliance with CERL 31621.8.

Aside from the exceptions noted below, General members hired prior to August 7, 2004 (January 8, 2005 for Kern Mosquito and Vector Control District) pay the full member contribution rates for the first five years of service. Those hired after that date pay the full member contribution rates for 30 years.

Court employees pay an additional 2.5% of base salary toward the employer's cost of the benefits for their entire career.

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General Members (continued)	Two districts, Buttonwillow Recreation and Park District and San Joaquin Valley Unified Air Pollution Control District, did not adopt the 1997 MOU. Members in those districts pay 50% of the full rates for the first 30 years of service, regardless of hire date.
	For Kern County Water Agency employees hired prior to August 22, 2004, the employer picks up 100% of all member contributions.
	For Tier II members (County members hired on or after October 27, 2007, North of the River Sanitation employees hired on or after October 29, 2007 and Kern County Water Agency on or after January 1, 2010), the contribution rates are designed to provide an average annuity, payable at age 60, equal to 1/120 of the final average salary, in compliance with CERL 31621.
Safety Members	The Basic contribution rates are designed to provide an average annuity, payable at age 50, equal to 1/100 of the final average salary for Safety members, in compliance with CERL 31639.25.
	Effective July 10, 2004, all Safety employees began paying a supplemental contribution rate:
	 a. If hired after July 10, 2004, an additional rate equal to the total employee rate sufficient to provide an average annuity payable at age 50, equal to 3/200 of final compensation. This amount is equal to 150% of the rate specified in Section 31639.25 of the CERL.
	 b. If hired before July 10, 2004, the supplemental rate will increase 1% each fiscal year until the full rate as described in a. is reached.
	Those contributing under b. above have now been fully phased into the contribution rates described in a.
	Most Safety members hired prior to 2007 pay contributions for the first five years of service. New to this valuation, Safety members in certain bargaining units (Probation officers) contribute for the first seven years of service. Those who had already reached five years of service prior to the change were not required to re-start contributions.
	Those hired after 2007 contribute for 30 years of service. For those hired in 2007, the length of contribution depends upon hire date and bargaining unit.
	Recently, there was a change such that members in certain bargaining units (Firefighters) contribute a flat 1% of pay after normal five-year member contributions cease.

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Safety Members (continued)

For members in certain bargaining units hired after collectively bargained dates in 2007, the rates described above have been replaced by one uniform rate for all entry ages. That rate is designed to result in average contribution rates comparable to the rates based upon the 3/200 described above. The new rates effective July 1, 2009 were 12.30% for salary above \$350/month and 8.20% for the first \$350.

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Exhibit 13: Member Contribution Rates

Plan	Valuation Report Label	Member Contribution Code Section	Member Contribution Provides Average Annuity of	Adopted 1997 MOU	Soc Sec Integration	Pre-Tax
General - County Tier I	General - County Tier I	31621.8	1/100 of FAS at age 55	Yes	Yes	Yes
General - County Tier II	General - County Tier II	31621	1/120 of FAS at age 60	NA	Yes	Yes
	General - County - Court		1/100 of FAS at age 55 plus			
General - County - Court Employees	Employees	31621.8	supplemental 2.5% ⁽⁵⁾	Yes	Yes	Yes
District - Berrenda Mesa Water	District Category IV (4)	31621.8	1/100 of FAS at age 55	Yes	No	Yes
			1/100 of FAS at age 55			
District - Buttonwillow Recreation & Park	District Category III	31621.8	(Member pays 50%) ⁽³⁾	No	No	No
District - East Kern Cemetery	District Category II	31621.8	1/100 of FAS at age 55 ⁽²⁾	Yes	Yes	Yes
District - Inyokern Community Services	District Category IV (4)	31621.8	1/100 of FAS at age 55	Yes	No	No
			1/100 of FAS at age 55 (100% employer pickup if			
District - Kern County Water Agency	District Category I	31621.8	hired prior to 8/22/2004) ⁽¹⁾	Yes	Yes	Yes
District - Kern Mosquito & Vector Control	District Category II	31621.8	1/100 of FAS at age 55	Yes	Yes	Yes
District - North of River Sanitation Tier I	District Category V	31621.8	1/100 of FAS at age 55	Yes	Yes	Yes
District - North of River Sanitation Tier II	District Category V	31621	1/120 of FAS at age 60	Yes	Yes	Yes
District - San Joaquin Valley Unified Air			1/100 of FAS at age 55			
Pollution Control	District Category III	31621.8	(Member pays 50%) ⁽³⁾	No	No	Yes
District - Shafter Recreation & Park	District Category II	31621.8	1/100 of FAS at age 55	Yes	No	Yes
District - West Side Cemetery	District Category II	31621.8	1/100 of FAS at age 55	Yes	Yes	No
District - West Side Mosquito Abatement	District Category II	31621.8	1/100 of FAS at age 55	Yes	Yes	No
District - West Side Recreation & Park	District Category II	31621.8	1/100 of FAS at age 55	Yes	Yes	No
Safety - County	Safety	31639.25	3/200 of FAS at age 50 (6)	Yes	Yes	Yes

FAS = Final Average Salary

Aside from the exceptions noted below, General members hired prior to August 7, 2004 (January 8, 2005 for Kern Mosquito and Vector) pay the full member contribution rates for the first five years of service as a result of the 1997 MOU. Those hired after that date pay the full member contribution rates for 30 years of service.

Notes:

- 1. Kern County Water Agency (District Category I) employees hired prior to August 22, 2004, the employer picks up 100% of all member contributions. The Kern County Water Agency has adopted Tier II, but had no Tier II employees as of the valuation date.
- 2. District Category II adopted the 1997 MOU. Member contribution rules the same as General Tier I.
- Buttonwillow and San Joaquin Valley Unified Air Pollution Control District (District Category III) did not adopt the 1997 MOU. Members in those districts pay 50% of the full rates for 30 years of service, regardless of hire date.
- 4. District Category IV adopted the 3% at 60 Formula on a prospective basis only. Member contribution rules the same as General Tier I.
- Court employees pay contributions based upon 31621.8 for only the first five years of service, regardless of hire date. Court employees pay an additional 2.5% of the base salary for their entire career.
- 6. For most Safety members hired prior to 2007, members contribute only for the first five years of service. For members in certain bargaining units (Probation officers), members contribute for the first seven years of service. For members in certain bargaining units (Firefighters), members contribute for 30 years of service. For Safety members hired after 2007, members contribute for 30 years of service. For Safety members hired in 2007, the contribution rate depends upon hire date and bargaining unit. For members hired in certain bargaining units, the rates by entry age have been replaced by a uniform rate for all entry ages. The uniform rate continues to be integrated with social security.



Section 6: Employer Contributions



Calculated

Contribution Rate

Contributions to KCERA are determined using the Entry Age Normal Cost Funding Method. The portion of the actuarial present value of retirement benefits allocated to a valuation year by the Actuarial Cost Method is called the Normal Cost. These amounts are usually expressed as a percentage of payroll and called the Normal Cost Contribution Rate. Section 4 illustrated the Normal Cost Rates for each cost group based on this valuation.

It should be noted that when we use the term "Gross Normal Cost Rate," we are referring to the value of benefits earned by active members allocated to the valuation year. The employer Normal Cost is the portion of the annual cost for which the employer is responsible. This is simply the Gross Normal Cost rate less the expected contributions made by the members for the subsequent fiscal year.

The total calculated employer contribution rates for each cost sharing group can be found in Exhibits 14-16. These results are expressed as a percentage of payroll and annual contribution dollars.

Due to the adoption of Section 31617 of the CERL, and the Ventura settlement, the contribution rates need to be valued in total and also into three major subtotals:

- a. The Basic benefits are the retirement benefits excluding all COLA.
- b. The COLA benefits adopted prior to the Ventura settlement are referred to as the "2.0% COLA benefits".
- c. The COLA benefits provided under the Ventura settlement are referred to as the "0.5% COLA benefits".

This break out of the rates into the three subgroups and in total is needed for allocation of the employer contributions and in case a COLA Contribution Reserve should exist to be credited against the 2% COLA contributions.

Exhibit 14 shows the contribution rates for the County, District, and Safety groups. Exhibit 15 further breaks down the County rates between Tier I, Tier II, and the Courts. Exhibit 16 further breaks down the District rates between the five District categories.

Calculated **Contribution Rate** (continued)

Note that KCERA's UAAL is determined separately for each cost sharing group depending on both assets (prior Pension Obligation Bond funds from the County) and benefit provisions (adoption of either prospective only or prospective and retrospective application of the new 3% at 60 benefit formula on January 1, 2006). Thus, KCERA funds the UAAL as a percentage of pay over salaries for all members within a cost sharing group.

The UAAL contributions are split between those attributable to the 3% at 60 benefits and all other UAAL amounts starting with the 2005 valuation. The fixed portion of the UAAL rates attributable to the 3% at 60 benefit enhancements are:

	County General	District General
	members	members
Basic Benefits	2.43%	2.31%
2% COLA	0.51%	0.47%
0.5% COLA	0.13%	0.13%
Total	3.07%	2.91%

Any UAAL attributable to Golden Handshake programs will be paid by the employer by one of two methods, as elected by the employer:

- a. Payment in full for the UAAL attributable to the Golden Handshake(s) in the first month of the fiscal year following the fiscal year in which the Golden Handshake(s) was granted.
- b. According to a five-year amortization which will be invoiced (payable in 30 days) to the employer in the first month of the fiscal year following the fiscal year in which the Golden Handshake(s) was granted. The amortization schedule will be based upon the valuation interest rate used in the most recently completed valuation at the time that the amortization schedule is created. The employer may complete payment of the Golden Handshake(s) at any time during the five-year amortization period.

If the amortization method is used, the outstanding balance will be recorded as a receivable asset to be included with the Actuarial Value of Assets. All Golden Handshakes provided by an employer during any fiscal year will be bundled together and will be invoiced in one transaction in the first month following the fiscal year in which the Golden Handshakes were granted.

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Exhibit 14: Total Plan Contributions by UAAL Cost Sharing Group

	General County with Courts	General District	Safety	Total
A. Basic Benefits	17.000/	10.0.10/	00.54%	10.000/
1. Total Normal Cost	17.20%	18.24%	23.54%	18.82%
 Projected Employee Contributions Employer Normal Cost (1-2) 	<u>2.96%</u> 14.23%	<u>3.48%</u> 14.76%	<u>3.07%</u> 20.47%	<u>3.02%</u> 15.80%
4. Amortization of Unfunded Actuarial Accrued Liability	11.92%	11.23%	15.84%	12.85%
5. Employer Contribution (3+4)	26.15%	25.99%	36.31%	28.64%
B. COLA Benefits 2%1. Employer Normal Cost	3.51%	3.74%	5.70%	4.06%
2. Amortization of Unfunded Actuarial Accrued Liability	2.42%	2.38%	3.99%	2.81%
3. Employer Contribution (1+2)	5.93%	6.12%	9.69%	6.86%
C. COLA Benefits 0.5%				
1. Employer Normal Cost	1.07%	1.14%	1.79%	1.25%
2. Amortization of Unfunded Actuarial Accrued Liability	1.83%	1.51%	3.51%	2.22%
3. Employer Contribution (1+2)	2.89%	2.65%	5.30%	3.47%
D. Total Benefits				
1. Total Normal Cost	21.77%	23.12%	31.02%	24.12%
2. Projected Employee Contributions	2.96%	3.48%	3.07%	3.02%
3. Employer Normal Cost (1-2)	18.80%	19.64%	27.95%	21.10%
4. Amortization of Unfunded Actuarial Accrued Liability	16.17%	15.13%	23.35%	17.88%
5. Total Employer Contribution (3+4)	34.97%	34.76%	51.30%	38.98%
6. COLA Contribution Reserve Adjustments				
a.) CCR Credits*	0.00%	0.00%	0.00%	0.00%
b.) Max CCR Credits (B.3)	5.93%	6.12%	9.69%	6.86%
c.) CCR Adjustments (Minimum of a. and b.)	0.00%	0.00%	0.00%	0.00%
7. Adjusted Employer Contribution (5-6c.)	34.97%	34.76%	51.30%	38.98%
Estimated Payroll for Fiscal Year beginning July 1, 2011	\$ 405,023,365	\$ 33,487,439	\$ 143,244,660	\$ 581,755,464
	General County			
Estimated Dollar Amounts A. Basic Benefits	with Courts	District	Safety	Total
Projected Employee Contributions	\$ 12,017,545	\$ 1,166,503	\$ 4,397,611	\$ 17,581,659
Employer Contribution	105,907,567	8,702,118	52,012,136	166,621,821
B. COLA Benefits 2%	04.000.000	0.050.054	10,000,100	00.040.400
Employer Contribution	24,009,833	2,050,251	13,880,408	39,940,492
C. COLA Benefits 0.5% Employer Contribution	11,727,215	885,717	7,591,967	20,204,899
	, , -	,	, ,	-, - ,
D. Total Benefits				
Projected Employee Contributions Total Employer Contribution	12,017,545 141,644,615	1,166,503 11,638,086	4,397,611 73,484,511	17,581,659 226,767,212
COLA Contribution Reserve Adjustments				
a.) CCR Credits*	\$-	\$-	\$-	\$-
b.) Max CCR Credits (B.)	24,009,833	¥ 2,050,251	Ψ 13,880,408	¥ 39,940,492
c.) CCR Adjustments (Minimum of a. and b.)	\$ -	\$ -	\$ -	\$ -
Adjusted Employer Contribution	\$ 141,644,615	\$ 11,638,086	\$ 73,484,511	\$ 226,767,212

* Based upon the estimated COLA Contribution Reserve as of December 31, 2010.

