

Kern County Employees' Retirement Association

Actuarial Valuation as of December 31, 2002



June 2003

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1 Highlights

This report presents the results of the December 31, 2002 actuarial valuation of the Kern County Employees' Retirement Association (KCERA). Results from the prior valuation are shown for comparison. All dollar amounts are in millions.

December 31, 2002 December 31, 2001

Recommended Contribution	Rates (as a percentage o	of pay)
General – County	14.56%	13.28%
General – Districts Electing MOU	15.88%	17.82%
General – Districts Not Electing MOU	14.26%	13.68%
Safety	31.83%	27.66%
Total Plan	18.74%	16.96%
Funded Status - Regular Ben	efits	
Actuarial Accrued Liability	\$1,899.0	\$1,612.0
Actuarial Value of Assets	\$1,570.3	\$1,508.3
UAAL	\$328.8	\$103.7
Funded Percentage	83%	94%
Funded Status - SRBR		
Actuarial Accrued Liability	\$60.0	\$58.0
Actuarial Value of Assets	\$91.6	\$163.6
UAAL	(\$31.6)	(\$105.6)
Funded Percentage	153%	282%
Key Assumptions		
Interest Rate	8.0%	8.0%
Inflation	4.0%	4.0%

2 Board Summary

This actuarial valuation report has been prepared primarily to review KCERA's funded status and determine the contributions required of the Plan Members and Participating Employers. This is done annually by taking a snapshot of the Plan on the basis of the plan provisions, plan membership, and investments as of the end of each plan year.

A. Major Events

The major events affecting the contribution rates and funded position of the Plan primarily fall into four categories:

- Investments,
- Demographics,
- Assumptions and Methodology, and
- Benefits.

Investments

Empirical evidence suggests that over 90% of the return achieved by a portfolio is due to the allocation of assets within that portfolio. As of December 31, 2002, KCERA's target asset allocation was:

Domestic Equities	40%
International Equities	20%
Fixed Income	35%
Real Estate	5%
Cash & Equivalents	0%

During the past year, Plan investments suffered a loss of approximately 8.37% (\$126.5 million) on a market value basis. The impact of the investment loss on the employer contribution rates and on the funded position of Regular Benefits was reduced by the use of an asset smoothing technique.

Due to the asset smoothing technique, the return on valuation assets on an actuarial basis was a loss of approximately 0.8%. This was significantly less than the Plan's assumed rate of 8.0%. This resulted in an investment loss on an actuarial basis of approximately \$133.3 million net of expenses. Detailed information regarding plan investments is shown in the Asset Information subsection in the Technical Information section of the report.

Demographics

The active population remained relatively steady during 2002. The total number of active plan members remained at 8,055 and the total covered payroll increased by 3.3% to \$344.9 million.

Total payments to retirees and beneficiaries increased by approximately 13% during 2002. The number of retired members and beneficiaries receiving pension checks increased by 3.3% from 4,372 to 4,516. The average monthly benefit check increased by 9.9% to \$1,457.

Assumptions and Methodology

Every three years, the actuary reviews plan experience and recommends changes to valuation assumptions to better align with future expectations. This year, we reviewed plan experience for the period from January 1, 2000 through December 31, 2002. As a result of our analysis, we have recommended changes to most of the assumptions used in valuing the plan. The assumptions for which we recommend changes include:

Economic Assumptions

- o Inflation: Retain the current assumption of 4.00%.
- Investment Return: Retain the current assumption of 8.00%.
- Salary Increase: Revise the rates from separate rates for Safety and General Members based on age to separate rates for Safety and General Members based on the employee's service with KCERA.

Demographic Assumptions

- Withdrawal: Adjust the rates of withdrawal for both General and Safety Members to reflect increased terminations at later ages. Overall, the new withdrawal rates will be slightly lower for Safety Members and slightly higher for General Members.
- Deferred Vested. Increase the deferred vested rates for General and Safety Members to reflect plan experience.
- Disability: Adjustments in the incidence of disabilities at various ages to reflect plan experience. Adjustments in the distribution between service and non-service connected disability rates. For Safety Members, we assume no future non-service connected disabilities. For General Members, we assume that 60% of future disabilities will be service-connected.

- Retirement: A slight change in the retirement rates to better match future expectations.
- Pre-retirement mortality: A decrease in the rate of service connected deaths to 0.02% per year for Safety Members and to 0% for General Members who are male. The rate of service-connected deaths for General Members who are female will remain at 0%.
- Post-retirement mortality: For valuation purposes, change to a newer mortality table (RP-2000) reflecting the impact of the type of work performed by an individual during that person's career on post-retirement life expectancy.

Methodology

Over the past couple of years, KCERA has reviewed its funding methodology to better align with the Retirement Board's funding objectives. Several changes in the funding methodology were adopted by the Retirement Board during 2002 to take effect with this valuation. Some of the more significant changes include:

- Funding Method. The funding method was changed from Projected Unit Credit to Entry Age.
- Risk Sharing. The calculation of Normal Cost was refined to better share risks between Districts and between the County and Districts.
- Amortization Period. The amortization period for significant benefit changes was increased to 30 years. The amortization period for new Unfunded Actuarial Accrued Liability will not drop below 12 years.

Benefits

As part of a court settlement, the County has increased the maximum cost-of-living increase that can be provided from Regular Plan reserves from the current level of 2% per year, up to 2.5% per year. This benefit increase will be partly funded using money set aside for this purpose within the Supplemental Retiree Benefit Reserve by the Retirement Board.

Future Issues

During the early part of 2003, the County took advantage of the low interest rate environment and issued Pension Obligation Bonds (POBs). The proceeds from these bonds (approximately \$285 million) will pay off a significant portion of the County's Unfunded Actuarial Accrued Liability.

To help the County issue POBs for the length of period that it considered optimal, KCERA changed the amortization period for outstanding Unfunded Actuarial Accrued Liability in this valuation to 25 years. In addition, KCERA allowed the amortization

payments related to the change in funding method described above to begin with the December 31, 2003 valuation.

The POB proceeds do not appear in most of our valuation results because they were not Plan assets as of December 31, 2002. But, since the POB proceeds were contributed to KCERA prior to the date that the new contribution rates are scheduled to take effect (July 2003), we have included contribution rates that take the POB proceeds into account.

B. Funded Position

For purposes of this analysis, we will be distinguishing between several types of benefits provided to KCERA members under the plan provisions adopted by the County and those provided under Article 5.5. In order to limit the repetition of benefit descriptions and sources of payments, we will refer to these benefits by the following names:

- SRBR Benefits These are the Supplemental Retiree Benefit Reserve benefits provided under Article 5.5. These will include both Approved Benefits and Future Benefits.
 - Approved 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 December 31, 2002.
 - Future Benefits These are the SRBR benefits expected to be approved in future years in order to maintain the 80% purchasing power goal.
- Regular Benefits The benefits provided under the non-SRBR section of KCERA. These will include both Basic Benefits and COLA Benefits.
 - 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.

Funded Position - Regular Benefits

The primary target liability for KCERA is the Actuarial Accrued Liability for Regular Plan Benefits. The **Actuarial Accrued Liability (AAL)** is the portion of the Present Value of Benefits attributed to the past. In other words,

- If current plan benefits had always been in place, and
- If the current assumptions had always been in place, and
- If the plan had always been funded under the current funding method, and



If plan experience had always matched the assumptions, then

The Actuarial Value of Assets would be equal to the Actuarial Accrued Liability. It is the value often used as a funding target.

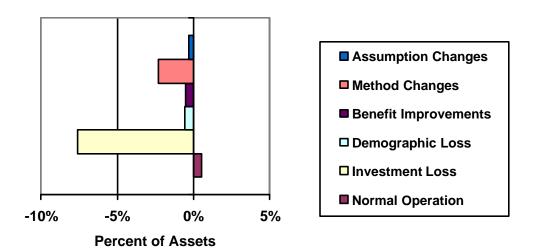
The Plan's funded percentage for Regular Benefits is 82.7%. It is calculated by dividing the Actuarial Value of Assets (\$1,570.3 million) by the Actuarial Accrued Liability (\$1,899.0 million).

Impact of Major Events

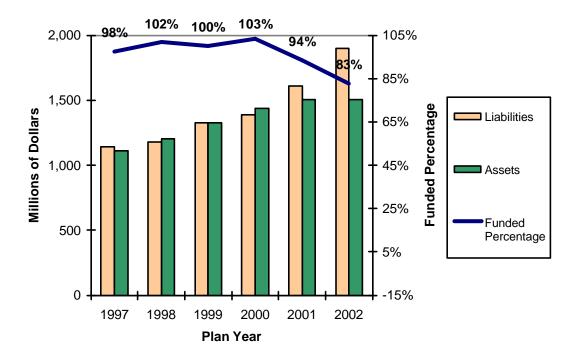
The funded percentage decreased from 93.6% in 2001 to 82.7% in 2002. This decrease can be attributed to the following events.