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Exhibit 15a: County General Contributions

	Tier I w/o Courts	Tier II w/o Courts	Total General County w/o Courts	Courts	Total General County with Courts
A. Basic Benefits					
1. Total Normal Cost	18.28%	10.00%	17.13%	18.28%	17.20%
 Projected Employee Contributions Employer Normal Cost (1-2) 	<u>2.39%</u> 15.89%	<u>5.83%</u> 4.16%	<u>2.87%</u> 14.26%	<u>4.50%</u> 13.78%	<u>2.96%</u> 14.23%
3. Employer Normal Cost (1-2)	15.0578	4.1078	14.2078	13.70%	14.2370
4. Amortization of Unfunded Actuarial Accrued Liability	11.92%	11.92%	11.92%	11.92%	11.92%
5. Employer Contribution (3+4)	27.81%	16.08%	26.18%	25.70%	26.15%
B. COLA Benefits 2%1. Employer Normal Cost	3.75%	1.90%	3.49%	3.75%	3.51%
2. Amortization of Unfunded Actuarial Accrued Liability	2.42%	2.42%	2.42%	2.42%	2.42%
3. Employer Contribution (1+2)	6.17%	4.32%	5.91%	6.17%	5.93%
C. COLA Benefits 0.5%					
1. Employer Normal Cost	1.14%	0.57%	1.06%	1.14%	1.07%
2. Amortization of Unfunded Actuarial Accrued Liability	1.83%	1.83%	1.83%	1.83%	1.83%
3. Employer Contribution (1+2)	2.97%	2.40%	2.89%	2.97%	2.89%
D. Total Benefits					
1. Total Normal Cost	23.17%	12.47%	21.68%	23.17%	21.77%
2. Projected Employee Contributions	2.39%	5.83%	2.87%	4.50%	2.96%
3. Employer Normal Cost (1-2)	20.78%	6.64%	18.81%	18.66%	18.80%
4. Amortization of Unfunded Actuarial Accrued Liability	16.17%	16.17%	16.17%	16.17%	16.17%
5. Total Employer Contribution (3+4)	36.95%	22.81%	34.98%	34.83%	34.97%
6. COLA Contribution Reserve Adjustments					
a.) CCR Credits*	0.00%	0.00%	0.00%	0.00%	0.00%
b.) Max CCR Credits (B.3)	6.17%	4.32%	5.91%	6.17%	5.93%
c.) CCR Adjustments (Minimum of a. and b.)	0.00%	0.00%	0.00%	0.00%	0.00%
7. Adjusted Employer Contribution (5-6c.)	36.95%	22.81%	34.98%	34.83%	34.97%
Estimated Payroll for Fiscal Year beginning July 1, 2011	\$ 327,636,246	\$ 52,978,821	\$ 380,615,067	\$ 24,408,298	\$ 405,023,365
			Total		Total
	Tier I	Tier II	General County		General County
Estimated Dollar Amounts	w/o Courts	w/o Courts	w/o Courts	Courts	with Courts
A. Basic Benefits					
Projected Employee Contributions Employer Contribution	\$ 7,830,506 91,115,640	\$ 3,088,665 8,518,994	\$ 10,919,172 99,634,634	\$ 1,098,373 6,272,933	\$ 12,017,545 105,907,567
B. COLA Benefits 2%					
Employer Contribution	20,215,156	2,288,685	22,503,841	1,505,992	24,009,833
C. COLA Benefits 0.5%					
Employer Contribution	9,730,797	1,271,492	11,002,288	724,926	11,727,215
D. Total Benefits					
Projected Employee Contributions	7,830,506	3,088,665	10,919,172	1,098,373	12,017,545
Total Employer Contribution	121,061,593	12,079,171	133,140,764	8,503,851	141,644,615
COLA Contribution Reserve Adjustments					
a.) CCR Credits*	\$-	\$-	\$-	\$-	\$-
b.) Max CCR Credits (B.)	20,215,156	2,288,685	22,503,841	1,505,992	24,009,833
c.) CCR Adjustments (Minimum of a. and b.)	\$ -	\$ -	\$ -	\$ -	\$ -
Adjusted Employer Contribution	\$ 121,061,593	\$ 12,079,171	\$ 133,140,764	\$ 8,503,851	\$ 141,644,615

* Based upon the estimated COLA Contribution Reserve as of December 31, 2010.

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Exhibit 15b: County Total Contributions

		eneral County w/o Courts	Safety		Total County w/o Courts
A. Basic Benefits					
1. Total Normal Cost		17.13%	23.54%		18.88%
2. Projected Employee Contributions		2.87%	3.07%		<u>2.92%</u> 15.96%
3. Employer Normal Cost (1-2)		14.26%	20.47%		15.96%
4. Amortization of Unfunded Actuarial Accrued Liability		11.92%	15.84%		12.99%
5. Employer Contribution (3+4)		26.18%	36.31%		28.95%
B. COLA Benefits 2%					
1. Employer Normal Cost		3.49%	5.70%		4.09%
2. Amortization of Unfunded Actuarial Accrued Liability		2.42%	3.99%		2.85%
3. Employer Contribution (1+2)		5.91%	9.69%		6.94%
C. COLA Benefits 0.5%					
1. Employer Normal Cost		1.06%	1.79%		1.26%
2. Amortization of Unfunded Actuarial Accrued Liability		1.83%	3.51%		2.29%
3. Employer Contribution (1+2)		2.89%	5.30%		3.55%
D. Total Benefits					
1. Total Normal Cost		21.68%	31.02%		24.23%
2. Projected Employee Contributions		2.87%	3.07%		2.92%
3. Employer Normal Cost (1-2)		18.81%	27.95%		21.31%
4. Amortization of Unfunded Actuarial Accrued Liability		16.17%	23.35%		18.13%
5. Total Employer Contribution (3+4)		34.98%	51.30%		39.44%
6. COLA Contribution Reserve Adjustments					
a.) CCR Credits*		0.00%	0.00%		0.00%
b.) Max CCR Credits (B.3)		5.91%	9.69%		6.94%
c.) CCR Adjustments (Minimum of a. and b.)		0.00%	0.00%		0.00%
7. Adjusted Employer Contribution (5-6c.)		34.98%	51.30%		39.44%
Estimated Payroll for Fiscal Year beginning July 1, 2011	\$	380,615,067	\$ 143,244,660	\$	523,859,727
		eneral County	0.1.1		Total
Estimated Dollar Amounts A. Basic Benefits		w/o Courts	Safety		w/o Courts
Projected Employee Contributions	\$	10,919,172	\$ 4,397,611	\$	15,316,783
Employer Contribution	Ŷ	99,634,634	52,012,136	Ŷ	151,646,770
B. COLA Benefits 2%					
Employer Contribution		22,503,841	13,880,408		36,384,249
C. COLA Benefits 0.5%		11 000 000	7 504 067		10 504 055
Employer Contribution		11,002,288	7,591,967		18,594,255
D. Total Benefits		10 010 172	4 207 611		15 216 792
Projected Employee Contributions Total Employer Contribution		10,919,172 133,140,764	4,397,611 73,484,511		15,316,783 206,625,275
COLA Contribution Reserve Adjustments					
a.) CCR Credits*	\$	-	\$-	\$	-
b.) Max CCR Credits (B.)	_	22,503,841	13,880,408		36,384,249
c.) CCR Adjustments (Minimum of a. and b.)	\$	-	\$ -	\$	-
Adjusted Employer Contribution	\$	133,140,764	\$ 73,484,511	\$	206,625,275

* Based upon the estimated COLA Contribution Reserve as of December 31, 2010.

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District Total Contributions Exhibit 16a:

	Category I	Category II	Category III	Category IV**	Category V***	Total
A. Basic Benefits 1. Total Normal Cost	18.28%	18.28%	18.28%	18.28%	16.62%	18.24%
2. Projected Employee Contributions	1.99%	2.48%	4.07%	2.48%	3.15%	3.48%
3. Employer Normal Cost (1-2)	16.29%	15.80%	14.21%	15.80%	13.47%	14.76%
4. Amortization of Unfunded Actuarial Accrued Liability	11.28%	11.28%	11.28%	8.97%	11.28%	11.23%
5. Employer Contribution (3+4)	27.57%	27.07%	25.48%	24.77%	24.75%	25.99%
B. COLA Benefits 2%						
1. Employer Normal Cost	3.75%	3.75%	3.75%	3.75%	3.38%	3.74%
2. Amortization of Unfunded Actuarial Accrued Liability	2.39%	2.39%	2.39%	1.92%	2.39%	2.38%
3. Employer Contribution (1+2)	6.14%	6.14%	6.14%	5.67%	5.77%	6.12%
C. COLA Benefits 0.5%						
1. Employer Normal Cost	1.14%	1.14%	1.14%	1.14%	1.03%	1.14%
2. Amortization of Unfunded Actuarial Accrued Liability	1.51%	1.51%	1.51%	1.38%	1.51%	1.51%
3. Employer Contribution (1+2)	2.65%	2.65%	2.65%	2.52%	2.54%	2.65%
D. Total Benefits						
1. Total Normal Cost	23.17%	23.17%	23.17%	23.17%	21.03%	23.12%
2. Projected Employee Contributions	1.99%	2.48%	4.07%	2.48%	3.15%	3.48%
3. Employer Normal Cost (1-2)	21.18%	20.68%	19.10%	20.68%	17.88%	19.64%
4. Amortization of Unfunded Actuarial Accrued Liability	15.18%	15.18%	15.18%	12.27%	15.18%	15.13%
5. Total Employer Contribution (3+4)	36.36%	35.87%	34.28%	32.96%	33.06%	34.76%
6. COLA Contribution Reserve Adjustments						
a.) CCR Credits*	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
b.) Max CCR Credits (B.3)	6.14%	6.14%	6.14%	5.67%	5.77%	6.12%
c.) CCR Adjustments (Minimum of a. and b.)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
7. Adjusted Employer Contribution (5-6c.)	36.36%	35.87%	34.28%	32.96%	33.06%	34.76%
Estimated Payroll for Fiscal Year beginning July 1, 2011	\$ 6,566,874	\$ 2,672,924	\$ 22,832,907	\$ 645,507	\$ 769,228	\$ 33,487,439
Estimated Dollar Amounts	Category I	Category II	Category III	Category IV**	Category V***	Total
A. Basic Benefits						
Projected Employee Contributions	\$ 130,681	\$ 66,289	\$ 929,299	\$ 16,009	\$ 24,226	\$ 1,166,503
Employer Contribution	1,810,487	723,561	5,817,825	159,892	190,353	8,702,118
B. COLA Benefits 2%						
Employer Contribution	403,206	164,118	1,401,940	36,600	44,387	2,050,251
C. COLA Benefits 0.5%						
Employer Contribution	174,022	70,832	605,072	16,267	19,524	885,717
D. Total Benefits						
Projected Employee Contributions	130,681	66,289	929,299	16,009	24,226	1,166,503
Total Employer Contribution	2,387,715	958,511	7,824,837	212,759	254,264	11,638,086
COLA Contribution Reserve Adjustments						
a.) CCR Credits*	\$-	\$-	\$-	\$-	\$-	\$-
b.) Max CCR Credits (B.)	403,206	164,118	1,401,940	36,600	44,387	2,050,251
c.) CCR Adjustments (Minimum of a. and b.)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Adjusted Employer Contribution	\$ 2,387,715	\$ 958,511	\$ 7,824,837	\$ 212,759	\$ 254,264	\$ 11,638,086

* Based upon the estimated COLA Contribution Reserve as of December 31, 2010.

** District Category IV adopted the 3% at 60 benefit formula prospectively only, reducing their share of the UAAL.

*** District Category IV adopted the 5% at ob benefit formula prospectively only, receasing their share of the Grac.
*** District Category V represents districts who have adopted Tier II. Currently only North of the River Sanitation is included in this Category. The Kern County Water Agency has also adopted Tier II, but has no Tier II employees as of the valuation date.

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Exhibit 16b: District Category V: Tier I and II Contributions

	Cat	tegory V*** Tier I	Cat	egory V*** Tier II	Cat	egory V*** Total
A. Basic Benefits		40.000/		10.000/		10.000/
1. Total Normal Cost 2. Projected Employee Contributions		18.28% 2.48%		10.00% 5.83%		16.62% 3.15%
3. Employer Normal Cost (1-2)		15.80%		4.16%		13.47%
4. Amortization of Unfunded Actuarial Accrued Liability		11.28%		11.28%		11.28%
5. Employer Contribution (3+4)		27.07%		15.44%		24.75%
B. COLA Benefits 2%1. Employer Normal Cost		3.75%		1.90%		3.38%
2. Amortization of Unfunded Actuarial Accrued Liability		2.39%		2.39%		2.39%
3. Employer Contribution (1+2)		6.14%		4.29%		5.77%
C. COLA Benefits 0.5%1. Employer Normal Cost		1.14%		0.57%		1.03%
2. Amortization of Unfunded Actuarial Accrued Liability		1.51%		1.51%		1.51%
3. Employer Contribution (1+2)		2.65%		2.09%		2.54%
D. Total Benefits 1. Total Normal Cost		23.17%		12.47%		21.03%
2. Projected Employee Contributions		2.48%		5.83%		3.15%
3. Employer Normal Cost (1-2)		20.68%		6.64%		17.88%
4. Amortization of Unfunded Actuarial Accrued Liability		15.18%		15.18%		15.18%
5. Total Employer Contribution (3+4)		35.87%		21.82%		33.06%
6. COLA Contribution Reserve Adjustments						
a.) CCR Credits*		0.00%		0.00%		0.00%
b.) Max CCR Credits (B.3)c.) CCR Adjustments (Minimum of a. and b.)		<u>6.14%</u> 0.00%		4.29%		<u>5.77%</u> 0.00%
7. Adjusted Employer Contribution (5-6c.)		35.87%		21.82%		33.06%
Estimated Payroll for Fiscal Year beginning July 1, 2011	\$	615,514	\$	153,714	\$	769,228
Estimated Dollar Amounts	Category V*** Tier I		Category V*** Tier II		Cat	egory V*** Total
A. Basic Benefits Projected Employee Contributions	\$	15,265	\$	8,962	\$	24,226
Employer Contribution	Ψ	166,620	Ψ	23,733	Ψ	190,353
B. COLA Benefits 2% Employer Contribution		37,793		6,594		44,387
C. COLA Benefits 0.5% Employer Contribution		16,311		3,213		19,524
D. Total Benefits		15.005		8 000		24 000
Projected Employee Contributions Total Employer Contribution		15,265 220,723		8,962 33,540		24,226 254,264
COLA Contribution Reserve Adjustments						
a.) CCR Credits*	\$	-	\$	-	\$	-
b.) Max CCR Credits (B.)c.) CCR Adjustments (Minimum of a. and b.)	\$	37,793	\$	6,594	\$	44,387
		220 702		22 540		254 204
Adjusted Employer Contribution	\$	220,723	\$	33,540	\$	254,264

* Based upon the estimated COLA Contribution Reserve as of December 31, 2010.

*** District Category V represents districts who have adopted Tier II. Currently only North of the River Sanitation is included in this Category. The Kern County Water Agency has also adopted Tier II, but has no Tier II employees as of the valuation date.

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Changes in the Contribution Rates

The following Exhibit 17 illustrates the various sources of changes that impacted both the employer contribution rates and the funded ratio. It shows the analysis of change both in aggregate for all of KCERA, as well as for the County General, District General and Safety cost sharing groups.

Experience during the 2010 year resulted in an overall 2.64% increase in the employer contribution rate.

Some experience gains and losses are to be expected as part of the normal variation between actual and expected experience. The changes due to actual experience were well within a reasonable level of fluctuation. The primary reasons for the changes are summarized as follows:

- Asset Gain/Loss: Under the actuarial asset valuation method, gains and losses are recognized over a five year period. For this valuation, there is a significant increase in employer contribution rates based upon recognition of a portion of the negative investment experience, particularly during 2008.
- Change in Member Contribution Rates: More Safety and General members are now required to make contributions after five years of service. General members hired after August 7, 2004 are now contributing for 30 years, so a nontrivial portion of the total General group with over five years of service is now contributing. This results in an increase in the total member contribution rate for General members.

For Safety members, most members who were hired prior to 2007 only contribute for five years of service. As of the 2010 valuation, Safety members who are employed by certain Probation bargaining units now contribute for seven years of service, and Safety members who are employed by certain Firefighting bargaining units contribute 1% of pay after their five years of regular contributions cease. Probation officers who had already reached five years of service prior to the change were not required to re-start contributions. The 2010 changes for these Probation officers and Firefighters resulted in a 0.31% increase in the member contribution rate from our previous valuation.

Changes in the **Contribution Rates** (continued)

Note that, despite the increases in contributions from certain Probation officers and Firefighters, the total member rates for Safety employees decreased from a year ago. Most Safety members still do not contribute at all after five years of service. With relatively few new hires in the past year, the portion of Safety employees with less than five years of service has decreased significantly from a year ago and, therefore, the portion of Safety employees contributing at the full rates has also decreased significantly. The result is that the total member contribution rate for Safety employees has decreased, which increases the rate for employers.

- Effect of Tier II: The County, North of the River Sanitation District and the Kern County Water Agency have adopted a less costly benefit level under Tier II. As more employees are covered under Tier II rather than Tier I, the required aggregate employer contribution rate will decline.
- COLA Increases less than Expected: The annual COLA that KCERA retirees and beneficiaries are eligible to receive is based upon the change in the consumer price index. Our assumption is that all receive 2.50% increases each year. Because the CPI actually decreased over 2009, some members did not receive the full 2.5% increases in April 2010.

For retirees and beneficiaries retired on or before April 1, 2007, the COLA banks were drawn down and the full 2.5% COLA was granted on April 1, 2010. For those retired between April 2, 2007 and April 1, 2008, the COLA granted was 1.0%. For those retired after April 1, 2008, there was no COLA increase in April 2010.

- Salary Changes: Salaries increased by less than expected for continuing actives over the past year. Total payroll was flat, compared to an expected increase of 4%. The fact that salaries increased less than expected resulted in a decrease in the UAAL compared to expectations. However, that UAAL is amortized over a smaller than anticipated payroll. As a result, the UAAL rate increased from a year ago as a result of the changes in total payroll.
- **Demographic Changes:** When the termination, retirement, death and disability experience does not match expectations, gains and losses occur. There were small demographic gains for all groups over the past year.

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Exhibit 17: Gain and Loss Analysis by Employer Contribution Rates and Funded Ratio

Total Plan		
Sources of Change	Employer Contribution Rate	Funded Ratio
June 30, 2009 Actuarial Valuation (before application of the CCR)	36.42%	66.11%
Assumption Changes Expected Year-to-Year Change	0.00% 0.35%	0.00% 0.90%
Expected June 30, 2010 Actuarial Valuation	36.77%	67.01%
Investment Gain/Loss Change in Member Contribution Rates Effect of Tier II COLA Gain Lower Salary than Expected Demographic Changes Total Experience Change	2.21% -0.05% -0.28% -0.13% 0.53% -0.07% 2.21%	-4.81% 0.00% 0.00% 0.17% 0.23% 0.10% -4.31%
Actual June 30, 2010 Actuarial Valuation	38.98%	62.70%
Net change since June 30, 2009 General - County	2.56%	-3.41%
Sources of Change	Employer Contribution Rate	Funded Ratio
June 30, 2009 Actuarial Valuation (before application of the CCR)	33.00%	63.73%
Assumption Changes Expected Year-to-Year Change	0.00% 0.26%	0.00% 1.23%
Expected June 30, 2010 Actuarial Valuation	33.26%	64.96%
Investment Gain/Loss Change in Member Contribution Rates Effect of Tier II COLA Gain Lower Salary than Expected Demographic Changes Total Experience Change	1.83% -0.13% -0.38% -0.10% 0.51% -0.02% 1.71%	-4.64% 0.00% 0.00% 0.16% 0.20% 0.04% -4.24%
Total Experience Change	1.1 170	
Actual June 30, 2010 Actuarial Valuation	34.97%	60.72%

Cotal Plan

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Exhibit 17: Gain and Loss Analysis by Employer Contribution Rates and Funded Ratio (continued)

General - District		
Sources of Change	Employer Contribution Rate	Funded Ratio
June 30, 2009 Actuarial Valuation (before application of the CCR)	33.45%	55.73%
Assumption Changes	0.00%	0.00%
Expected Year-to-Year Change	0.28%	2.24%
Expected June 30, 2010 Actuarial Valuation	33.73%	57.97%
Investment Gain/Loss	1.53%	-4.61%
Change in Member Contribution Rates	-0.07%	0.00%
Effect of Tier II	-0.11%	0.00%
COLA Gain	-0.07%	0.12%
Lower Salary than Expected	0.14%	0.04%
Demographic Changes	-0.39%	0.72%
Total Experience Change	1.03%	-3.73%
Actual June 30, 2010 Actuarial Valuation	34.76%	54.24%
Net change since June 30, 2009	1.31%	-1.49%

Safety

Sources of Change	Employer Contribution Rate	Funded Ratio
June 30, 2009 Actuarial Valuation (before application of the CCR)	46.70%	71.12%
Assumption Changes	0.00%	0.00%
Expected Year-to-Year Change	0.62%	0.28%
Expected June 30, 2010 Actuarial Valuation	47.32%	71.40%
Investment Gain/Loss	3.44%	-5.12%
Change in Member Contribution Rates	0.19%	0.00%
Effect of Tier II	0.00%	0.00%
COLA Gain	-0.20%	0.20%
Lower Salary than Expected	0.71%	0.33%
Demographic Changes	-0.16%	0.10%
Total Experience Change	3.98%	-4.49%
Actual June 30, 2010 Actuarial Valuation	51.30%	66.91%
Net change since June 30, 2009	4.60%	-4.21%

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Accounting Information Section 7:



The Governmental Accounting Standards Board (GASB) sets standards for defined benefit pension plan reporting and disclosures (Statement No. 25). The reporting requirements for Statement No. 25 include certain supplementary information that must be added to the financial statements. These include:

- 1. A Schedule of Funding Progress
- 2. A Schedule of Employer Contributions

The Schedule of Funding Progress, Exhibit 18, compares actuarial assets and liabilities of KCERA, based on the actuarial funding method used. The required Schedule of Employer Contributions, Exhibit 19, compares the employer contributions required based on the actuarial valuation (the Actuarial Required Contribution, or ARC) with the employer contributions actually made. The ARC must be calculated based on certain parameters required for disclosure purposes.

We believe the actuarial methods and assumptions used in this valuation to determine the employer's contribution for funding purposes satisfy the GASB reporting requirements.

GASB Statement No. 27 specifies required reporting for pension accounting by state and local governmental employers.

The comparability of the data from year-to-year can be affected by changes in actuarial assumptions, benefit provisions, accounting policies, etc.

There are no benefit changes or assumption changes that occurred since our prior valuation.

Exhibit 20 compares the Valuation Assets to the types of Actuarial Accrued Liabilities, applying them first to Active Member contributions, then to retirees and beneficiaries, and then the remaining amount to the Active Members benefits. This is referred to as the Solvency Test. Although not required under GASB, this test is part of the CAFR guidelines specified by the Government Finance Officers Association (GFOA).

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Exhibit 18: Schedule of Funding Progress

(Dollars in Thousands)

Actuarial Valuation Date	Actuarial Value of Valuation Assets	Actuarial Unfunded Accrued AAL Liability (UAAL) (AAL) (3) - (2)		Funded Ratio (2) / (3)	Annual Covered Payroll	UAAL as a % of Annual Payroll (4) / (6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
12/31/1996	\$ 1,003,076	\$ 1,029,574	\$ 26,498	97.4%	\$ 273,351	9.7%
12/31/1997	1,113,914	1,140,019	26,105	97.7%	266,640	9.8%
12/31/1998	1,203,670	1,179,753	(23,917)	102.0%	282,251	-8.5%
12/31/1999	1,325,928	1,324,662	(1,266)	100.1%	297,738	-0.4%
12/31/2000	1,434,873	1,388,984	(45,889)	103.3%	283,283	-16.2%
12/31/2001 *	1,508,291	1,611,960	103,669	93.6%	333,791	31.1%
12/31/2002	1,570,278	1,899,031	328,753	82.7%	344,871	95.3%
12/31/2003	1,927,585	2,059,286	131,701	93.6%	353,444	37.3%
12/31/2004	2,012,521	2,336,406	323,885	86.1%	374,951	86.4%
12/31/2005 **	2,164,304	2,861,872	697,568	75.6%	391,381	178.2%
12/31/2006	2,352,028	3,109,038	757,010	75.7%	417,351	181.4%
12/31/2007	2,589,817	3,355,755	765,938	77.2%	453,412	168.9%
6/30/2008	2,654,305	3,671,460	1,017,155	72.3%	482,879	210.6%
6/30/2009	2,780,215	4,205,200	1,424,985	66.1%	559,872	254.5%
6/30/2010	2,794,644	4,457,038	1,662,395	62.7%	559,380	297.2%

* Reflects Safety member benefit increases.



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Exhibit 19: Schedule of Contributions from the Employer

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0%
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0%

* Reflects pension obligation bond proceeds.

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Exhibit 20: Solvency Test

(dollars in thousands)

	 Actuarial Accrued Liabilities for						Portion of AAL Covered by Valuation Assets					
Valuation Date	 ve Member tributions		Retired/Vested Members		tive Members bloyer-Financed Portion)		Total		uarial Value Valuation Assets	Active Member	Retired/Vested Members	Active Members (Employer-Financed Portion)
December 31, 2003	\$ 182,161	\$	1,067,016	\$	810,109	\$	2,059,286	\$	1,927,585	100%	100%	84%
December 31, 2004	191,485		1,147,206		997,715		2,336,406		2,012,521	100%	100%	68%
December 31, 2005	188,811		1,437,047		1,236,014		2,861,872		2,164,304	100%	100%	44%
December 31, 2006	197,507		1,629,003		1,282,527		3,109,037		2,352,028	100%	100%	41%
December 31, 2007	215,281		1,773,557		1,366,917		3,355,755		2,589,817	100%	100%	44%
June 30, 2008	222,418		1,913,946		1,535,096		3,671,460		2,654,316	100%	100%	34%
June 30, 2009	232,426		2,159,371		1,813,403		4,205,200		2,780,215	100%	100%	21%
June 30, 2010	229,784		2,380,826		1,846,429		4,457,038		2,794,644	100%	100%	10%



Section 8: SRBR – Supplemental Retirement Benefit Reserve



Additional benefits may be provided to KCERA active and retired members under the plan provisions adopted by the County as provided under Article 5.5 of the County Employees Retirement Law of 1937 (CERL). These are the Supplemental Retiree Benefit Reserve (SRBR) benefits, and the Board of Retirement has defined these as:

- Approved Benefits These are the SRBR benefits that have already been approved by the Retirement Board. They include all SRBR Tier I, SRBR Tier II and SRBR Death Benefits, as well as the SRBR Tier III benefits approved through June 30, 2010.
- Future Benefits These are the SRBR Tier III benefits expected to be approved in future years in order to maintain the 80% purchasing power goal.

Article 5.5 governs the crediting of interest to reserves and the allocation of Undistributed Earnings. Undistributed Earnings are the amounts that remain after earnings have been used to credit interest to the Plan's reserves. They are generally thought of as earnings in excess of those assumed to be earned under the actuarial valuation assumptions.

Under the provisions of Article 5.5, and in accordance with the Board's interest crediting policy, if Undistributed Earnings remain then 50% of those Earnings are credited to the SRBR fund and the remaining 50% are allocated as additional interest credits to all other reserve funds except the Contingency Reserve and the SRBR. See Section 3 Assets for a description of the Board's interest crediting policy.

Deflation in 2009 The Annual Average Consumer Price Index for All Urban Consumers (CPI-U) for the Los Angeles-Riverside-Orange County area, the basis for determining the SRBR Tier III benefits, actually decreased by 0.80% from 2008 to 2009. This means that the benefits required to maintain the 80% purchasing power goal also decreased. However, the Board elected to maintain the level of SRBR Tier III benefits for July 1, 2010 through June 30, 2011 at the level of the benefits for July 1, 2009 through June 30, 2010.