- Normal operation of plan increased the funded percentage by 0.5%.
- Investment losses decreased the funded percentage by 7.6%.
- Demographic losses decreased the funded percentage by 0.6%.
- Improvement in benefits decreased the funded percentage by 0.5%.
- Changes in funding methodology decreased the funded percentage by 2.3%.
- Changes in actuarial assumptions decreased the funded percentage by 0.3%.

Impact of Major Events on Funded Percentage



History of Funded Position



History of Funded Position

Dollar amounts in Millions	Actuarial Accrued Liability	Actuarial Value of Assets	Funded Percentage
2002	\$1,899.0	\$1,570.3	82.7%
2001	\$1,612.0	\$1,508.3	93.6%
2000	\$1,389.0	\$1,434.9	103.3%
1999	\$1,324.7	\$1,325.9	100.1%
1998	\$1,179.8	\$1,203.7	102.0%
1997	\$1,140.0	\$1,113.9	97.7%

Background information on the development of these funded percentages is included in the Technical Information section later in this report.



Impact of Future Changes

In order to assist the County understand the impact of its issuance of Pension Obligation Bonds (POB) on the funded percentages, we calculated this year's funded percentage under an alternative scenario which included the POB proceeds.

	Actuarial Accrued Liability	Actuarial Value of Assets	Funded Percentage
Current Results	\$1,899.0	\$1,570.3	82.7%
With POB Proceeds	\$1,899.0	\$1,855.4	97.7%

Funded Position - SRBR

When the Ventura Settlement was put into place, it was hoped that the entire cost of the additional benefits provided under that agreement would be paid from Undistributed Earnings. Undistributed Earnings are the amount that remains 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.

By their very nature, Excess 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. Excess Earnings become the primary source of funding for these benefits. For this reason, the long-term funding target for Settlement Benefits is the Present Value of Benefits.

The **Present Value of Benefits (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,

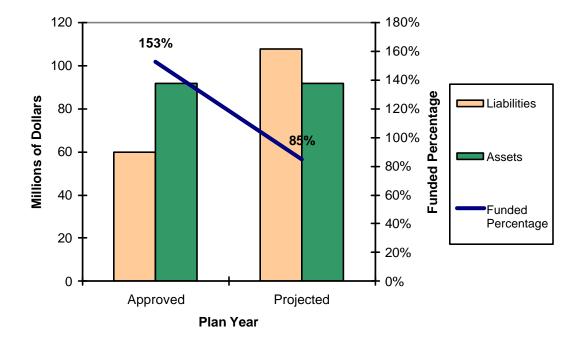
- If Plan Assets are equal to the Present Value of Benefits, and
- If current plan benefits remain in place, and
- If there are no new Plan Members, and
- If plan experience in all future years matches the assumptions, then

There will be enough money to pay for all promised SRBR benefits for all Plan Members and their beneficiaries for the rest of their lives without another dollar being contributed to the Retirement System by Plan Members, the County, or other Participating Employers.

The Plan's funded percentage for Approved SRBR Benefits is 152.7%. It is calculated by dividing the Actuarial Value of Assets (\$91.6 million) by the Present Value of Approved SRBR Benefits (\$60.0 million).

The Plan's funded percentage for Projected SRBR Benefits is 85.0%. It is calculated by dividing the Actuarial Value of Assets (\$91.6 million) by the Present Value of Projected SRBR Benefits (\$107.8 million). Projected Benefits are a combination of the Approved SRBR Benefits and the Future SRBR Benefits.

Comparison of Funded Position



The funded percentage Approved SRBR Benefits decreased from 282.1% in 2001 to 152.7% in 2002. This decrease is primarily due to the allocation of \$64.7 million to a separate account within the SRBR dedicated to help fund the increase in the annual cost of living adjustment from the prior level of 2.0% per year to the revised level of 2.5% per year.

C. Contribution Rates

Each year, recommended contribution rates are determined separately for members and employers. 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). Due to changes in the Plan's economic assumptions this year, we are recommending a corresponding change to the member contribution rates for the coming year. A list of the member rates by age at entry for each of the classifications is included in the Technical Information section at the back of this report.

Employer contributions are determined as the sum of two elements: the Normal Cost and an Amortization of the Unfunded Actuarial Accrued Liability.

The **Normal Cost (NC)** is the portion of the Present Value of Benefits attributed to the current year. In other words,

- If current plan benefits had always been in place, and
- If the current assumptions had always been in place, and
- If plan experience had always matched the assumptions, then

A contribution equal to the Normal Cost would be sufficient to keep the plan right on target, at 100% funding.

In the normal course of operating a retirement plan, there are a number of reasons why the plan may be someplace other than at 100% funding.

- Plan Amendments These are changes in the benefits that are to be paid to plan members, such as the improvement to the 2.5% COLA.
- Assumption Changes Periodically, the plan actuaries and trustees adjust their expectation for the future. This has occurred this year when they changed the demographic assumptions.
- Methodology Changes Every few years, the actuary recommends a
 refinement in its actuarial methodology. This occurred this year with a change
 in the method used to allocate plan liabilities and a refinement in the
 smoothing method used to determine the actuarial value of assets.
- Gain or Loss Each year actual plan experience is different than the
 experience expected under the plan assumptions. When actual experience
 reduces the Unfunded Actuarial Accrued Liability, it is called a gain. When
 plan experience increases the Unfunded Actuarial Accrued Liability, it is called
 a loss.

The amount that the funding is off target is added to the NC (when behind target) or reduced from the NC (when ahead of target) over a series of years.

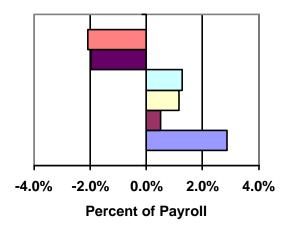
Changes in the UAAL due to the change in funding methodology are amortized as a level percentage of payroll over a 25-year period beginning with the December 31, 2003 valuation. All other changes in UAAL are amortized as a level percentage of payroll over a 25-year period beginning with this valuation.

Impact of Major Events

The average Employer Contribution rate increased from 16.96% of pay in 2001 to 18.74% of pay in 2002. This increase can be roughly attributed to the following events.

- Investment losses raised the contributions by 2.9% of pay.
- Demographic losses raised the contribution rate by 0.5% of pay.
- Benefit improvements increased the contribution rate by 1.2% of pay.
- Changes in funding methodology increased the contribution rate by 1.3% of pay.
- Changes in actuarial assumptions decreased the contribution rate by 2.0% of pay.
- Changes in the amortization period connected with the expected issuance of Pension Obligation Bonds decreased the contribution rate by 2.1% of pay.

Impact of Major Events on Employer Contribution Rate

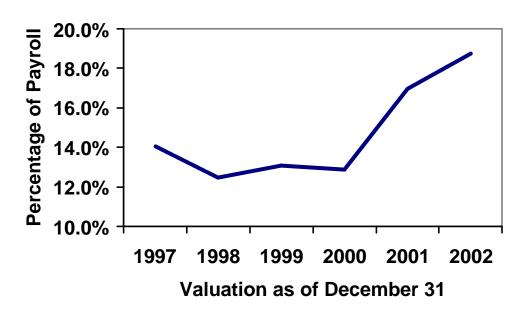




History of Contribution Rates

Between 1997 and 2000, the contribution rate remained relatively steady thanks to the strong investment performance. The increase in 2001 is primarily due to a combination of salary increases and an improvement in the benefits available to Safety members. The average contribution rate continued to increase in 2002 primarily due to investment losses.

Average Contribution Rates



Background information on the development of these contribution rates is included in the Technical Information section later in this report.

History of Contribution Rates

Valuation as of 12/31	General – County	General – District Electing MOU	General – District Not Electing MOU	Safety	All Members
2002	14.56%	15.88%	14.26%	31.83%	18.74%
2001	13.28%	17.82%	13.68%	27.66%	16.96%
2000	12.29%	15.04%	9.51%	14.66%	12.89%
1999	11.60%	13.92%	9.90%	17.05%	13.09%
1998	11.62%	13.50%	9.39%	14.69%	12.45%
1997	13.02%	15.35%	10.78%	16.93%	14.06%

The County's required contribution for 2002 shown above will be reduced by \$77,514 due to maximum benefit limitations imposed by Section 415 of the Internal Revenue Code.

Impact of Future Changes

In order to assist the County understand the impact of its issuance of Pension Obligation Bonds (POB) on contribution rates, we calculated this year's contribution rates under an alternative scenario which included the POB proceeds.

Valuation as of 12/31	General – County	General – General – District Not Electing MOU MOU		Safety	All Members
Without POB Proceeds	14.56%	15.88%	14.26%	31.83%	18.74%
With POB Proceeds	10.96%	15.88%	14.26%	21.03%	13.60%

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Section 3

Accounting Information

Accounting standards for governmental entities are set by the Governmental Accounting Standards Board (GASB). Statement Number 25 (GAS25) describes the disclosure requirements for the financial statements of the Kern County Employees' Retirement Association (KCERA). These include a Schedule of Funding Progress and a Schedule of Employer Contributions.