> For the valuation, we assume 3.25% increases to the CPI for every year, based upon our long-term assumption for inflation. Any savings due to lower than anticipated inflation in 2010 are not reflected in this valuation, but will be reflected in the June 30, 2011 valuation.

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Determination of	
SRBR Benefits	

The SRBR currently provides four categories of supplemental retiree benefits:

Tier 1 - \$35.50 per month payable to retirees who were hired on or before July 1, 1994.

Tier 2 – Three additional monthly stipends payable to retirees:

- \$1.372 per year of service for Members who retired prior to 1985. This was granted July 1, 1994.
- \$5.470 per year of service for Members who retired prior to 1985. This was granted July 1, 1996.
- \$10.276 per year of service for Members who retired prior to 1981. This was granted July 1, 1997.

Tier 3 – Additional benefits to maintain 80% purchasing power protection.

Death Benefit – A one-time payment of \$3,000 to a Member's beneficiary is made upon the death of the Member.

In addition, the KCERA Board has set aside a portion of the SRBR Reserve to help pay for an additional 0.5% COLA adopted under the Ventura Settlement.

By their very nature, Undistributed Earnings are produced on an inconsistent basis and cannot be counted on to appear in any single period. Because of this, the funding for SRBR Benefits is set up differently than funding for Regular Benefits. Undistributed Earnings are the only source of funding for these benefits. For this reason, KCERA compares the SRBR Reserve against three liability measures to understand its short-term, medium-term and long-term funding position. All of these funding targets are based on the Present Value of Benefits (PVB) for SRBR Benefits.

The PVB represents the amount of money, at the valuation date, which would be sufficient to pay for all SRBR Benefits for all current Plan Members if all plan assumptions are met in future years. In other words,

- If Plan Assets are equal to the PVB, and
- If current plan benefits remain in place, and
- If there are no new Plan Members, and
- If plan experience in all future years matches the assumptions,

----- then -----

There will be enough money to pay for all approved and future SRBR benefits for all Plan Members and their beneficiaries for the rest of their lives without another dollar being added to the SRBR Reserve from Undistributed Earnings.

Approved Benefits	Approved Benefits are the SRBR benefits that have already been approved by the Retirement Board. They include all Tier I, Tier II and Death Benefits, as well as the Tier III benefits approved through June 30, 2010. The Present Value of Approved Benefits is the short-term funding target for the SRBR. The Plan's funded ratio for Approved SRBR Benefits is 199.0%. It is calculated by dividing the Actuarial Value of Assets (\$121.7 million) by the Present Value of Approved SRBR Benefits (\$61.2 million).			
	The funded ratio is developed in the fol	low	ing table:	
	1. Present Value of Approved	Ber	nefits	
	a. Death Benefits b. SRBR1 c. SRBR2 d. SRBR3 e. Total 2. Available SRBR Reserves a. Total SRBR b. 0.5% COLA Account c. Available SRBR Reserve 3. Funded Ratio	\$\$\$	7,624,813 29,063,397 9,401,676 <u>15,072,922</u> 61,162,808 198,860,206 <u>77,154,463</u> 121,705,744 199.0%	
Targeted Funding	In 2001, KCERA did an extensive revie through the SRBR and the financial stre Board decided to use a target based or Approved and Projected SRBR Benefits the PVB for SRBR Tier I, SRBR Tier II Benefits. For SRBR Tier III Benefits, th Present Value of projected payments for 20-year period beginning with the value On this basis, the Plan's funded ratio for is 180.2%. It is calculated by dividing th Assets (\$121.7 million) by the Present V Liabilities (\$67.6 million).	ength of the SRBR. The a combination of s. The target liability is and SRBR Death the target liability is the or the ation date. Target SRBR Liabilities the Actuarial Value of		

Targeted Funding (continued)	Under the Board's 20/20 policy, the goal is to have a 20% reserve for the death benefits, SRBR1 and SRBR2 benefits and 20 years of expected SRBR3 payments as shown below.			
	1. Present Value of Targeted	Funding		
	Liabilities With Re			
	a. Death Benefits	\$ 7,624,813	\$ 9,149,776	
	b. SRBR1	29,063,397	34,876,076	
	c. SRBR2 d. SRBR3 (20 years)	9,401,676 21,463,123	11,282,011 21,463,123	
	e. Total	<u>21,463,123</u> \$ 67,553,009	\$ 76,770,986	
	2. Available SRBR Reserves			
	a. Total SRBR	\$ 198,860,206	\$ 198,860,206	
	b. 0.5% COLA Account	77,154,463	77,154,463	
	c. Available SRBR Reserve	\$ 121,705,744	\$ 121,705,744	
	3. Funded Ratio	180.2%	158.5%	
	Under the Board's 20/20 policy, if the liabilities of the targeted benefits with a 20% reserve on all but the SRBR3 20-year projection of benefits are more than 100% funded, the Board may consider increasing the SRBR approved benefits. As of June 30, 2010, the funded ratio is over the 100% benchmark, at 158.5%.			
Total SRBR Benefits	btal SRBR BenefitsKCERA's long-term funding target for the SRBR is based on the Present Value of all SRBR Benefits. The Plan's funded ratio for all SRBR Benefits is 155.6%. It is calculated by dividing the Actuarial Value of Assets (\$121.7 million) by the Present Value of all SRBR Benefits (\$78.2 million).The funded ratio is developed in the following table:			
	Total Benefits			
	1. Present Value a. Approved Ben b. Future Benefit c. Total	efits \$	61,162,808 <u>17,075,885</u> 78,238,693	
	2. Available SRBI	R Reserves		
	a. Total SRBR		98,860,206	
	b. 0.5% COLA A		77,154,463	
	c. Available SRB		21,705,744	
	3. Funded Ratio		155.6%	

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Total SRBR Benefits (continued)

The funded ratio increased to 155.6% from 144.1% in our last valuation. The following table quantifies the impact of various changes. The assets were credited with no earnings in the past year, while it is expected that they will be credited with 7.75% earnings.

The SRBR3 benefits are highly sensitive to changes in the CPI. The CPI actually decreased by 0.80% in 2009, compared to an expected increase of 3.25%. As seen below, this decline in CPI resulted in a significant increase in the funded status for SRBR benefits.

	Funded Status	Change
Prior Year	144.1%	
Passage of Time		3.5%
Asset Loss		-10.9%
Inflation lower than expected in 2009		19.8%
Liability Loss		-0.9%
Total Change:		11.5%
Current Year	155.6%	

Exhibits 21 and 22 on the following pages show further detail on the SRBR present value of benefits by member status, and the present value of the year-by-year projected SRBR3 benefit payments for both active and retired members for the next 20 years.

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Exhibit 21: **Supplemental Retiree Benefit Reserve**

Present Value of Projected Benefits

Approved Benefits					
	Death Ben	SRBR1	SRBR2	SRBR3	Total
Active Members Deferred Vested Members	\$ 2,046,042	\$ 6,639,519 1,536,780	\$	\$	\$ 8,685,561
Retirees and Beneficiaries	346,315 5,232,456	20,887,098	9,401,676	15,072,922	1,883,095 50,594,152
Total	\$ 7,624,813	\$ 29,063,397	\$ 9,401,676	\$ 15,072,922	\$ 61,162,808
	,		• •,•••,•••	*,	, .,,,
Future Benefits					
	Death Ben	SRBR1	SRBR2	SRBR3	Total
Active Members Deferred Vested Members				\$ 4,484,369 160,001	\$ 4,484,369 160,001
Retirees and Beneficiaries				12,431,516	12,431,516
Total	0	0	0	\$ 17,075,885	\$ 17,075,885
Total Approved and Future Benef	Death Ben	SRBR1	SRBR2	SRBR3	Total
Active Members	\$ 2,046,042	\$ 6,639,519	\$ 0	\$ 4,484,369	\$ 13,169,930
Deferred Vested Members	346,315	1,536,780	0	160,001	2,043,096
Retirees and Beneficiaries	5,232,456	20,887,098	9,401,676	27,504,438	63,025,668
Total	\$ 7,624,813	\$ 29,063,397	\$ 9,401,676	\$ 32,148,807	\$ 78,238,693
Available Reserves					
Total SRBR	¢ 100.000.000				
Additional 0.5% COLA Account	\$ 198,860,206 77,154,463				
Available SRBR	\$ 121,705,744				
	•				
Funded Ratios					
Approved Benefits	199.0%				
Total Approved and Future Benefits	155.6%				
Members Eligible for Approved Benefits					
	Death Ben	SRBR1	SRBR2	SRBR3	
Active Members	8,567	2,168			
Deferred Vested Members	1,152	542			
Retirees and Beneficiaries	5,222	5,663	754	<u>622</u> 622	
Total	14,941	8,373	754	622	

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	Calendar Year	Projected SRBR 3 Payments	
	2010	\$ 2,354,215	
	2011	2,217,621	
	2012	2,156,006	
	2013	2,126,945	
	2014	2,107,139	
	2015	2,101,351	
	2016	2,093,615	
	2017	2,123,864	
	2018	2,105,458	
	2019	2,081,238	
	2020	2,054,964	
	2021	2,022,885	
	2022	1,984,543	
	2023	1,944,629	
	2024	1,901,410	
	2025	1,852,886	
	2026	1,800,461	
	2027	1,749,735	
	2028	1,698,515	
	2029	1,645,721	
Value	e of Non-Discounted 20-Year Cash F	Flow:	\$40,123,202
Prese	ent Value of Projected 20-Year Cash	Flow:	\$21,463,123

Exhibit 22: **Projected Cash Flow for SRBR Tier 3 Payments**

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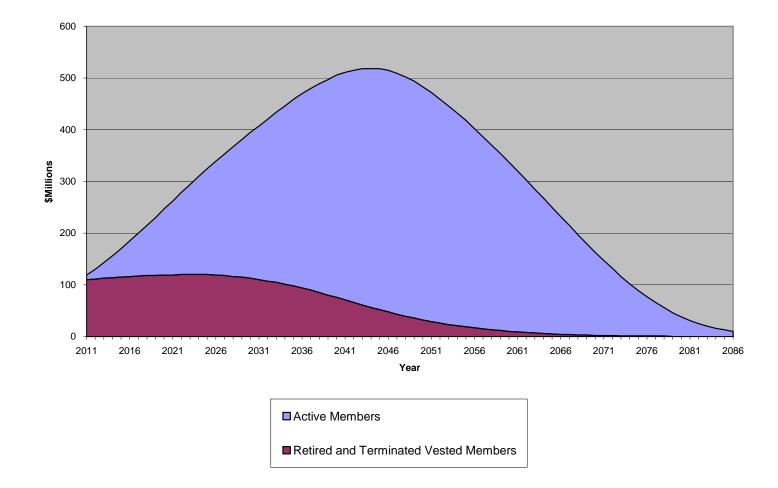
Section 9: **Benefit Payment Projections**



Cash Flow Projection The graphs on the next two pages illustrate the expected dollar amount of future annual benefit payments. These projected payments are based on:

- 1. Current members, both active and inactive; no new members are included in these projections.
- 2. Current actuarial assumptions regarding the demographic changes in the membership; future salary increases and future COLA benefit increases based on price inflation.
- 3. The assumption that no additional benefit changes occur during the 75-year projection period.

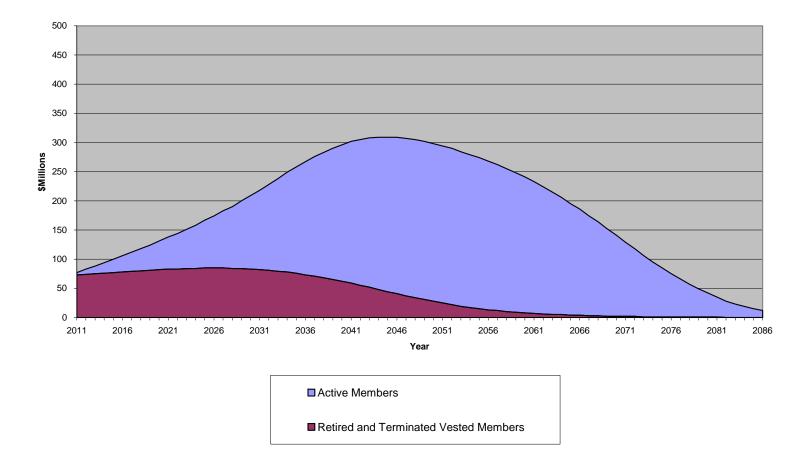
General Members- Projected Benefit Payments





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Safety Members- Projected Benefit Payments





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Appendix A

Actuarial Assumptions

The actuarial procedures and assumptions recommended to be used in the June 30, 2010 valuation are described in this section. The actuarial assumptions used in the valuations are intended to estimate the future experience of the members of KCERA in areas that affect the projected benefit flow and anticipated investment earnings. Any variations in future experience from that expected from these assumptions will result in corresponding changes in the estimated costs of KCERA's benefits. All assumptions were reviewed during the 2008 Investigation of Experience study. The next study is expected as of June 30, 2011.

All assumptions remain the same as those used for the 2009 valuation.

Table A-1 summarizes the assumptions. The mortality rates are taken from the sources listed.

Schedule 1 presents the expected annual percentage increase in salaries.

Schedules 2 and 3 show how members are expected to leave retired status due to death.

Schedules 4, 5 and 6 present the probabilities a member will leave the system for various reasons.

Schedule 7 presents the probability of refund of contributions upon termination of employment while vested.