The disclosure requirements for the County's financial statements are described in Statement Number 27 (GAS27). These include the development of the Annual Pension Cost and the Net Pension Obligation.

A. Schedule of Funding Progress

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded AAL (UAAL) (b - a)	Funded Ratio (a/b)	Covered Payroll (c)	as a Percentage of Covered Payroll ((b - a) / (c))
12/31/95	\$ 920,750	\$ 952,880	\$ 32,130	96.6%	\$ 270,454	11.9%
12/31/96	1,003,076	1,029,574	26,498	97.4%	273,351	9.7%
12/31/97	1,113,914	1,140,019	26,105	97.7%	266,640	9.8%
12/31/98	1,203,670	1,179,753	(23,917)	102.0%	282,251	-8.5%
12/31/99	1,325,928	1,324,662	(1,266)	100.1%	297,738	-0.4%
12/31/00	1,434,873	1,388,984	(45,889)	103.3%	283,283	-16.2%
12/31/01	1,508,291	1,611,960	103,669	93.6%	333,791	31.1%
12/31/02	1,570,278	1,899,031	328,753	82.7%	344,871	95.3%

Information in the above schedule for Plan Years ended December 31, 1999 and before is based on information prepared by Watson Wyatt Worldwide. All dollar amounts are in thousands.

B. Schedule of Employer Contributions

Fiscal Year Ended June 30	Annual Required Contribution (ARC)	Percentage Contributed
2002	\$ 53,169,166	100%
2001	41,067,487	100%
2000	37,575,583	100%
1999	40,159,103	100%
1998	35,420,517	100%
1997	27,902,854	100%

The table below summarized certain information used in the calculation of the schedules in subsections A and B:

Valuation date Dec	cember 31, 2002
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Actuarial cost method Entry Age

Amortization method Level percent closed

Remaining amortization period 25 years

Asset valuation method 5-year smoothed market

Actuarial assumptions

Investment rate of return*	8.0%
Projected salary increases*	4.75 – 8.0%
* Includes inflation at	4.0%
Cost of living adjustments	2.5%

Information in the above schedule for the Fiscal Years ended June 30, 2001 and before are based on information appearing in the June 30, 2001 Comprehensive Annual Financial Report prepared by KCERA.



C. Development of Net Pension Obligation

	Year En June 30,			Ended 30, 2002
1. Beginning of year NPO	\$	0	\$	0
2. Employer Contributions	(41,06	7,487)	(53	,169,166)
3. Pension Cost	41,06	7,487	<u>53,</u>	169,166
4. End of year NPO		0		0

D. Schedule of Employer Cost

Fiscal Year Ended June 30	Annual Pension Cost (APC)	Percentage of APC Contributed	Pen	et sion jation
2002	\$ 53,169,166	100%	\$	0
2001	41,067,487	100%	\$	0
2000	37,575,583	100%		0
1999	40,159,103	100%		0
1998	35,420,517	100%		0
1997	27,902,854	100%		0

Information in the above schedule for the Fiscal Years ended June 30, 2000 and before is based on information prepared by Watson Wyatt Worldwide.

The Annual Pension Costs for the years beginning July 1, 2000 and 2001 are developed as follows:

	Year Beginning July 1, 2000	Year Beginning July 1, 2001	
1. Annual Required Contribution	\$ 41,067,487	\$ 53,169,166	
2. Interest on NPO	0	0	
3. Amortization of NPO	0	0	
4. Pension Cost	41,067,487	53,169,166	

Section 4

Technical Information

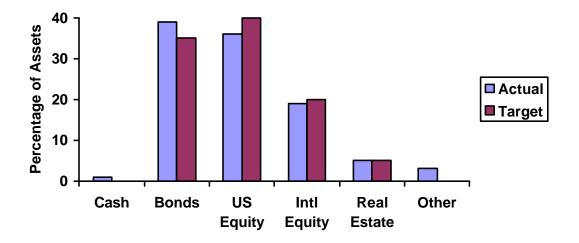
A. Asset Information

Net Plan Assets at Market Value as of December 31, 2002

Amounts may not add exactly due to rounding.

	Actual		Target	t
	<i>\$000's</i>	%	\$000's	%
Cash and Cash Equivalents	\$ 9,304	1%	\$ 0	0%
Fixed Income	535,155	39%	484,709	35%
Domestic Equity	478,421	36%	553,953	40%
International Equity	256,496	19%	276,976	20%
Real Estate	66,667	5%	69,244	5%
Other Assets	38,839	3	0	0%
Net Assets	\$1,384,882	100%	\$1,384,882	100%

Asset Allocation



Development of Actuarial Value of Assets

Development of Unexpected Gain (Loss) for the Six-Month Periods Ended in 2002

For the Six-Month Period Ended	June 30, 2002	December 31, 2002
1. Market Value of Assets - Beginning of Period	\$ 1,511,318,766	\$ 1,436,172,964
2. Contributions	26,550,714	60,952,148
3. Benefit Payments	(41,384,998)	(46,026,227)
4. Assumed Interest on items (1), (2) and (3)	<u>60,156,065</u>	57,745,437
5. Expected Value of Assets at End of Year	1,556,640,548	1,508,844,323
6. Actual Market Value of Assets at End of Year	<u>1,436,172,964</u>	1,384,882,245
7. Gain (Loss) for Plan Year = (6) - (5)	(120,467,583)	(123,962,078)
Amounts may not add due to rounding		
Development of Unrecognized Gain (Loss)		

Six-Month Period Ended	Unexpected Gain (Loss)	Percent Not Yet Phased In	Gain (Loss) Excluded
12/31/02	\$ (123,962,078)	90%	\$ (111,565,870)
6/30/02	(120,467,583)	80%	(96,374,067)
12/31/01	(79,583,764)	70%	(55,708,635)
6/30/01	(111,199,696)	60%	(66,719,818)
12/31/00	N/A	50%	N/A
6/30/00	N/A	40%	N/A
12/31/99	N/A	30%	N/A
6/30/99	N/A	20%	N/A
12/31/98	N/A	10%	N/A
Total			\$ (330,368,389)

Development of Actuarial Value of Assets

1. Market Value of Assets as December 31	\$ 1,384,882,245
2. Unrecognized Gain (Loss)	(330,368,389)
3. Preliminary Actuarial Value: (1) - (2)	1,715,250,634
4. Corridor Around Market Value	
(a) Minimum = 80% of Market	1,107,905,796
(b) Maximum = 120% of Market	1,661,858,694
5. Gross Actuarial Value of Assets	1,661,858,694

Allocation of Actuarial Value of Assets for Valuation Purposes

Adjusted for Negative Contingency Reserve

	December 31, 2002	December 31, 2002	December 31, 2001
Basic			
General Members	683,398,798	696,490,054	679,757,132
District Members	30,717,017	31,305,435	30,697,389
Safety Members	471,957,524	480,998,389	473,685,489
Subtotal	1,186,073,338	1,208,793,877	1,184,140,010
Cost-of-Living			
General Members	178,794,592	182,219,599	180,765,521
District Members	7,670,898	7,817,843	7,268,353
Safety Members	134,529,420	<u>137,106,479</u>	136,117,600
Subtotal	320,994,911	327,143,922	324,151,474
Total			
Valuation Reserves	1,507,068,249	1,535,937,799	1,508,291,483
SRBR			
Special 1/2% Allocation	63,209,408	64,420,254	163,612,428
Remaining SRBR	91,581,037	93,335,372	0
Subtotal	154,790,445	157,755,626	163,612,428
Contingency Reserve	0	(31,834,731)	0
Total Actuarial			
Value of Assets	1,661,858,694	1,661,858,694	1,671,903,911

Amounts may not add exactly due to rounding.

Reconciliation of Assets for the Year Ended December 31, 2002

	Market Value	Actuarial Value
Beginning of Year	\$1,511,318,766	\$1,508,291,483
Ocatella Cana - Familia and	74 707 500	74 707 500
Contributions – Employers	74,797,529	74,797,529
Contributions – Members	12,705,333	12,705,333
Gross Investment Income	(120,566,292)	(9,959,464)
Investment Expenses	(3,726,551)	n/a
Benefits paid to participants	(87,411,224)	(76,531,317)
Administrative Expenses	(2,235,315)	(2,235,315)
End of Year	\$1,384,882,245	\$1,507,068,249
Estimated Return (net of expenses)	-8.37%	-0.81%

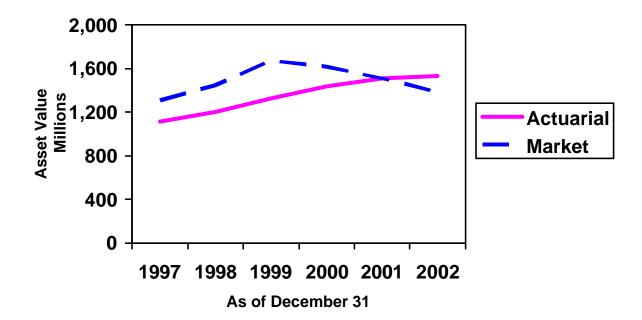
Amounts may not add exactly due to rounding.