The major assumptions and methods used in this valuation are as follows:

ECONOMIC ASSUMPTIONS

Investment Earnings and Expenses:	The future investment earnings of the assets of KCERA are assumed to accrue at an annual rate of 7.75%, compounded annually, net of both investment and administrative expenses.
	NOTE: This assumption does not reflect the probability of any excess earnings and potential allocation of future interest credits to the CCR or SRBR Reserves.
Postretirement Benefit Increases:	Postretirement increases are assumed for the valuation in accordance with the benefits provided as described in Appendix B of the valuation report. These adjustments are assumed payable each year in the future as they are less than the expected increase in the Consumer Price Index of 3.25% per year.
Salary Increase – Total Payroll:	4.0% per year.

Salary Increase – Individual:	Rates varying by service, as shown in Schedule 1.
Inflation (CPI):	3.25% per year.
Interest on Member Contributions:	The annual credited interest rate on member contributions is assumed to be 7.75% compounded semi-annually.
DEMOGRAPHIC ASSUMPTIONS	
Mortality:	
Service Retirement – General:	RP-2000 Combined Healthy Mortality.
	Rates are set back two years for females and one year for males.
	Mortality rates for the adjusted table are shown in Schedule 2.
Service Retirement – Safety:	Rates are the same as General.
Disability Retirement – General:	RP-2000 Combined Healthy Mortality.
	Rates set forward four years for females and two years for males. Rates are not less than 1.00% for both males and females.
	Mortality rates for the adjusted table are shown in Schedule 3.
Disability Retirement – Safety:	RP-2000 Combined Healthy Mortality.
	Rates are not less than 0.50% for both males and females.
	Mortality rates for the adjusted table are shown in Schedule 3.
Beneficiary:	Rates are the same as a General service retiree of the same gender.
Unisex Mortality:	For optional benefit forms and member contribution rate calculations, a unisex mortality assumption must be used to calculate annuity factors.
	For General members, the annuity factors are based on a one-third/two-thirds blend of the male and female mortality tables using current valuation assumptions.
	For Safety members, the annuity factors are based upon a five-sixths/one-sixth blend of the male and female mortality tables using current valuation assumptions.

Other Termination:	Rates varying by years of service, as shown in Schedule 4 (for General males), 5 (for General females) and 6 (for Safety). Note that these decrements are not applied after eligibility for retirement.
Probability of Refund:	Rates varying by years of service, as shown in Schedule 7.
Reciprocal Agency:	For current active members, the probability of joining a reciprocal agency immediately after termination is 50% for Safety members and 50% for General members. For members who have already terminated vested with a deferred commencement, we use the code provided by the KCERA to determine if the person has joined a reciprocal agency. All terminating members are assumed to not be rehired.
Deferred Retirement Age for Vested Termination:	Age 50 for Safety members. Age 60 for General members.
Salary Projection for Vested Termination with Reciprocity:	Salaries are assumed to increase with wage inflation from termination with KCERA to benefit commencement. The assumed annual increase after termination of employment is 4.52% for General members and 4.78% for Safety members.
Service Disability:	Rates varying by age, as shown in Schedule 4 (for General males), 5 (for General females) and 6 (for Safety).
Ordinary Disability:	Rates varying by age, as shown in Schedule 4 (for General males), 5 (for General females) and 6 (for Safety).
Service Retirement:	Rates varying by age, as shown in Schedule 4 (for General males), 5 (for General females) and 6 (for Safety). All General members who attain or who have attained age 70 in active service and all Safety members who have attained age 60 in active service are assumed to retire immediately.
	The assumptions regarding termination of employment and service retirement are treated as a single set of decrements in regards to a particular member.

Service Retirement: (continued)	For example, a General member hired at age 30 has a probability to withdraw from KCERA due to death, disability or other termination of employment until age 50. After age 50, the member could still withdraw due to death, disability or retirement. Thus, in no year during the member's projected employment would they be eligible for both a probability of other termination of employment and a probability of retirement.
Form of Payment:	Life annuity for single members. 60% contingent annuity for married members (100% contingent annuity if receiving service-related disability).
	SRBR benefits for married members are all assumed to be paid as a 60% contingent annuity.
Percentage Married at Retirement:	80% of male active members and 55% of female active members are assumed to have a spouse or qualified domestic partner eligible for the 60% continuance at retirement. There is no explicit assumption for children's benefits. We believe the survivor benefits based on this marriage assumption are sufficient to cover children's benefits as they occur.
Spouse Ages:	For active members reaching retirement, wives are assumed to be three years younger than husbands.
	Where spousal information was included for retirees, that information was used. If the age of the spouse was not provided, we have assumed that all spouses are still alive, and that female spouses are three years younger than their husbands.
ACTUARIAL METHODS	
Actuarial Cost Method:	The actuarial valuation is prepared using the entry age actuarial cost method (CERL 31453.5). Under the principles of this method, the actuarial present value of the projected benefits of each individual included in the valuation is allocated as a level percentage of the individual's projected compensation between entry age and assumed exit (until maximum retirement age).
	The portion of this actuarial present value allocated to a valuation year is called the normal cost. The portion of this actuarial present value not provided for at a valuation date by the sum of (a) the actuarial value of the assets, and (b) the actuarial present value of future normal costs is called the Unfunded Actuarial Accrued Liability (UAAL).



Amortization Period:

The UAAL due to the change to the benefit formula for General members is amortized as a level percentage of payroll over a 30-year period beginning with the December 31, 2005 valuation, or 25.5 years as of June 30, 2010.

The UAAL due to all other sources is amortized as a level percentage of payroll over a 27.5-year period beginning with the June 30, 2008 valuation, or 25.5 years as of June 30, 2010.

Any UAAL attributable to Golden Handshake programs will be paid by the employer by one of two methods, as elected by the employer:

- a. Payment in full for the UAAL attributable to the Golden Handshake(s) in the first month of the fiscal year following the fiscal year in which the Golden Handshake(s) was granted.
- b. According to a five-year amortization which will be invoiced (payable in 30 days) to the employer in the first month of the fiscal year following the fiscal year in which the Golden Handshake(s) was granted. The amortization schedule will be based upon the valuation interest rate used in the most recently completed valuation at the time that the amortization schedule is created. The employer may complete payment of the Golden Handshake(s) at any time during the five-year amortization period.

If the amortization method is used, the outstanding balance will be recorded as a receivable asset to be included with the Actuarial Value of Assets. All Golden Handshakes provided by an employer during any fiscal year will be bundled together and will be invoiced in one transaction in the first month following the fiscal year in which the Golden Handshakes were granted.

Actuarial Value of Assets: The market value of assets (MVA) is adjusted to recognize, over a five-year period, investment earnings greater than (or less than) the assumed investment return. The actuarial value of assets (AVA) is limited by a 50% corridor: the AVA cannot be less than 50% of MVA, nor greater than 150% of MVA. Details are shown in Section 3, Assets, of this report.



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Replacement of Terminated Members:	The ages and relative salaries at entry of future members are assumed to follow a new entrant distribution based on the pattern of current members. Under this assumption, the normal cost rates for active members will remain fairly stable in future years unless there are changes in the governing law, the actuarial assumptions or the pattern of the new entrants.
Growth in Membership:	For benefit determination purposes, no growth in the membership of KCERA is assumed. For funding purposes, if amortization is required, the total payroll of covered members is assumed to grow due to the combined effects of future wage increases of current active members and the replacement of the current active members by new employees. No growth in the total number of active members is assumed.
Internal Revenue Code Section 415 Limit:	The Internal Revenue Code Section 415 maximum benefit limitations are not reflected in the valuation for funding purposes. Any limitation is reflected in a member's benefit after retirement.
Employer Contributions:	The employer contribution rate is set by the Retirement Board based on actuarial valuations.
	The rates will be effective for the fiscal year commencing one year after the actuarial valuation date. The rates are adjusted to reflect the expected changes in the UAAL between the valuation date and implementation date.
Member Contributions:	The member contribution rates vary by entry age and are described in the law. Code references are shown in Appendix D of this report. The methods and assumptions used are detailed below.
	The individual member rates by entry age, plan and class are illustrated in Appendix D.



Member Contribution Rate Assumptions:

The following assumptions summarize the procedures used to compute member contribution rates based on entry age:

In general, the member rate is determined by the present value of the future benefit (PVFB) payable at retirement age, divided by the present value of all future salaries payable between age at entry and retirement age.

For these purposes, per the CERL, the:

- a. Annuity factor used for General members is based on a one-third / two-thirds blend of the male and female mortality tables using current valuation assumptions. For Safety members it is based on a five-sixths / one-sixth blend.
- b. The annuity factor used in determining the PVFB at entry age is equal to the life only annuity factor at 8%.
- c. The Final Compensation is based on the salary paid in the year prior to attaining the retirement age.

Example: For a General member who enters at age 59 or earlier, the Final Compensation at retirement (age 60) will be the monthly average of the annual salaries during age 59.

d. Member Rates are assumed to increase with entry age. There are a few exceptions at the higher entry ages where the calculated rate is less than the previous entry age. In these cases the member contribution rate is adjusted so that it is no less than the value for the previous entry age. Also, the new Safety 3 rates do not vary by entry age.

DATA SOURCES

Asset Data:

Member Data:

The asset information is taken directly from statements furnished by the Retirement Office and used without audit.

The member data is supplied by the Retirement Office. It is reviewed for reasonableness and consistency, but no audit was performed. Milliman is not aware of any errors or omissions in the data that would have a significant effect on the results of our calculations.

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Table A-1 Summary of Valuation Assumptions as of June 30, 2010

Ι.	Economic assumptions	
	A. General wage increases	4.00%
	B. Investment earnings	7.75%
	C. Growth in active membership	0.00%
	D. CPI inflation assumption	3.25%
II.	Demographic assumptions	
	A. Salary increases due to service	Schedule 1
	B. Retirement	Schedules 4-6
	C. Disablement	Schedules 4-6
	D. Mortality for active members after termination and	
	service retired members	Schedule 2
	Basis – RP-2000 Combined Healthy Mortality:	

Class of Members	Age <u>Adjustment</u>
General – Males	-1 years
General – Females	-2 years
Safety – Males	-1 years
Safety – Females	-2 years

E. Mortality among disabled members

Schedule 3

Basis – RP-2000 Combined Healthy Mortality:

Class of Members	Age <u>Adjustment</u>	Minimum <u>Rate</u>	
General – Males	+2 years	1.00%	
General – Females	+4 years	1.00%	
Safety – Males	none	0.50%	
Safety – Females	none	0.50%	

F. Mortality for beneficiaries

Schedule 3

Basis - Beneficiaries are assumed to be of the opposite sex and have the same mortality as General members.

G. Other terminations of employment Schedules 4-6 H. Refund of contributions on vested termination Schedule 7

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Schedule 1 **Assumed Rate of Salary Increase**

Annual Increase in Salary (before wage inflation)

Years of Service	General Members	Safety Members
0	6.00%	6.00%
1	5.00%	5.00%
2	4.00%	4.00%
3	3.00%	3.00%
4	2.50%	2.50%
5	2.25%	2.25%
6	2.00%	2.00%
7	1.75%	1.75%
8	1.50%	1.50%
9	1.30%	1.30%
10	1.10%	1.10%
11	0.90%	0.90%
12	0.80%	0.80%
13	0.70%	0.75%
14	0.60%	0.75%
15 or More	0.50%	0.75%

Annual Increase in Salary (with wage inflation)

Years of Service	General Members	Safety Members
		10.010/
0	10.24%	10.24%
1	9.20%	9.20%
2	8.16%	8.16%
3	7.12%	7.12%
4	6.60%	6.60%
5	6.34%	6.34%
6	6.08%	6.08%
7	5.82%	5.82%
8	5.56%	5.56%
9	5.35%	5.35%
10	5.14%	5.14%
11	4.94%	4.94%
12	4.83%	4.83%
13	4.73%	4.78%
14	4.62%	4.78%
15 or More	4.52%	4.78%



Schedule 2 Mortality for Members Retired for Service

Age	General/Safety Male	General/Safety Female
20	0.033%	0.019%
25	0.038%	0.020%
30	0.041%	0.024%
35	0.070%	0.039%
40	0.102%	0.060%
45	0.140%	0.094%
50	0.200%	0.143%
55	0.320%	0.221%
60	0.595%	0.392%
65	1.128%	0.765%
70	1.980%	1.345%
75	3.390%	2.297%
80	5.793%	3.760%
85	9.978%	6.251%
90	16.642%	10.730%



Age	General Male	General Female	Safety Male	Safety Female
20	1.000%	1.000%	0.500%	0.500%
25	1.000%	1.000%	0.500%	0.500%
30	1.000%	1.000%	0.500%	0.500%
35	1.000%	1.000%	0.500%	0.500%
40	1.000%	1.000%	0.500%	0.500%
45	1.000%	1.000%	0.500%	0.500%
50	1.000%	1.000%	0.500%	0.500%
55	1.000%	1.000%	0.500%	0.500%
60	1.000%	1.000%	0.675%	0.506%
65	1.608%	1.486%	1.274%	0.971%
70	2.728%	2.546%	2.221%	1.674%
75	4.691%	4.151%	3.783%	2.811%
80	8.049%	6.952%	6.437%	4.588%
85	13.604%	11.915%	11.076%	7.745%
90	21.660%	18.280%	18.341%	13.168%

Schedule 3 Mortality for Members Retired for Disability

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Schedule 4 Probability of Separation from Active Service General Members – Male

(Number separating at each age per 10,000 working at that age)