Historical Asset Values

Asset Values as of December 31

	Market	Actuarial
Year	Value	Value
2002	\$1,384,882,245	\$ 1,535,937,799
2001	\$1,511,318,766	\$ 1,508,291,483
2000	\$1,618,685,190	\$ 1,434,872,718
1999	\$1,673,422,215	\$ 1,325,928,243
1998	\$1,449,358,816	\$ 1,203,670,449
1997	\$1,306,925,405	\$ 1,113,914,418

Comparison of Asset Values



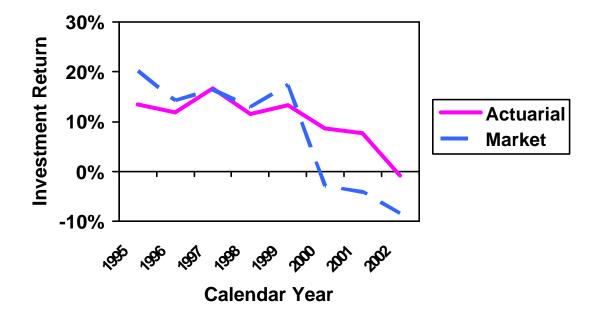
The Market Value of Assets includes all plan assets including those allocated to the Supplemental Retiree Benefit Reserve and the Contingency Reserve. The Actuarial Value of Assets includes only those assets that are taken into account in determining employer contribution rates. These exclude the Supplemental Retiree Benefit Reserve and the Contingency Reserve.

Historical Rates of Investment Return

Estimated Investment Return for the Year Ended December 31

	Market	Actuarial
Year	Value	Value
2002	-8.37%	-0.81%
2001	-4.08%	7.67%
2000	-2.92%	8.69%
1999	17.41%	13.29%
1998	12.93%	11.54%
1997	16.46%	16.75%
1996	14.26%	11.95%
1995	20.24%	13.46%

Comparison of Investment Return



The estimated rates of investment return for the years 1995 through 1999 are taken from the reports of the prior actuary, and have been calculated gross of investment expenses. The rates of return for the years 2000 through 2002 have been calculated net of investment fees.

Statement of Reserves and Fund Balances

	December 31, 2002	December 31, 2001
Member Deposit Reserves		
General Members	116,698,430	110,078,634
District Members	9,734,782	9,167,010
Safety Members	<u>57,879,851</u>	60,658,734
Subtotal	184,313,063	179,904,379
Employers Advance Reserves		
General Members	251,950,842	244,265,164
District Members	10,430,142	10,472,356
Safety Members	<u>187,812,755</u>	210,086,484
Subtotal	450,193,739	464,824,004
Cost-of-Living Reserves		
General Members	182,219,599	180,765,521
District Members	7,817,843	7,268,353
Safety Members	<u>137,106,479</u>	<u>136,117,600</u>
Subtotal	327,143,922	324,151,474
Retired Member Reserves		
General Members*	327,840,782	325,413,333
District Members*	11,140,510	11,058,022
Safety Members	235,305,783	<u>202,940,271</u>
Subtotal	574,287,075	539,411,627
Supplemental Retiree Benefit Reserves		
Remaining SRBR	93,335,372	163,612,428
Special 1/2% Account	64,420,254	<u>0</u>
Subtotal	157,755,626	163,612,428
Contingency Reserve	(31,834,731)	0
Market Stabilization Reserve	(276,976,449)	(160,585,145)
Total Fund Balance	1,384,882,245	1,511,318,766

^{*} The allocation of Member Deposit Reserves, Employers Advance Reserves and Cost of Living Reserves was supplied by KCERA. KCERA also split the Retired Member Reserves between General and Safety Members. The allocation of Retired Member Reserves between General and District Members for 1999 was performed by the prior actuary. The allocation of Retired Member Reserves between General and District Members for 2001 was calculated to be the same ratio as the 1999 split.

B. Liability Information

Present Value of Projected	Benefits		
Prior Assumptions			
2.0% COLA	Basic	COLA	Total
1. Retirees and Beneficiaries			
A. General			
i. County			
a. Regular Benefits	327,912,576	119,093,724	447,006,300
b. Golden Handshake	818,220	164,904	983,124
c. All Benefits	328,730,796	119,258,628	447,989,424
ii. Districts	14,740,848	4,555,716	19,296,564
iii. Total	343,471,644	123,814,344	467,285,988
B. Safety			
a. Regular Benefits	266,341,980	101,325,684	367,667,664
b. Golden Handshake	185,400	41,076	226,476
c. All Benefits	266,527,380	101,366,760	367,894,140
C. All Retirees and Beneficiaries	609,999,024	225,181,104	835,180,128
2. Deferred Vested Members			
A. General			
i. County	34,472,997	6,271,282	40,744,279
ii. Districts*	0	0	0
iii. Total	34,472,997	6,271,282	40,744,279
B. Safety	5,507,429	1,129,728	6,637,157
C. All Deferred Vested	39,980,426	7,401,010	47,381,436
3. Active Members			
A. General			
i. County	647,257,725	124,574,279	771,832,004
ii. Districts	45,675,504	9,067,716	54,743,220
iii. Total	692,933,229	133,641,995	826,575,224
B. Safety	438,090,369	93,415,915	531,506,284
C. All Active Members	1,131,023,598	227,057,910	1,358,081,508
4. All Members			
A. General i. County			
a. Regular Benefits	1,009,643,298	249,939,285	1,259,582,583
b. Golden Handshake	818,220	164,904	983,124
c. All Benefits	1,010,461,518	250,104,189	1,260,565,707
ii. Districts	60,416,352	13,623,432	74,039,784
iii. Total	1,070,877,870	263,727,621	1,334,605,491
B. Safety	.,010,011,010	200,121,021	1,00-1,000,-01
a. Regular Benefits	709,939,778	195,871,327	905,811,105
b. Golden Handshake	185,400	41,076	226,476
c. All Benefits	710,125,178	195,912,403	906,037,581
C. All Retirees and Beneficiaries	1,781,003,048	459,640,024	2,240,643,072

Prior Assumptions			
2.5% COLA	Basic	COLA	Total
1. Retirees and Beneficiaries			
A. General			
i. County			
a. Regular Benefits	327,912,576	139,188,744	467,101,320
b. Golden Handshake	818,220	211,896	1,030,116
c. All Benefits	328,730,796	139,400,640	468,131,436
ii. Districts iii. Total	14,740,848 343,471,644	5,404,800 144,805,440	20,145,648 488,277,084
B. Safety	343,47 1,044	144,605,440	400,211,004
a. Regular Benefits	266,341,980	101,325,684	367,667,664
b. Golden Handshake	185,400	53,748	239,148
c. All Benefits	266,527,380	120,752,208	387,279,588
C. All Retirees and Beneficiaries	609,999,024	265,557,648	875,556,672
2. Deferred Vested Members	,,-	,,-	,,-
A. General			
i. County	34,472,997	8,131,033	42,604,030
ii. Districts*	0	0,131,033	42,004,030
iii. Total	34,472,997	8,131,033	42,604,030
B. Safety	5,507,429	1,472,151	6,979,580
C. All Deferred Vested	39,980,426	9,603,184	49,583,610
3. Active Members			
A. General			
i. County	647,257,725	159,836,353	807,094,078
ii. Districts	45,675,504	11,616,373	57,291,877
iii. Total	692,933,229	171,452,726	864,385,955
B. Safety	438,090,369	121,663,459	559,753,828
C. All Active Members	1,131,023,598	293,116,185	1,424,139,783
4. All Members			
A. General i. County			
a. Regular Benefits	1,009,643,298	307,156,130	1,316,799,428
b. Golden Handshake	818,220	211,896	1,030,116
c. All Benefits	1,010,461,518	307,368,026	1,317,829,544
ii. Districts	60,416,352	17,021,173	77,437,525
iii. Total	1,070,877,870	324,389,199	1,395,267,069
B. Safety			
a. Regular Benefits	709,939,778	243,834,070	953,773,848
b. Golden Handshake	185,400	53,748	239,148
c. All Benefits	710,125,178	243,887,818	954,012,996
C. All Retirees and Beneficiaries	1,781,003,048	568,277,017	2,349,280,065