Age	Ordinary Death	Service Death	Ordinary Disability	Service Disability	Tier I	Tier II	Years of Service	Other Terminations
20	3	0	2	3	0	0	0	2,000
21	3	0	2	3	0	0	1	1,400
22	4	0	2	3	0	0	2	1,000
23	4	0	2	3	0	0	3	700
24	4	0	2	3	0	0	4	620
25	4	0	2	3	0	0	5	553
26	4	0	2	3	0	0	6	487
27	4	0	2	3	0	0	7	420
28	4	0	2	3	0	0	8	386
29	4	0	2	4	0	0	9	352
30	4	0	3	4	0	0	10	318
31	4	0	3	4	0	0	11	284
32	5	0	3	5	0	0	12	250
33	6	0	3	5	0	0	13	240
34	6	0	4	6	0	0	14	230
35	7	0	4	6	0	0	15	220
36	8	0	5	7	0	0	16	210
37	8	0	5	8	0	0	17	200
38	9	0	6	8	0	0	18	180
39	10	0	6	9	0	0	19	160
40	10	Ő	7	10	0	0	20	140
41	11	0	7	11	0	0	21	120
42	11	Ő	8	12	0	0	22	100
43	12	0	9	13	0	0	23	100
44	13	0	10	14	0	0	24	100
45	14	0	10	16	õ	õ	25	100
46	15	0	11	17	0	0	26	100
47	16	0	12	18	0	0	27	100
48	17	Ő	14	22	0	0	28	100
49	19	0	17	25	0	0	29	100
50	20	Ő	19	29	600	300	30 & Above	100
51	21	0	22	32	300	300		
52	23	Ő	24	36	400	300		
53	24	0	24	36	500	300		
54	26	0	24	36	500	300		
55	28	Ő	24	36	1000	800		
56	30	0	24	36	1100	600		
57	33	0	24	36	1400	800		
58	36	0	23	35	1700	1200		
59	40	0	22	34	1800	1300		
60	44	0	22	32	2000	1500		
61	49	0	21	31	2600	2000		
62	54	0	20	30	3200	3200		
63	59	0	19	29	3000	3000		
64	65	0	18	28	3000	3000		
65	70	0	18	26	3000	3000		
66	76	0	17	25	3000	3000		
67	81	0	16	24	3000	3000		
68	86	0	15	23	3000	3000		
69	91	0	14	22	3000	3000		
70	95	0	0	0	10000	10000		

Schedule 5 Probability of Separation from Active Service General Members – Female

(Number separating at each age per 10,000 working at that age)

Age	Ordinary Death	Service Death	Ordinary Disability	Service Disability	Tier I	Tier II	Years of Service	Other Terminations
20	2	0	2	3	0	0	0	2,000
21	2	õ	2	3	0	õ	1	1,400
22	2	ů 0	2	3	0	õ	2	1,000
23	2	0 0	2	3	0	õ	3	700
24	2	ů 0	2	3	0	õ	4	620
25	2	0	2	3	Ő	0	5	553
26	2	0	2	3	0	0	6	487
27	2	0	2	3	0	0	7	420
28	2	0	2	3	0	0	8	386
29	2	0	2	4	0	0	9	352
30	2	0	3	4	0	0	10	318
31	2	0	3	4	0	0	11	284
32	3	0	3	5	0	0	12	250
33	3	0	3	5	0	0	13	240
34	4	0	4	6	0	0	14	230
35	4	0	4	6	0	0	15	220
36	4	0	5	7	0	0	16	210
37	5	0	5	8	0	0	17	200
38	5	0	6	8	0	0	18	180
39	6	0	6	9	0	0	19	160
40	6	0	7	10	0	0	20	140
41	6	0	7	11	0	0	21	120
42	7	0	8	12	0	0	22	100
43	8	0	9	13	0	0	23	100
44	9	0	10	14	0	0	24	100
45	9	0	10	16	0	0	25	100
46	10	0	11	17	0	0	26	100
47	11	0	12	18	0	0	27	100
48	12	0	14	22	0	0	28	100
49	13	0	17	25	0	0	29	100
50	14	0	19	29	600	300	30 & Above	100
51	16	0	22	32	600	300		
52	17	0	24	36	600	300		
53	18	0	24	36	600	300		
54	20	0	24	36	600	300		
55	21	0	24	36	800	400		
56	23	0	24	36	1000	600		
57	25	0	24	36	1200	700		
58	28	0	23	35	1500	900		
59	30	0	22	34	1800	1000		
60	33	0	22	32	2200	1200		
61	36	0	21	31	2000	1400		
62	39	0	20	30	3000	3000		
63	43	0	19	29	3000	3000		
64	47	0	18	28	3000	3000		
65	50	0	18	26	3000	3000		
66	54	0	17	25	3000	3000		
67	58	0	16	24	3000	3000		
68	62 66	0	15	23 22	3000	3000		
69 70		0	14		3000	3000		
70	69	0	0	0	10000	10000		

Schedule 6 **Probability of Separation from Active Service Safety Members**

(Number separating at each age per 10,000 working at that age)

Age	Ordinary Death*	Service Death	Ordinary Disability	Service Disability	Service Retirement	Years of Service	Other Terminations
20	3	2	0	3	0	0	700
21	3	2	0	5	0	1	500
22	4	2	0	7	0	2	400
23	4	2	0	9	0	3	300
24	4	2	0	11	0	4	300
25	4	2	0	13	0	5	283
26	4	2	0	16	0	6	267
27	4	2	0	19	0	7	250
28	4	2	0	22	0	8	240
29	4	2	0	25	0	9	230
30	4	2	0	28	0	10	220
31	4	2	0	32	0	11	210
32	5	2	0	36	0	12	200
33	6	2	0	40	0	13	170
34	6	2	0	44	0	14	140
35	7	2	0	48	0	15	110
36	8	2	0	54	0	16	80
37	8	2	0	60	0	17	50
38	9	2	0	66	0	18	50
39	10	2	0	72	0	19	50
40	10	2	0	78	0	20 & Above	0
41	11	2	0	90	0		
42	11	2	0	102	0		
43	12	2	0	114	0		
44	13	2	0	126	0		
45	14	2	0	138	100		
46	15	2	0	150	50		
47	16	2	0	162	50		
48	17	2	0	174	100		
49	19	2	0	186	200		
50	20	2	0	198	1200		
51	21	2	0	216	1200		
52	23	2	0	234	1200		
53	24	2	0	252	1200		
54	26	2	0	270	1500		
55	28	2	0	288	1700		
56	30	2	0	306	2000		
57	33	2	0	324	2300		
58	36	2	0	342	2500		
59	40	2	0	360	2500		
60	44	2	0	0	10000		

* Ordinary death rates for female Safety members are assumed to be the same as for female General members.



Schedule 7 Immediate Refund of Contributions upon Termination of Employment

Years of		
Service	General	Safety
0	100%	100%
1	100%	100%
2	100%	100%
3	100%	100%
4	100%	100%
5	45%	40%
6	45%	40%
7	45%	40%
8	42%	36%
9	39%	32%
10	36%	28%
11	33%	24%
12	30%	20%
13	28%	17%
14	26%	14%
15	24%	11%
16	22%	8%
17	20%	5%
18	18%	4%
19	16%	3%
20	14%	0%
21	12%	0%
22	10%	0%
23	8%	0%
24	6%	0%
25	4%	0%
26	2%	0%
27	0%	0%
28	0%	0%
29	0%	0%
30 & Up	0%	0%



Appendix B

Benefit Summaries

GENERAL AND SAFETY MEMBERS					
Membership:	Employment (at least 50% of full-time) with County or participating District. Enter on first day of the first pay period after entrance into service.				
Final Average Salary (FAS):	Highest one-year average.				
SERVICE RETIREMENT SPECIFIC TO GE	NERAL TIER I MEMBERS				
Code Section:	31676.17 (3% at 60).* 31676.14 (1.667% at 52).**				
Eligibility:	Tier I generally applies to KCERA General members hired by the County prior to October 27, 2007, or hired by North of the River Sanitation District prior to October 29, 2007, or hired by the Kern County Water Agency prior to January 1, 2010. All other district employees, regardless of hire date, are eligible for Tier I.				
Retirement Eligibility:	10 years of service and age 50, or 30 years of service regardless of age, or age 70 regardless of service.				
Benefit:	2.0%, or one-fiftieth (1/50) of FAS per year of service times Retirement Adjustment Factor (RAF).				
Retirement Age Factor (RAF):	Sample factors:				
	AgeFactor501.0000551.250060 and older1.5000				
Integration with Social Security:	Benefits based on first \$350 of monthly FAS are reduced by 1/3. Benefits for some District members are not integrated with Social Security.				
Maximum Benefit:	100% of FAS.				
Normal Form of Benefit:	Life annuity; 60% continuance to spouse after death of retiree. If there is no surviving spouse, the benefit is paid to eligible children.				

* Note: CERL 31676.17 (3% at 60) was adopted by the Board of Supervisors, effective January 1, 2005.

** Two General Districts, Berrenda Mesa and Inyokern, have adopted 31676.17 on a prospective basis only as of January 1, 2005, but have Section 31676.14 for service prior to January 1, 2005.

Code Section:	31676.01 (1.62% at 65)	*
Eligibility:	members hired by the C October 27, 2007, or hir Sanitation District on or or hired by the Kern Co after January 1, 2010.	red by North of the River after October 29, 2007, unty Water Agency on or This tier does not apply es outside of North of the
Retirement Eligibility:		h 10 years of service and ervice regardless of age, service.
Benefit:	1.11%, or one-ninetieth service times Retiremer (RAF).	(1/90) of FAS per year of nt Adjustment Factor
Retirement Age Factor (RAF):	Sample factors:	
	Age 55 60 65 and older	Factor 0.8954 1.1500 1.4593
Integration with Social Security:	reduced by 1/3. Benefits	\$350 of monthly FAS are s for some District ated with Social Security.
Maximum Benefit:	100% of FAS.	
Normal Form of Benefit:	Life annuity; 60% contir death of retiree. If there the benefit is paid to elig	is no surviving spouse,

* Note: CERL 31676.01 (1.62% at 65) was adopted by the Board of Supervisors, effective October 27, 2007 for County members, was adopted by the North of the River Sanitation District, effective October 29, 2007, and was adopted by the Kern County Water Agency, effective January 1, 2010.

SERVICE RETIREMENT SPECIFIC TO SAFETY MEMBERS

Code Section:	31664.1 effective January 1, 2001.	
Retirement Eligibility:	10 years of service and age 50, or 20 years of service regardless of age.	
Benefit:	3.000% of FAS per year of service times Retirement Adjustment Factor (RAF).	
Retirement Age Factor (RAF):	Sample factors:	
	Age 41 45 50 and above	Factor 0.6258 0.7805 1.0000
Integration with Social Security:	Benefits based on first \$350 of monthly FAS are reduced by 1/3.	
Maximum Benefit:	100% of FAS.	
Normal Form of Benefit:	Life annuity; 60% continuance to spouse after death of retiree. If there is no surviving spouse the benefit is paid to eligible children.	

GENERAL TIER I, GENERAL TIER II, AND SAFETY MEMBERS

Retirement Benefit as a percentage of FAS per year of service:						
	Age 45	Age 50	Age 55	Age 60	Age 65 & Up	
General Tier I		2.000%	2.500%	3.000%	3.000%	(31676.17)
General Tier I	1	0.788%	0.995%	1.278%	1.621%	(31676.01)
Safety	2.342%	3.000%	3.000%	3.000%	3.000%	(31664.1)

NONSERVICE-CONNECTED DISABILITY

Eligibility:	Five years of service.
Disabled Definition:	Unable to perform his/her own job.
Benefit:	20% of FAS, plus 2% of FAS for each full year of service in excess of five, but not more than 40% of FAS.
Normal Form of Benefit:	Life annuity; 60% continuance to spouse after death of retiree. If there is no surviving spouse, the benefit is paid to eligible children.



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SERVICE-CONNECTED DISABILITY	
Eligibility:	First day of work.
Disabled Definition:	Disability is substantially caused by employment and unable to perform his/her own job.
Benefit:	50% of salary, but not less than Service Retirement benefit (if eligible at time of commencement).
Normal Form of Benefit:	Life annuity; 100% continuance to spouse after death of member. If there is no surviving spouse, the benefit is paid to eligible children.
NONSERVICE-CONNECTED DEATH	
Before eligible for Nonservice- Connected Disability or Service Retirement:	Refund of employee contributions with interest, plus one month's salary for each year of service (maximum six months' salary).
After eligible for Nonservice-Connected Disability or Service Retirement:	60% of Nonservice-Connected Disability Benefit or Service Retirement Benefit the member would have received for retirement on day of death payable to surviving eligible spouse for the life of the spouse. If there is no surviving spouse, the benefit is paid to eligible children.
SERVICE-CONNECTED DEATH	
Eligibility:	First day of work.
Benefit:	50% of salary, but not less than Service Retirement benefit (if eligible at time of commencement).
Normal Form of Benefit:	Life annuity to spouse after death of member. If there is no surviving spouse, the benefit is paid to eligible children.



DEFERRED SERVICE RETIREMENT	
Eligibility:	Five years of service.
Additional requirement:	Must leave contributions on deposit.
Benefit:	Same as service retirement benefit.
FAS:	If reciprocity provisions apply, includes compensation earned at reciprocal agency.
Normal Form of Benefit:	Same as service retirement benefit.
WITHDRAWAL	
Eligibility:	First day of work.
Other Requirement:	Forfeits right to receive other benefit from retirement system.
Benefit:	Accumulated contributions with interest.
Form of Benefit:	Lump sum.
COST-OF-LIVING BENEFITS	
Timing:	Annually, effective April 1 based on change in Consumer Price Index for the preceding calendar year.
Maximum:	2.5% per year.
SUPPLEMENTAL RETIREE BENEFIT RESERVE	
It should be noted that this valuation makes no explicit or implicit recognition of any potential future excess earnings that could result in additional SRBR.	See Section 8 of this report for a description of the SRBR benefits.