Proposed Assumptions 2.0% COLA	Basic	COLA	Total
1. Retirees and BeneficiariesA. Generali. County			
a. Regular Benefitsb. Golden Handshakec. All Benefitsii. Districts	343,290,936 847,500 344,138,436 15,548,940	128,874,816 179,544 129,054,360 5,002,332	472,165,752 1,027,044 473,192,796 20,551,272
iii. Total B. Safety	359,687,376	134,056,692	493,744,068
a. Regular Benefits b. Golden Handshake c. All Benefits C. All Retirees and Beneficiaries	266,341,980 186,732 270,458,820 630,146,196	101,325,684 42,324 104,759,592 238,816,284	367,667,664 229,056 375,218,412 868,962,480
2. Deferred Vested Members			
A. General i. County ii. Districts* iii. Total B. Safety	35,879,049 0 35,879,049 5,552,637	6,881,373 0 6,881,373 1,167,407	42,760,422 0 42,760,422 6,720,044
C. All Deferred Vested	41,431,686	8,048,780	49,480,466
3. Active Members A. General			
i. County ii. Districts iii. Total B. Safety C. All Active Members	567,065,586 37,359,849 604,425,435 417,039,236 1,021,464,671	114,029,438 7,672,925 121,702,363 90,808,151 212,510,514	681,095,024 45,032,774 726,127,798 507,847,387 1,233,975,185
4. All Members			
A. General i. County a. Regular Benefits	946,235,571	249,785,627	1,196,021,198
b. Golden Handshakec. All Benefitsii. Districts	847,500 947,083,071 52,908,789	179,544 249,965,171 12,675,257	1,027,044 1,197,048,242 65,584,046
iii. Total B. Safety a. Regular Benefits	999,991,860 692,863,961	262,640,428 196,692,826	1,262,632,288 889,556,787
b. Golden Handshakec. All BenefitsC. All Retirees and Beneficiaries	186,732 693,050,693 1,693,042,553	42,324 196,735,150 459,375,578	229,056 889,785,843 2,152,418,131

Proposed Assumptions			
2.5% COLA	Basic	COLA	Total
1. Retirees and BeneficiariesA. Generali. County			
a. Regular Benefits b. Golden Handshake c. All Benefits ii. Districts iii. Total B. Safety	343,290,936 847,500 344,138,436 15,548,940 359,687,376	151,132,260 231,276 151,363,536 5,956,392 157,319,928	494,423,196 1,078,776 495,501,972 21,505,332 517,007,304
a. Regular Benefits b. Golden Handshake c. All Benefits C. All Retirees and Beneficiaries	266,341,980 186,732 270,458,820 630,146,196	101,325,684 55,452 125,032,980 282,352,908	367,667,664 242,184 395,491,800 912,499,104
2. Deferred Vested Members			
A. General i. County ii. Districts* iii. Total B. Safety C. All Deferred Vested	35,879,049 0 35,879,049 5,552,637 41,431,686	8,939,602 0 8,939,602 1,523,265 10,462,867	44,818,651 0 44,818,651 7,075,902 51,894,553
3. Active Members	, ,	, ,	, ,
A. General i. County ii. Districts iii. Total B. Safety C. All Active Members	567,065,586 37,359,849 604,425,435 417,039,236 1,021,464,671	145,909,499 9,788,386 155,697,885 118,068,147 273,766,032	712,975,085 47,148,235 760,123,320 535,107,383 1,295,230,703
4. All Members			
A. General i. County			
a. Regular Benefitsb. Golden Handshakec. All Benefitsii. Districtsiii. Total	946,235,571 847,500 947,083,071 52,908,789 999,991,860	305,981,361 231,276 306,212,637 15,744,778 321,957,415	1,252,216,932 1,078,776 1,253,295,708 68,653,567 1,321,949,275
B. Safety a. Regular Benefits b. Golden Handshake c. All Benefits C. All Retirees and Beneficiaries	692,863,961 186,732 693,050,693 1,693,042,553	244,568,940 55,452 244,624,392 566,581,807	937,432,901 242,184 937,675,085 2,259,624,360

^{*} Liabilities for Deferred Vested Members who were previously employed at the Districts are included with Deferred Vested Liabilities for former County employees. These amounts will be separated in future valuations.



Actuarial Accrued Liability

Projected Unit Credit			
Prior Assumptions			
2.0% COLA	Basic	COLA	Total
1. Retirees and BeneficiariesA. Generali. County			
a. Regular Benefits b. Golden Handshake c. All Benefits ii. Districts iii. Total B. Safety a. Regular Benefits b. Golden Handshake	327,912,576 818,220 328,730,796 14,740,848 343,471,644 266,341,980 185,400	119,093,724 164,904 119,258,628 4,555,716 123,814,344 101,325,684 41,076	447,006,300 983,124 447,989,424 19,296,564 467,285,988 367,667,664 226,476
c. All Benefits	266,527,380	101,366,760	367,894,140
C. All Retirees and Beneficiaries 2. Deferred Vested Members A. General i. County ii. Districts* iii. Total B. Safety C. All Deferred Vested 3. Active Members A. General i. County ii. Districts iii. Total B. Safety C. All Active Members	34,472,997 0 34,472,997 5,507,429 39,980,426 408,528,640 25,959,959 434,488,599 291,890,061 726,378,660	225,181,104 6,271,282 0 6,271,282 1,129,728 7,401,010 79,195,969 5,217,388 84,413,357 61,876,663 146,290,020	40,744,279 0 40,744,279 6,637,157 47,381,436 487,724,609 31,177,347 518,901,956 353,766,724 872,668,680
4. All Members A. General i. County a. Regular Benefits b. Golden Handshake c. All Benefits ii. Districts iii. Total B. Safety a. Regular Benefits b. Golden Handshake c. All Benefits C. All Retirees and Beneficiaries	770,914,213 818,220 771,732,433 40,700,807 812,433,240 563,739,470 185,400 563,924,870 1,376,358,110	204,560,975 164,904 204,725,879 9,773,104 214,498,983 164,332,075 41,076 164,373,151 378,872,134	975,475,188 983,124 976,458,312 50,473,911 1,026,932,223 728,071,545 226,476 728,298,021 1,755,230,244

Projected Unit Credit Prior Assumptions

2.5% COLA	Basic	COLA	Total
1. Retirees and Beneficiaries			
A. General			
i. County			
a. Regular Benefits	327,912,576	139,188,744	467,101,320
b. Golden Handshake	818,220	211,896	1,030,116
c. All Benefits ii. Districts	328,730,796 14,740,848	139,400,640 5,404,800	468,131,436 20,145,648
iii. Total	343,471,644	144,805,440	488,277,084
B. Safety	040,47 1,044	144,000,440	400,277,004
a. Regular Benefits	266,341,980	101,325,684	367,667,664
b. Golden Handshake	185,400	53,748	239,148
c. All Benefits	266,527,380	120,752,208	387,279,588
C. All Retirees and Beneficiaries	609,999,024	265,557,648	875,556,672
2. Deferred Vested Members			
A. General			
i. County	34,472,997	8,131,033	42,604,030
ii. Districts*	0	0	0
iii. Total	34,472,997	8,131,033	42,604,030
B. Safety	5,507,429	1,472,151	6,979,580
C. All Deferred Vested	39,980,426	9,603,184	49,583,610
3. Active Members			
A. General			
i. County	408,528,640	101,593,339	510,121,979
ii. Districts	25,959,959	6,679,426	32,639,385
iii. Total	434,488,599	108,272,765	542,761,364
B. Safety	291,890,061	80,617,045	372,507,106
C. All Active Members	726,378,660	188,889,810	915,268,470
4. All Members			
A. General			
i. County			
a. Regular Benefits	770,914,213	248,913,116	1,019,827,329
b. Golden Handshake	818,220	211,896	1,030,116
c. All Benefits ii. Districts	771,732,433 40,700,807	249,125,012 12,084,226	1,020,857,445 52,785,033
iii. Total	812,433,240	261,209,238	1,073,642,478
B. Safety	012,400,240	201,203,230	1,073,042,470
a. Regular Benefits	563,739,470	202,787,656	766,527,126
b. Golden Handshake	185,400	53,748	239,148
c. All Benefits	563,924,870	202,841,404	766,766,274
C. All Retirees and Beneficiaries	1,376,358,110	464,050,642	1,840,408,752

Projected Unit Credit Proposed Assumptions Basic COLA Total 2.0% COLA 1. Retirees and Beneficiaries A. General i. County 472,165,752 a. Regular Benefits 343,290,936 128,874,816 b. Golden Handshake 847,500 179,544 1,027,044 c. All Benefits 344,138,436 129,054,360 473,192,796 ii. Districts 15.548.940 5,002,332 20,551,272 iii. Total 359,687,376 134,056,692 493,744,068 B. Safety 266,341,980 101,325,684 a. Regular Benefits 367,667,664 b. Golden Handshake 186,732 42,324 229,056 c. All Benefits 104,759,592 270,458,820 375,218,412 C. All Retirees and Beneficiaries 630,146,196 238,816,284 868,962,480 2. Deferred Vested Members A. General i. County 35.879.049 6.881.373 42.760.422 ii. Districts* 0 0 0 iii. Total 35,879,049 6,881,373 42,760,422 B. Safety 5,552,637 1,167,407 6,720,044 C. All Deferred Vested 41,431,686 8,048,780 49,480,466 3. Active Members A. General i. County 381,970,131 77,413,689 459,383,820 ii. Districts 4,906,889 23,631,235 28,538,124 iii. Total 405,601,366 82,320,578 487,921,944 B. Safety 281,508,606 60,752,682 342,261,288 C. All Active Members 687,109,972 143,073,260 830,183,232 4. All Members A. General i. County a. Regular Benefits 759,734,064 214,419,538 974,153,602 b. Golden Handshake 847,500 179,544 1,027,044 c. All Benefits 760,581,564 214,599,082 975,180,646 ii. Districts 39,180,175 9,909,221 49,089,396 iii. Total 224,508,303 799,761,739 1,024,270,042 B. Safety a. Regular Benefits 166,942,101 557,288,123 724,230,224 b. Golden Handshake 186,732 42,324 229,056

C. All Retirees and Beneficiaries

c. All Benefits

166,984,425

391,492,728

724,459,280

1,748,729,322

557,474,855

1,357,236,594

Projected Unit Credit			
Proposed Assumptions 2.5% COLA	Basic	COLA	Total
1. Retirees and BeneficiariesA. Generali. County			
a. Regular Benefitsb. Golden Handshakec. All Benefits	343,290,936 847,500 344,138,436	151,132,260 231,276 151,363,536	494,423,196 1,078,776 495,501,972
ii. Districts iii. Total B. Safety	15,548,940 359,687,376	5,956,392 157,319,928	21,505,332 517,007,304
a. Regular Benefits b. Golden Handshake c. All Benefits	266,341,980 186,732 270,458,820	101,325,684 55,452 125,032,980	367,667,664 242,184 395,491,800
C. All Retirees and Beneficiaries	630,146,196	282,352,908	912,499,104
2. Deferred Vested Members A. General			
i. County ii. Districts*	35,879,049 0	8,939,602 0	44,818,651 0
iii. Total B. Safety	35,879,049 5,552,637	8,939,602 1,523,265	44,818,651 7,075,902
C. All Deferred Vested	41,431,686	10,462,867	51,894,553
3. Active Members A. General			
i. County ii. Districts	381,970,131 23,631,235	99,032,437 6,254,411	481,002,568 29,885,646
iii. Total	405,601,366	105,286,848	510,888,214
B. Safety C. All Active Members	281,508,606 687,109,972	79,068,425 184,355,273	360,577,031 871,465,245
4. All MembersA. Generali. County			
a. Regular Benefits b. Golden Handshake	761,140,116 847,500	257,046,070 231,276	1,018,186,186 1,078,776
c. All Benefits	761,987,616	257,277,346	1,019,264,962
ii. Districts iii. Total	39,180,175 801,167,791	12,210,803 269,488,149	51,390,978 1,070,655,940
B. Safety	EEZ 222 224	205 242 260	700 540 004
a. Regular Benefits b. Golden Handshake	557,333,331 186,732	205,213,360 55,452	762,546,691 242,184
c. All Benefits C. All Retirees and Beneficiaries	557,520,063 1,358,687,854	205,268,812 474,756,961	762,788,875 1,833,444,815

Entry Age Prior Assumptions			
2.0% COLA	Basic	COLA	Total
1. Retirees and BeneficiariesA. Generali. County			
a. Regular Benefitsb. Golden Handshakec. All Benefitsii. Districts	327,912,576 818,220 328,730,796 14,740,848	119,093,724 164,904 119,258,628 4,555,716	447,006,300 983,124 447,989,424 19,296,564
iii. Total B. Safety	343,471,644	123,814,344	467,285,988
a. Řegular Benefits b. Golden Handshake	266,341,980 185,400	101,325,684 41,076	367,667,664 226,476
c. All Benefits C. All Retirees and Beneficiaries	266,527,380 609,999,024	101,366,760 225,181,104	367,894,140 835,180,128
2. Deferred Vested Members			
A. General i. County ii. Districts* iii. Total B. Safety	34,472,997 0 34,472,997 5,507,429	6,271,282 0 6,271,282 1,129,728	40,744,279 0 40,744,279 6,637,157
C. All Deferred Vested	39,980,426	7,401,010	47,381,436
3. Active Members A. General			
i. County ii. Districts iii. Total B. Safety C. All Active Members	438,671,100 28,487,541 467,158,641 298,196,677 765,355,318	86,743,116 5,615,706 92,358,822 62,935,484 155,294,306	525,414,216 34,103,247 559,517,463 361,132,161 920,649,624
4. All MembersA. Generali. County			
a. Regular Benefits b. Golden Handshake c. All Benefits	801,056,673 818,220 801,874,893	212,108,122 164,904 212,273,026	1,013,164,795 983,124 1,014,147,919
ii. Districts iii. Total	43,228,389 845,103,282	10,171,422 222,444,448	53,399,811 1,067,547,730
B. Safety a. Regular Benefits b. Golden Handshake	570,046,086	165,390,896 41,076	735,436,982
c. All Benefits	185,400 570,231,486	165,431,972	226,476 735,663,458

C. All Retirees and Beneficiaries

387,876,420

1,803,211,188

1,415,334,768

Entry Age			
Prior Assumptions			
2.5% COLA	Basic	COLA	Total
1. Retirees and Beneficiaries			
A. General			
i. County	207.042.670	100 100 711	407 404 220
a. Regular Benefits b. Golden Handshake	327,912,576 818,220	139,188,744 211,896	467,101,320 1,030,116
c. All Benefits	328,730,796	139,400,640	468,131,436
ii. Districts	14,740,848	5,404,800	20,145,648
iii. Total	343,471,644	144,805,440	488,277,084
B. Safety	0 10, 17 1,0 1 1	111,000,110	100,211,001
a. Regular Benefits	266,341,980	101,325,684	367,667,664
b. Golden Handshake	185,400	53,748	239,148
c. All Benefits	266,527,380	120,752,208	387,279,588
C. All Retirees and Beneficiaries	609,999,024	265,557,648	875,556,672
2. Deferred Vested Members			
A. General			
i. County	34,472,997	8,131,033	42,604,030
ii. Districts*	0	0	0
iii. Total	34,472,997	8,131,033	42,604,030
B. Safety	5,507,429	1,472,151	6,979,580
C. All Deferred Vested	39,980,426	9,603,184	49,583,610
3. Active Members			
A. General			
i. County	438,671,100	112,245,886	550,916,986
ii. Districts	28,487,541	7,268,471	35,756,012
iii. Total	467,158,641	119,514,357	586,672,998
B. Safety	298,196,677	82,119,493	380,316,170
C. All Active Members	765,355,318	201,633,850	966,989,168
4. All Members			
A. General			
i. County			
a. Regular Benefits	801,056,673	259,565,663	1,060,622,336
b. Golden Handshake	818,220	211,896	1,030,116
c. All Benefits	801,874,893	259,777,559	1,061,652,452
ii. Districts	43,228,389	12,673,271	55,901,660
iii. Total	845,103,282	272,450,830	1,117,554,112
B. Safety a. Regular Benefits	570,046,086	204,290,104	774,336,190
b. Golden Handshake	185,400	53,748	239,148
c. All Benefits	570,231,486	204,343,852	774,575,338
C. All Retirees and Beneficiaries	1,415,334,768	476,794,682	1,892,129,450
	, -,,	-,,	, , , ,

Entry Age			
Proposed Assumptions 2.0% COLA	Basic	COLA	Total
1. Retirees and BeneficiariesA. Generali. County			
a. Regular Benefitsb. Golden Handshakec. All Benefitsii. Districts	343,290,936 847,500 344,138,436 15,548,940	128,874,816 179,544 129,054,360 5,002,332	472,165,752 1,027,044 473,192,796 20,551,272
iii. Total B. Safety	359,687,376	134,056,692	493,744,068
a. Regular Benefits b. Golden Handshake c. All Benefits	266,341,980 186,732 270,458,820	101,325,684 42,324 104,759,592	367,667,664 229,056 375,218,412
C. All Retirees and Beneficiaries 2. Deferred Vested Members	630,146,196	238,816,284	868,962,480
A. General			
i. County ii. Districts*	35,879,049 0	6,881,373 0	42,760,422 0
iii. Total B. Safety C. All Deferred Vested	35,879,049 5,552,637 41,431,686	6,881,373 1,167,407 8,048,780	42,760,422 6,720,044 49,480,466
3. Active Members	41,401,000	0,040,700	40,400,400
A. General	440 000 004	04.000.070	
i. County ii. Districts	419,022,204 26,243,038	84,939,976 5,393,244	503,962,180 31,636,282
iii. Total	445,265,242	90,333,220	535,598,462
B. Safety	293,229,156	62,510,761	355,739,917
C. All Active Members	738,494,398	152,843,981	891,338,379
4. All MembersA. Generali. County			
a. Regular Benefits b. Golden Handshake	796,786,137 847,500	221,945,825 179,544	1,018,731,962 1,027,044
c. All Benefits ii. Districts	797,633,637 41,791,978	222,125,369 10,395,576	1,019,759,006 52,187,554
iii. Total	839,425,615	232,520,945	1,071,946,560
B. Safety	, ,	, ,	, , ,
a. Regular Benefits	569,008,673	168,700,180	737,708,853
b. Golden Handshakec. All Benefits	186,732 569,195,405	42,324 168,742,504	229,056 737,937,909