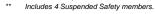
Appendix C

Membership Data

Active Members

					Total
		June 30, 2009		June 30, 2010	Change
General Members *					-
County Tier I					
Number		5,929		5,456	-7.98%
Average Age Average Service		45.9 11.2		46.4 11.9	1.09% 6.96%
Percent Male		28.42%		28.30%	-0.42%
Average Annual Pay	\$	59,336	\$	62,377	5.12%
Total Covered Payroll	\$	351,805,570	\$	340,328,334	-3.26%
Valuation Payroll	\$	350,019,214	\$	338,504,369	-3.29%
County Tier II					
Number	\$	798	\$	908	13.78%
Average Age		36.3		37.0	1.89%
Average Service		1.0		1.7	65.39%
Percent Male Average Annual Pay	\$	27.44% 50,164	\$	26.65% 56,140	-2.88% 11.91%
Total Covered Payroll	э \$	40,030,949	\$	50,975,148	27.34%
Valuation Payroll	\$	39,980,406	\$	50,941,174	27.42%
Districts Electing 1997 MOU					
Number		144		141	-2.08%
Average Age		44.8		44.9	0.20%
Average Service		11.1		11.5	3.71%
Percent Male		72.22%		71.63%	-0.82%
Average Annual Pay	\$	72,181	\$	72,658	0.66%
Total Covered Payroll	\$	10,394,126	\$	10,244,739	-1.44%
Valuation Payroll	\$	10,394,126	\$	10,244,739	-1.44%
Districts Not Electing 1997 MOU Number		295		297	0.68%
Average Age		42.2		42.1	-0.30%
Average Service		7.2		7.4	3.81%
Percent Male		58.98%		59.26%	0.47%
Average Annual Pay	\$	70,660	\$	74,086	4.85%
Total Covered Payroll	\$	20,844,690	\$	22,003,545	5.56%
Valuation Payroll	\$	20,844,690	\$	21,954,718	5.33%
Total General					
Number		7,166		6,802	-5.08%
Average Age		44.6		44.9	0.60%
Average Service		9.9		10.4	5.04%
Percent Male	¢	30.45%	•	30.33%	-0.39%
Average Annual Pay Total Covered Payroll	\$ \$	59,039	\$ \$	62,269 423,551,766	5.47% 0.11%
Valuation Payroll	ծ Տ	423,075,334 421,238,436	э \$	423,551,766 421,645,000	0.11%
Valuation Fayton	Ψ	421,230,430	φ	421,043,000	0.1076
Safety Members**					
Number		1,854		1,765	-4.80%
Average Age		38.3		38.6	0.68%
Average Service		10.9		11.3	3.50%
Percent Male	¢	81.01%	¢	82.04%	1.27%
Average Annual Pay Total Covered Payroll	\$ \$	76,499 141,829,138	\$ \$	79,891 141,008,072	4.43% -0.58%
Valuation Payroll	э \$	138,633,604	3 \$	137,735,250	-0.65%
valuation rayion	Ψ	130,033,004	Ψ	107,700,200	-0.0370
Total Active Members		0.000			E 000/
Number		9,020		8,567	-5.02%
Average Age		43.3 10.1		43.6 10.6	0.61% 4.70%
Average Service Percent Male		40.84%		40.98%	4.70% 0.34%
Average Annual Pay	\$	40.84% 62,628	\$	40.98% 65,899	0.34% 5.22%
Total Covered Payroll	э \$	564,904,472	э \$	564,559,838	-0.06%
Valuation Payroll	\$	559,872,040	\$	559,380,250	-0.09%
* Includes 3 Suspended General members.	Ŷ	200,0.2,0.0	Ŷ	500,000,200	0.0070

Includes 3 Suspended General members. **





Terminated Vested Members*

	June 30, 2009	June 30, 2010	Change
General Members - Tier I			
Number Average Age Average Service Percent Male	1,155 46.8 15.5 39.48%	1,050 48.3 12.8 40.76%	-9.09% 3.34% -17.38% 3.25%
General Members - Tier II			
Number Average Age Average Service Percent Male	9 44 1.0 44.44%	12 42.1 0.7 41.67%	33.33% -4.36% -35.76% -6.25%
Safety Members			
Number Average Age Average Service Percent Male	152 41.1 14.7 80.92%	151 42.5 10.9 80.79%	-0.66% 3.50% -25.85% -0.16%
All Members			
Number Average Age Average Service Percent Male	1,316 46.1 15.3 44.30%	1,213 47.5 12.5 45.75%	-7.83% 3.15% -18.68% 3.28%

* This includes some active members who were formerly employed in a different classification.



Terminated Members with Pending Refunds

	June 30, 2009	June 30, 2010	Change
General Members - Tier I			-
Number Average Age Percent Male	335 35.3 31.04%	448 37.8 29.91%	33.73% 7.13% -3.65%
General Members - Tier II			
Number Average Age Percent Male	96 35.5 41.67%	130 35.6 34.62%	35.42% 0.32% -16.92%
Safety Members			
Number Average Age Percent Male	28 29.3 78.57%	56 30.7 78.57%	100.00% 4.88% 0.00%
All Members			
Number Average Age Percent Male	459 35.0 36.17%	634 36.7 35.17%	38.13% 5.04% -2.74%



Retired Members

			June 30, 2009		June 30, 2010	Change
General	Members					
	Service Retirements					
	Number		3,248		3,443	6.00%
	Average Age		69.3		69.1	-0.34%
	Percent Male		37.38%		37.15%	-0.61%
	Average Monthly Benefit*	\$	2,066	\$	2,189	5.99%
	Beneficiaries					
	Number		660		671	1.67%
	Average Age		73.5		73.5	-0.01%
	Percent Male		23.18%		23.55%	1.58%
	Average Monthly Benefit*	\$	981	\$	1,045	6.51%
	Disabled					
	Number		548		548	0.00%
	Average Age		61.0		61.5	0.82%
	Percent Male		35.58%		34.67%	-2.56%
	Average Monthly Benefit*	\$	1,506	\$	1,568	4.13%
	Total General					
	Number		4,456		4,662	4.62%
	Average Age		68.9		68.8	-0.13%
	Percent Male		35.05%		34.90%	-0.44%
	Average Monthly Benefit*	\$	1,836	\$	1,952	6.29%
Safety N	lembers					
	Service Retirements					
	Number		768		814	5.99%
	Average Age		64.7		64.7	-0.12%
	Percent Male		90.49%		88.82%	-1.85%
	Average Monthly Benefit*	\$	4,696	\$	4,852	3.33%
	Beneficiaries					
	Number		264		277	4.92%
	Average Age		67.7		68.7	1.36%
	Percent Male		6.06%		5.42%	-10.65%
	Average Monthly Benefit*	\$	1,818	\$	1,864	2.54%
	Disabled					
	Number		439		446	1.59%
	Average Age		60.0		60.6	1.00%
	Percent Male		82.46%		82.06%	-0.48%
	Average Monthly Benefit*	\$	3,297	\$	3,475	5.39%
	Total Safety					
	Number		1,471		1,537	4.49%
	Average Age		63.9		64.2	0.53%
	Percent Male	•	72.94%	*	71.83%	-1.53%
	Average Monthly Benefit*	\$	3,762	\$	3,914	4.05%

*Excludes SRBR amounts.



Retired Members (continued)

Total Members	June 30, 2009	June 30, 2010	Change	
Service Retirements				
Number	4,016	4,257	6.00%	
Average Age	68.4	68.2	-0.30%	
Percent Male	47.53%	47.03%	-1.07%	
Average Monthly Benefit*	\$ 2,569	\$ 2,699	5.06%	
Beneficiaries				
Number	924	948	2.60%	
Average Age	71.9	72.1	0.31%	
Percent Male	18.29%	18.25%	-0.22%	
Average Monthly Benefit*	\$ 1,220	\$ 1,284	5.25%	
Disabled				
Number	987	994	0.71%	
Average Age	60.5	61.1	0.90%	
Percent Male	56.43%	55.94%	-0.88%	
Average Monthly Benefit*	\$ 2,303	\$ 2,424	5.26%	
Total Retirees				
Number	5,927	6,199	4.59%	
Average Age	67.7	67.7	0.03%	
Percent Male	44.46%	44.06%	-0.90%	
Average Monthly Benefit*	\$ 2,314	\$ 2,438	5.36%	

*Excludes SRBR amounts.

SRBR Approved Benefits

	June 30, 2009		June 30, 2010	Change
Total Members				
SRBR Death Benefits				
Retirees Eligible	4,982		5,222	4.82%
Total Benefits	\$ 14,946,000	\$	15,666,000	4.82%
Average Benefit	\$ 3,000	\$	3,000	0.00%
SRBR 1				
Retirees and Beneficiaries Eligible	5,499		5,663	2.98%
Total Monthly Benefits	\$ 180,843	\$ \$	186,017	2.86%
Average Monthly Benefit	\$ 32.89	\$	32.85	-0.12%
SRBR 2				
Retirees and Beneficiaries Eligible	810		754	-6.91%
Total Monthly Benefits	\$ 145,838	\$	132,481	-9.16%
Average Monthly Benefit	\$ 180.05	\$	175.70	-2.41%
SRBR 3				
Retirees and Beneficiaries Eligible	666		622	-6.61%
Total Monthly Benefits	\$ 213,597	\$	198,031	-7.29%
Average Monthly Benefit	\$ 320.72	\$	318.38	-0.73%



-	Actives	Terminated Vested	Terminated Pending Refund	Service Retirees	Disability Retirees	Beneficiaries
As of June 30, 2009	7,166	1,164	431	3,248	548	660
New Hires/Rehires	261	(1)	(8)	-	-	· -
Net Transfers (to)/from Safety	2	(1)	-	-	-	-
Terminated - Contributions Refunded	(157)	(31)	(62)		-	-
Terminated - Pending Refund	(112)	(109)	221	-	-	-
Vested Terminations	(96)	100	(4)	-	-	-
Suspended	(4)	-	-	-	-	-
Service Retirements	(243)	(57)	-	300	-	(1)
Disability Retirements	(11)	(3)	-	(1)	15	
Active Deaths	(8)	-	-	-	-	-
Deaths Or Ceased Payments	-	-	-	(103)	(16)	(47)
Beneficiaries of Retirees Who Died	-	-	-			57
Data Corrections	-	-	-	(1)	1	2
As of June 30, 2010	6,798 *	1,062	578	3,443	548	671

General Members

* Liabilities for four suspended General members were also valued in 2010 (increased from zero in 2009). Total June 30, 2010 General actives =6,802 including 4 suspended members.



-	Actives	Terminated Vested	Terminated Pending Refund	Service Retirees	Disability Retirees	Beneficiaries
As of June 30, 2009	1,850 *	152	28	768	439	264
New Hires/Rehires	55	(1)	-	-	-	-
Net Transfers (to)/from General	(2)	1	-	-	-	-
Terminated - Contributions Refunded	(31)	(1)	(5)	-	-	-
Terminated - Pending Refund	(27)	(9)	36	-	-	-
Vested Terminations	(15)	15	-	-	-	-
Suspended	1	-	-	-	-	-
Service Retirements	(66)	(6)	-	72	-	-
Disability Retirements	(4)	-	-	(12)	16	-
Active Deaths	-	-	-	-	-	-
Deaths Or Ceased Payments	-	-	-	(15)	(10)	(11)
Beneficiaries of Retirees Who Died	-	-	-	-	-	23
Data Corrections	1	-	1	1	1	1
As of June 30, 2010	1,762 *	151	60	814	446	277

Safety Members

* Liabilities for three suspended Safety members were also valued in 2010 (decreased from four in 2009). Total June 30, 2010 Safety actives =1,765 including 3 suspended members.



Summary of Active General Members by Age and Service at June 30, 2010

Number of Members by Age and Service Groups

Years of Service												
<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40&Up</u>	<u>Total</u>	
0-24	34	80	-	-	-	-	-	-	-	-	114	
25-29	53	507	53	1	-	-	-	-	-	-	614	
30-34	53	465	258	35	-	-	-	-	-	-	811	
35-39	39	367	275	136	16	-	-	-	-	-	833	
40-44	26	239	219	178	110	32	1	-	-	-	805	
45-49	16	219	191	173	162	138	63	4	-	-	966	
50-54	20	178	174	176	178	183	120	49	1	-	1,079	
55-59	8	144	135	163	151	156	103	74	12	-	946	
60-64	7	63	97	103	85	83	34	14	5	2	493	
65-69	-	17	28	24	16	15	5	5	3	1	114	
70&Up	-	2	10	5	2	4	-	2	1	1	27	
Total	256	2,281	1,440	994	720	611	326	148	22	4	6,802	

Average Annual Compensation for General Members by Age and Service at June 30, 2010

Average Compensation by Age and Service Groups

	Years of Service												
<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40&Up</u>	Total		
0-24	45,789	39,084	-	-	-	-	-	-	-	-	41,084		
25-29	53,028	52,023	49,778	52,607	-	-	-	-	-	-	51,916		
30-34	48,350	54,347	60,031	56,920	-	-	-	-	-	-	55,875		
35-39	57,333	55,488	64,760	68,757	56,246	-	-	-	-	-	60,816		
40-44	54,385	58,314	61,330	66,723	69,599	58,730	61,366	-	-	-	62,429		
45-49	54,383	56,334	60,030	65,061	66,773	67,542	59,614	57,054	-	-	62,164		
50-54	57,669	59,646	59,811	64,846	71,201	72,872	79,401	74,582	52,999	-	67,503		
55-59	76,944	61,115	62,877	60,423	68,937	74,003	72,654	91,308	75,836	-	68,560		
60-64	56,342	63,879	71,259	61,300	66,328	70,296	77,008	87,831	71,244	47,119	67,780		
65-69	-	57,828	63,852	69,135	68,486	76,669	65,759	60,819	106,883	135,928	68,118		
70&Up	-	134,804	65,771	52,387	75,099	54,951	-	67,875	80,142	61,983	68,042		
Total	53,177	55,286	61,865	64,411	68,528	70,842	72,931	83,169	78,184	73,037	62,269		



Summary of Active Safety Members by Age and Service at June 30, 2010

Number of Members by Age and Service Groups

Years of Service												
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40&Up</u>	<u>Total</u>	
0-24	16	56	-	-	-	-	-	-	-	-	72	
25-29	25	194	67	1	-	-	-	-	-	-	287	
30-34	6	129	159	50	-	-	-	-	-	-	344	
35-39	10	50	98	151	19	-	-	-	-	-	328	
40-44	-	26	41	89	51	22	-	-	-	-	229	
45-49	1	10	16	31	38	85	30	-	-	-	211	
50-54	-	5	8	18	19	50	57	14	-	-	171	
55-59	-	3	2	8	8	13	22	24	5	-	85	
60-64	-	1	1	8	2	8	5	3	-	1	29	
65-69	-	-	-	1	2	4	-	1	-	-	8	
70&Up	-	-	1	-	-	-	-	-	-	-	1	
Total	58	474	393	357	139	182	114	42	5	-	1,765	