C. All Retirees and Beneficiaries

401,263,449 1,809,884,469

1,408,621,020

Entry Age

Proposed Assumptions			
2.5% COLA	Basic	COLA	Total
1. Retirees and BeneficiariesA. Generali. County			
a. Regular Benefits b. Golden Handshake c. All Benefits ii. Districts	343,290,936 847,500 344,138,436 15,548,940	151,132,260 231,276 151,363,536 5,956,392	494,423,196 1,078,776 495,501,972 21,505,332
iii. Total B. Safety a. Regular Benefits b. Golden Handshake	359,687,376 266,341,980 186,732	157,319,928 101,325,684 55,452	517,007,304 367,667,664 242,184
c. All Benefits C. All Retirees and Beneficiaries	270,458,820 630,146,196	125,032,980 282,352,908	395,491,800 912,499,104
2. Deferred Vested Members A. General			
i. County ii. Districts*	35,879,049 0	8,939,602 0	44,818,651 0
iii. Total B. Safety C. All Deferred Vested	35,879,049 5,552,637 41,431,686	8,939,602 1,523,265 10,462,867	44,818,651 7,075,902 51,894,553
3. Active Members	, ,	, ,	.,
A. General			
i. County	419,022,204	109,873,864	528,896,068
ii. Districts iii. Total	26,243,038 445,265,242	6,969,244	33,212,282
B. Safety	293,229,156	116,843,108 81,713,978	562,108,350 374,943,134
C. All Active Members	738,494,398	198,557,086	937,051,484
4. All Members			
A. General			
i. County a. Regular Benefits	798,192,189	267,887,497	1,066,079,686
b. Golden Handshake	847,500	231,276	1,078,776
c. All Benefits	799,039,689	268,118,773	1,067,158,462
ii. Districts	41,791,978	12,925,636	54,717,614
iii. Total	840,831,667	281,044,409	1,121,876,076
B. Safety	E60 0E2 001	207 050 012	776 012 704
a. Regular Benefits b. Golden Handshake	569,053,881 186,732	207,858,913 55,452	776,912,794 242,184
c. All Benefits	569,240,613	207,914,365	777,154,978
C. All Retirees and Beneficiaries	1,410,072,280	488,958,774	1,899,031,054

^{*} Liabilities for Deferred Vested Members who were previously employed at the Districts are included with Deferred Vested Liabilities for former County employees. These amounts will be separated in future valuations.



Normal Cost

Basic	COLA	Total
22,809,651	5,507,391	28,317,042
799,735 <u>830,559</u> <u>1,630,294</u> 24,439,945	179,084 <u>231,876</u> <u>410,960</u> 5,918,351	978,819 <u>1,062,435</u> <u>2,041,254</u> 30,358,296
15,204,879	3,562,168	18,767,047
38,014,530	9,069,559	47,084,089
799,735 <u>830,559</u> <u>1,630,294</u> 39,644,824	179,084 <u>231,876</u> <u>410,960</u> 9,480,519	978,819 <u>1,062,435</u> <u>2,041,254</u> 49,125,343
Basic	COLA	Total
Basic	COLA	Total
Basic 9.74%	COLA 2.35%	Total 12.10%
9.74% 12.09% 8.33% 9.83%	2.35% 2.71% 2.33% 2.48%	12.10% 14.80% 10.65% 12.31%
9.74% 12.09% 8.33% 9.83% 9.75% 18.29%	2.35% 2.71% 2.33% 2.48% 2.36% 4.29%	12.10% 14.80% 10.65% 12.31% 12.11% 22.58%
9.74% 12.09% 8.33% 9.83% 9.75%	2.35% 2.71% 2.33% 2.48% 2.36%	12.10% 14.80% 10.65% 12.31% 12.11%
	22,809,651 799,735 <u>830,559</u> <u>1,630,294</u> 24,439,945 15,204,879 38,014,530 799,735 <u>830,559</u> <u>1,630,294</u> 39,644,824	22,809,651 5,507,391 799,735 179,084 830,559 231,876 1,630,294 410,960 24,439,945 5,918,351 15,204,879 3,562,168 38,014,530 9,069,559 799,735 179,084 830,559 231,876 1,630,294 410,960 39,644,824 9,480,519

C. Funded Percentage

Basic Benefits			
Projected Unit Credit	General –	General –	
Prior Assumptions	County	Districts	Safety
1. Actuarial Accrued Liability			
a. Regular Benefits	770,914,213	40,700,807	563,739,470
b. Golden Handshakes	818,220	-	185,400
c. Total	771,732,433	40,700,807	563,924,870
2. Actuarial Value of Assets	683,398,798	30,717,017	471,957,524
3. Unfunded Actuarial Accrued L	iability		
a. Regular Benefits	87,515,415	9,983,790	91,781,946
b. Golden Handshakes	818,220	-	185,400
c. Total	88,333,635	9,983,790	91,967,346
4. Funded Percentage	88.6%	75.5%	83.7%
Projected Unit Credit	General –	General –	
Proposed Assumptions	County	Districts	Safety
1. Actuarial Accrued Liability			
a. Regular Benefits	750 704 004		
3	759,734,064	39,180,175	557,288,123
b. Golden Handshakes	759,734,064 847,500	39,180,175 -	557,288,123 186,732
•		39,180,175 - 39,180,175	
b. Golden Handshakes	847,500	-	186,732
b. Golden Handshakes c. Total	847,500 760,581,564 683,398,798	- 39,180,175	186,732 557,474,855
b. Golden Handshakesc. Total 2. Actuarial Value of Assets	847,500 760,581,564 683,398,798	- 39,180,175	186,732 557,474,855
b. Golden Handshakesc. Total 2. Actuarial Value of Assets 3. Unfunded Actuarial Accrued L	847,500 760,581,564 683,398,798 iability	39,180,175 30,717,017	186,732 557,474,855 471,957,524
 b. Golden Handshakes c. Total 2. Actuarial Value of Assets 3. Unfunded Actuarial Accrued La. Regular Benefits 	847,500 760,581,564 683,398,798 iability 76,335,266	39,180,175 30,717,017	186,732 557,474,855 471,957,524 85,330,599

Entry Age Prior Assumptions 1. Actuarial Accrued Liability	General – County	General – Districts	Safety
a. Regular Benefits	801,056,673	43,228,389	570,046,086
b. Golden Handshakes	818,220	-	185,400
c. Total	801,874,893	43,228,389	570,231,486
2. Actuarial Value of Assets	683,398,798	30,717,017	471,957,524
3. Unfunded Actuarial Accrued L	iability		
a. Regular Benefits	117,657,875	12,511,372	98,088,562
b. Golden Handshakes	818,220	-	185,400
c. Total	118,476,095	12,511,372	98,273,962
4. Funded Percentage	85.2%	71.1%	82.8%
Entry Age	General –	General –	
Entry Age Proposed Assumptions	General – County	General – Districts	Safety
			Safety
Proposed Assumptions			Safety 569,008,673
Proposed Assumptions 1. Actuarial Accrued Liability	County	Districts	
Proposed Assumptions 1. Actuarial Accrued Liability a. Regular Benefits	County 796,786,137	Districts	569,008,673
Proposed Assumptions 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes	County 796,786,137 847,500	Districts 41,791,978	569,008,673 186,732
Proposed Assumptions 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total	County 796,786,137 847,500 797,633,637 683,398,798	Districts 41,791,978 - 41,791,978	569,008,673 186,732 569,195,405
Proposed Assumptions 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total 2. Actuarial Value of Assets	County 796,786,137 847,500 797,633,637 683,398,798	Districts 41,791,978 - 41,791,978	569,008,673 186,732 569,195,405
Proposed Assumptions 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total 2. Actuarial Value of Assets 3. Unfunded Actuarial Accrued L	County 796,786,137 847,500 797,633,637 683,398,798 diability	Districts 41,791,978 - 41,791,978 30,717,017	569,008,673 186,732 569,195,405 471,957,524
Proposed Assumptions 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total 2. Actuarial Value of Assets 3. Unfunded Actuarial Accrued La. Regular Benefits	County 796,786,137 847,500 797,633,637 683,398,798 iability 113,387,339	Districts 41,791,978 - 41,791,978 30,717,017	569,008,673 186,732 569,195,405 471,957,524

COL Benefits Projected Unit Credit General -General – **Prior Assumptions Districts** 2.0% COLA County Safety 1. Actuarial Accrued Liability a. Regular Benefits 204,560,975 9,773,104 164,332,075 b. Golden Handshakes 164,904 41,076 c. Total 204,725,879 9,773,104 164,373,151 2. Actuarial Value of Assets 178,794,592 7,670,898 134,529,420 3. Unfunded Actuarial Accrued Liability a. Regular Benefits 2,102,206 25,766,383 29,802,655 b. Golden Handshakes 164,904 41,076 c. Total 25,931,287 2,102,206 29,843,731 4. Funded Percentage 81.8% 87.3% 78.5% **Projected Unit Credit** General -General – **Proposed Assumptions** 2.0% COLA **Districts** County Safety 1. Actuarial Accrued Liability a. Regular Benefits 214,419,538 9,909,221 166,942,101 b. Golden Handshakes 179,544 42,324 c. Total 214,599,082 166,984,425 9,909,221 2. Actuarial Value of Assets 7,670,898 178,794,592 134,529,420 3. Unfunded Actuarial Accrued Liability a. Regular Benefits 35,624,946 2,238,323 32,412,681 b. Golden Handshakes 179,544 42,324 c. Total 35,804,490 2,238,323 32,455,005 4. Funded Percentage 83.3% 77.4% 80.6%