Average Annual Compensation for Safety Members by Age and Service at June 30, 2010

Average Compensation by Age and Service Groups

	Years of Service												
<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40&Up</u>	<u>Total</u>		
0-24	51,925	63,718	-	-	-	-	-	-	-	-	61,098		
25-29	52,118	64,349	80,393	95,654	-	-	-	-	-	-	67,138		
30-34	51,652	65,701	76,918	85,226	-	-	-	-	-	-	73,478		
35-39	50,760	67,446	77,926	83,384	79,676	-	-	-	-	-	78,115		
40-44	-	67,508	78,746	84,893	82,180	105,508	-	-	-	-	83,195		
45-49	51,135	70,499	77,789	81,007	80,767	99,913	107,897	-	-	-	91,520		
50-54	-	87,819	79,821	85,195	81,339	95,604	101,717	110,902	-	-	95,248		
55-59	-	81,521	64,140	78,189	81,911	97,934	104,879	116,738	115,561	-	101,337		
60-64	-	49,360	61,720	64,689	71,348	89,126	100,306	111,842	-	153,748	85,348		
65-69	-	-	-	58,054	75,915	72,285	-	100,157	-	-	74,897		
70&Up	-	-	104,658	-	-	-	-	-	-	-	104,658		
Total	51,765	65,597	78,014	83,331	81,075	98,183	103,892	114,048	115,561	153,748	79,891		



Appendix D

Member Contribution Rates

Member contribution rates are calculated as a percentage of the member's pay, on the basis of the member's age at entry into System, the classification of the member, the Plan's economic assumptions and the member's life expectancy at the retirement age specified for this purpose in the County Employees Retirement Law of 1937 (1937 Act).

The recommended contribution rates for General and Safety members are presented on the following pages.



General Tier I Member Contribution Rates

Member Rates as a Percentage of Salary Contribution Rates (Fiscal Year 2011-2012) 1/100th @ 55

	Integrated		Non-Integrated
	First \$350 of	Excess of \$350	All
Entry Age	Monthly Comp.	Monthly Comp.	Compensation
18	4.23%	6.34%	6.34%
19	4.31%	6.46%	6.46%
20	4.39%	6.58%	6.58%
21	4.47%	6.70%	6.70%
22	4.55%	6.83%	6.83%
23	4.63%	6.95%	6.95%
24	4.72%	7.08%	7.08%
25	4.81%	7.21%	7.21%
26	4.90%	7.35%	7.35%
27	4.99%	7.48%	7.48%
28	5.08%	7.62%	7.62%
29	5.17%	7.76%	7.76%
30	5.27%	7.91%	7.91%
31	5.37%	8.06%	8.06%
32	5.47%	8.21%	8.21%
33	5.57%	8.36%	8.36%
34	5.68%	8.52%	8.52%
35	5.79%	8.68%	8.68%
36	5.90%	8.85%	8.85%
37	6.01%	9.02%	9.02%
38	6.13%	9.19%	9.19%
39	6.25%	9.38%	9.38%
40	6.37%	9.56%	9.56%
41	6.50%	9.75%	9.75%
42	6.62%	9.93%	9.93%
43	6.74%	10.11%	10.11%
44	6.85%	10.28%	10.28%
45	6.97%	10.45%	10.45%
46	7.07%	10.61%	10.61%
47	7.17%	10.75%	10.75%
48	7.26%	10.89%	10.89%
49	7.34%	11.01%	11.01%
50	7.41%	11.12%	11.12%
51	7.47%	11.21%	11.21%
52	7.50%	11.25%	11.25%
53	7.50%	11.25%	11.25%
54	7.50%	11.25%	11.25%

This work product was prepared solely for the KCERA. It may not be appropriate to use for other purposes. D-2

General Tier II Member Contribution Rates

Member Rates as a Percentage of Salary Contribution Rates (Fiscal Year 2011-2012) 1/120th @ 60

	Integrated		Non-Integrated
	First \$350 of	Excess of \$350	All
Entry Age	Monthly Comp.	Monthly Comp.	Compensation
18	3.01%	4.51%	4.51%
19	3.06%	4.59%	4.59%
20	3.12%	4.68%	4.68%
21	3.18%	4.77%	4.77%
22	3.24%	4.86%	4.86%
23	3.30%	4.95%	4.95%
24	3.36%	5.04%	5.04%
25	3.43%	5.14%	5.14%
26	3.49%	5.23%	5.23%
27	3.55%	5.33%	5.33%
28	3.62%	5.43%	5.43%
29	3.69%	5.53%	5.53%
30	3.75%	5.63%	5.63%
31	3.83%	5.74%	5.74%
32	3.90%	5.85%	5.85%
33	3.97%	5.95%	5.95%
34	4.04%	6.06%	6.06%
35	4.12%	6.18%	6.18%
36	4.19%	6.29%	6.29%
37	4.27%	6.41%	6.41%
38	4.35%	6.53%	6.53%
39	4.43%	6.65%	6.65%
40	4.52%	6.78%	6.78%
41	4.61%	6.91%	6.91%
42	4.69%	7.04%	7.04%
43	4.79%	7.18%	7.18%
44	4.88%	7.32%	7.32%
45	4.98%	7.47%	7.47%
46	5.07%	7.61%	7.61%
47	5.17%	7.75%	7.75%
48	5.27%	7.90%	7.90%
49	5.35%	8.03%	8.03%
50	5.44%	8.16%	8.16%
51	5.53%	8.29%	8.29%
52	5.60%	8.40%	8.40%
53	5.67%	8.50%	8.50%
54	5.73%	8.60%	8.60%

Member Contribution Rates – Excluding "Safety 3" Members

	Integrated		
	First \$350 of	Excess of \$350	
Entry Age	Monthly Comp.	Monthly Comp.	
18	7.42%	11.14%	
19	7.55%	11.32%	
20	7.68%	11.51%	
21	7.80%	11.71%	
22	7.93%	11.90%	
23	8.07%	12.10%	
24	8.20%	12.30%	
25	8.34%	12.51%	
26	8.48%	12.72%	
27	8.62%	12.93%	
28	8.77%	13.15%	
29	8.91%	13.37%	
30	9.07%	13.60%	
31	9.22%	13.83%	
32	9.38%	14.07%	
33	9.54%	14.31%	
34	9.71%	14.57%	
35	9.88%	14.83%	
36	10.06%	15.10%	
37	10.25%	15.38%	
38	10.44%	15.66%	
39	10.62%	15.93%	
40	10.79%	16.19%	
41	10.95%	16.43%	
42	11.10%	16.66%	
43	11.24%	16.86%	
44	11.36%	17.04%	
45	11.48%	17.22%	
46	11.57%	17.36%	
47	11.62%	17.42%	
48	11.62%	17.42%	
49 and Older	11.62%	17.42%	

Member Rates as a Percentage of Pensionable Earnings Contribution Rates (Fiscal Year 2011-2012)

Note: Beginning at various dates throughout 2007, certain Safety bargaining units converted to a new schedule of contribution rates, referred to as "Safety 3" contribution rates. For employees falling under this category and hired after the appropriate date (which varies by bargaining unit), the contribution rate will be a flat percentage of pay regardless of entry age.

Member Contribution Rates - "Safety 3" Members

Member Rates as a Percentage of Pensionable Earnings Contribution Rates (Fiscal Year 2011-2012)

	Integrated	
Entry Age	First \$350 of Monthly Comp.	Excess of \$350 Monthly Comp.
Every Entry Age	8.20%	12.30%

Note: Beginning at various dates throughout 2007, certain Safety bargaining units converted to a new schedule of contribution rates, referred to as "Safety 3" contribution rates. For employees falling under this category and hired after the appropriate date (which varies by bargaining unit), the contribution rate will be a flat percentage of pay regardless of entry age.



Appendix E

Glossary

The following definitions include excerpts from a list adopted by the major actuarial organizations in the United States. In some cases, the definitions have been modified for specific applicability to KCERA and include terms used exclusively by KCERA. Defined terms are capitalized throughout this Appendix.

Accrued Benefit	The amount of an individual's benefit (whether or not vested) as of a specific date, determined in accordance with the terms of a pension plan and based on compensation and service to that date.
Actuarial Accrued Liability	That portion, as determined by a particular Actuarial Cost Method, of the Actuarial Present Value of pension plan benefits and expenses which is not provided for by future Normal Costs.
Actuarial Assumptions	Assumptions as to the occurrence of future events affecting pension costs, such as: mortality, withdrawal, disability, and retirement; changes in compensation; rates of investment earnings and asset appreciation or depreciation; procedures used to determine the Actuarial Value of Assets; and other relevant items.
Actuarial Gain (Loss)	A measure of the difference between actual experience and that expected based on a set of Actuarial Assumptions during the period between two Actuarial Valuation dates, as determined in accordance with a particular Actuarial Cost Method.
Actuarial Present Value	The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions.
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.
Actuarial Value of Assets	Market Value of Assets, adjusted to defer unexpected assets gains and losses over 10 six-month periods.
Actuarially Equivalent	Of equal Actuarial Present Value, determined as of a given date with each value based on the same set of Actuarial Assumptions.
Amortization Payment	That portion of the pension plan contribution which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.
Approved SRBR Benefits	These are the SRBR benefits that have already been approved by the Retirement Board. They include all Tier I, Tier II and Death Benefits, as well as the Tier III benefits approved through the valuation date.

Basic Benefits	All formula benefits provided under the Regular portion of KCERA. These include service retirement benefits, survivor continuance, disability benefits, and refunds of member contributions. Basic Benefits do not include cost-of-living adjustments.
COLA Benefits	These are the cost-of-living adjustments provided under the Regular portion of KCERA. They include cost-of-living increases paid on service retirement benefits, disability benefits and survivor benefits. The funding of the permanent additional 0.5% COLA benefit that was granted as part of the Ventura court settlement is included in the regular benefits, for a total COLA benefit of 2.5%. For funding purposes and to determine the COLA Contributions Reserve, the COLA benefits are split between the "2.0%" COLA benefits and the "0.50%" COLA benefits.
Contingency Reserve	The Contingency Reserve is used to satisfy the California Government Code requirement for Section 31616 requirement for KCERA to reserve at least 1% of assets, up to a maximum of 3% of assets. KCERA has adopted a goal to reserve 3.0% of the assets against earning deficiencies, investment losses, and other contingencies, if available.
Cost-of-Living Reserve	The accumulation of employer contributions for future annual cost-of- living increases for retirees and continuance beneficiaries. Additions include contributions from employers and related earnings and deductions include monthly cost-of-living benefit payments.
COLA Contribution Reserve	This CCR refers to the amount of excess investment earnings that have been set aside to reduce future employer COLA contributions as provided under Section 31617 of Article 5.5 under the CERL. If no earnings are allocated under 31617 or they have already been allocated as a credit for future employer COLA contributions, the CCR value is zero.
Employers' Advance Reserve	The accumulation of employer contributions for future retirement benefit payments. Additions include contributions from employers and related earnings and deductions include transfers to the Retired Members' Reserve.
Entry Age Actuarial Cost Method	A method under which the Actuarial Present Value of the Projected Benefits of each individual included in an Actuarial Valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit ages. The portion of this Actuarial Present Value allocated to a valuation year is called the Normal Cost. The portion of this Actuarial Present Value not provided for at a valuation date by the Actuarial Present Value of future Normal Costs is called the Actuarial Accrued Liability.
Funded Ratio	A measurement of the funded status of the system. The Funded Ratio is calculated by dividing the Valuation Assets by the Actuarial Accrued Liability. For example, a Funded Ratio of 90% indicates assets are 10% less than liabilities.

Funding Excess	The excess, if any, of the Actuarial Value of Assets over the Actuarial Accrued Liability.
Future SRBR Benefits	These are the SRBR benefits expected to be approved in future years in order to maintain the 80% purchasing power goal.
Market Value of Assets	The value of cash, investments and other property belonging to a pension plan.
Members' Deposit Reserve	The accumulation of member contributions. Additions include member contributions and related earnings and deductions include transfers to the Retired Members' Reserve and refunds to members.
Non-Valuation Reserves	Those funds not available to fund the Regular Benefits. These are the Contingency Reserve, the Unallocated SRBR Reserve and the COLA Contribution Reserve.
Normal Cost	That portion of the Actuarial Present Value of pension plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method.
Projected Benefits	Those pension plan benefit amounts which are expected to be paid at various future times under a particular set of Actuarial Assumptions, taking into account such items as the effect of advancement in age and past and anticipated future compensation and service credits.
Regular Benefits	The benefits provided under the non-SRBR section of KCERA. These will include both Basic Benefits and COLA Benefits, including the supplemental 0.5% COLA provisions.
Supplemental Retiree Benefit Reserve (SRBR)	Supplemental benefit payments that are additional payments to retired members and to restore purchasing power at a specified percentage level, as described in California Government Code Section 31618, under Article 5.5 of CERL. These are non-vested benefits to both current and future retired members and their beneficiaries.
Unfunded Actuarial Accrued Liability	The excess, if any, of the Actuarial Accrued Liability over the Actuarial Value of Assets.
Valuation Date	The date upon which the Normal Cost, Actuarial Accrued Liability, and Actuarial Value of Assets are determined. Generally, the Valuation Date will coincide with the ending of a Plan Year.
Valuation Assets	The actuarial value of the Valuation Reserves. This is calculated by subtracting the Non-Valuation reserves from the Actuarial Value of Assets.
Valuation Reserves	All reserves excluding the Non-Valuation Reserves.