Entry Age Prior Assumptions 2.0% COLA	General – County	General – Districts	Safety
1. Actuarial Accrued Liability			
a. Regular Benefits	212,108,122	10,171,422	165,390,896
b. Golden Handshakes	164,904	-	41,076
c. Total	212,273,026	10,171,422	165,431,972
2. Actuarial Value of Assets	178,794,592	7,670,898	134,529,420
3. Unfunded Actuarial Accrued L	Liability		
a. Regular Benefits	33,313,530	2,500,524	30,861,476
b. Golden Handshakes	164,904	-	41,076
c. Total	33,478,434	2,500,524	30,902,552
4. Funded Percentage	84.2%	75.4%	81.3%
Entry Age			
Proposed Assumptions 2.0% COLA	General – County	General – Districts	Safety
1. Actuarial Accrued Liability	-		_
a. Regular Benefits	221,945,825	10,395,576	168,700,180
b. Golden Handshakes	179,544	-	42,324
c. Total	222,125,369	10,395,576	168,742,504
2. Actuarial Value of Assets	178,794,592	7,670,898	134,529,420
3. Unfunded Actuarial Accrued L	Liability		
a. Regular Benefits	43,151,233	2,724,678	34,170,760
	43,131,233	• •	
b. Golden Handshakes	179,544	-	42,324
b. Golden Handshakes c. Total		- 2,724,678	42,324 34,213,084

Projected Unit Credit Prior Assumptions 2.5% COLA	General – County	General – Districts	Safety
Actuarial Accrued Liability			
a. Regular Benefits	248,913,116	12,084,226	202,787,656
b. Golden Handshakes	211,896	-	53,748
c. Total	249,125,012	12,084,226	202,841,404
2. Actuarial Value of Assets	211,742,374	9,385,939	163,076,005
3. Unfunded Actuarial Accrued Li	ability		
a. Regular Benefits	37,170,742	2,698,287	39,711,651
b. Golden Handshakes	211,896	-	53,748
c. Total	37,382,638	2,698,287	39,765,399
4. Funded Percentage	85.0%	77.7%	80.4%
Projected Unit Credit			
Projected Unit Credit Proposed Assumptions 2.5% COLA	General – County	General – Districts	Safety
Proposed Assumptions	General – County		Safety
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability	_		_
Proposed Assumptions 2.5% COLA	County	Districts	Safety 205,213,360 55,452
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits	County 257,046,070	Districts	205,213,360
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes	County 257,046,070 231,276	Districts 12,210,803	205,213,360 55,452
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total	County 257,046,070 231,276 257,277,346 211,193,471	Districts 12,210,803 - 12,210,803	205,213,360 55,452 205,268,812
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total 2. Actuarial Value of Assets	County 257,046,070 231,276 257,277,346 211,193,471	Districts 12,210,803 - 12,210,803	205,213,360 55,452 205,268,812
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total 2. Actuarial Value of Assets 3. Unfunded Actuarial Accrued Liability	County 257,046,070 231,276 257,277,346 211,193,471 ability	Districts 12,210,803 - 12,210,803 9,418,127	205,213,360 55,452 205,268,812 163,592,721
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total 2. Actuarial Value of Assets 3. Unfunded Actuarial Accrued Liability a. Regular Benefits	County 257,046,070 231,276 257,277,346 211,193,471 ability 45,852,599	Districts 12,210,803 - 12,210,803 9,418,127	205,213,360 55,452 205,268,812 163,592,721 41,620,639



Entry Age Prior Assumptions 2.5% COLA	General –	General – Districts	Safaty
	County	Districts	Safety
Actuarial Accrued Liability Regular Banafits	050 505 000	40.070.074	004 000 404
a. Regular Benefits	259,565,663	12,673,271	204,290,104
b. Golden Handshakes	211,896	-	53,748
c. Total	259,777,559	12,673,271	204,343,852
2. Actuarial Value of Assets	212,564,184	9,449,390	162,190,745
3. Unfunded Actuarial Accrued L	Liability		
a. Regular Benefits	47,001,479	3,223,881	42,099,359
b. Golden Handshakes	211,896	-	53,748
c. Total	47,213,375	3,223,881	42,153,107
4. Funded Percentage	81.8%	74.6%	79.4%
Entry Age			
Proposed Assumptions	General –	General –	
2.5% COLA	County	Districts	Safety
1. Actuarial Accrued Liability			
a. Regular Benefits	267,887,497	12,925,636	207,858,913
b. Golden Handshakes	231,276	-	55,452
-			
c. Total	268,118,773	12,925,636	207,914,365
c. Total 2. Actuarial Value of Assets	268,118,773 211,945,912	12,925,636 9,494,526	207,914,365
	211,945,912		
2. Actuarial Value of Assets	211,945,912		
 Actuarial Value of Assets Unfunded Actuarial Accrued L 	211,945,912 Liability	9,494,526	162,763,880
2. Actuarial Value of Assets3. Unfunded Actuarial Accrued La. Regular Benefits	211,945,912 Liability 55,941,585	9,494,526	162,763,880 45,095,033

Total Regular Benefits			
Projected Unit Credit Prior Assumptions 2.0% COLA	General – County	General – Districts	Safety
1. Actuarial Accrued Liability			
a. Regular Benefits	975,475,188	50,473,911	728,071,545
b. Golden Handshakes	983,124	-	226,476
c. Total	976,458,312	50,473,911	728,298,021
2. Actuarial Value of Assets	862,193,390	38,387,915	606,486,945
3. Unfunded Actuarial Accrued L	iability		
a. Regular Benefits	113,281,798	12,085,996	121,584,600
b. Golden Handshakes	983,124	-	226,476
c. Total	114,264,922	12,085,996	121,811,076
4. Funded Percentage	88.3%	76.1%	83.3%
Projected Unit Credit Proposed Assumptions	General –	General –	
2.0% COLA	County	Districts	Safety
1. Actuarial Accrued Liability			
a. Regular Benefits	974,153,602	49,089,396	724,230,224
b. Golden Handshakes	1,027,044	-	229,056
c. Total	975,180,646	49,089,396	724,459,280
2. Actuarial Value of Assets	862,193,390	38,387,915	606,486,945
3. Unfunded Actuarial Accrued L	iability		
a. Regular Benefits	111,960,212	10,701,481	117,743,279
b. Golden Handshakes	1,027,044	-	229,056
c. Total	112,987,256	10,701,481	117,972,335
4. Funded Percentage	88.4%	78.2%	83.7%



Entry Age Prior Assumptions 2.0% COLA	General – County	General – Districts	Safety
1. Actuarial Accrued Liability			
a. Regular Benefits	1,013,164,795	53,399,811	735,436,982
b. Golden Handshakes	983,124	-	226,476
c. Total	1,014,147,919	53,399,811	735,663,458
2. Actuarial Value of Assets	862,193,390	38,387,915	606,486,945
3. Unfunded Actuarial Accrued	Liability		
a. Regular Benefits	150,971,405	15,011,896	128,950,037
b. Golden Handshakes	983,124	-	226,476
c. Total	151,954,529	15,011,896	129,176,513
4. Funded Percentage	85.0%	71.9%	82.4%
Entry Age			
Proposed Assumptions 2.0% COLA	General – County	General – Districts	Safety
1. Actuarial Accrued Liability	-		_
a. Regular Benefits	1,018,731,962	52,187,554	737,708,853
b. Golden Handshakes	1,027,044	-	229,056
c. Total	1,019,759,006	52,187,554	737,937,909
2. Actuarial Value of Assets	862,193,390	38,387,915	606,486,945
3. Unfunded Actuarial Accrued	Liability		
a. Regular Benefits	156,538,572	13,799,639	131,221,908
b. Golden Handshakes	1,027,044	-	229,056
c. Total			
0. 10.0.	157,565,616	13,799,639	131,450,964

Projected Unit Credit Prior Assumptions 2.5% COLA	General – County	General – Districts	Safety
1. Actuarial Accrued Liability			
a. Regular Benefits	1,019,827,329	52,785,033	766,527,126
b. Golden Handshakes	1,030,116	-	239,148
c. Total	1,020,857,445	52,785,033	766,766,274
2. Actuarial Value of Assets	895,141,172	40,102,956	635,033,529
3. Unfunded Actuarial Accrued	Liability		
a. Regular Benefits	124,686,157	12,682,077	131,493,597
b. Golden Handshakes	1,030,116	-	239,148
c. Total	125,716,273	12,682,077	131,732,745
4. Funded Percentage	87.7%	76.0%	82.8%
Projected Unit Credit			
Projected Unit Credit Proposed Assumptions 2.5% COLA	General – County	General – Districts	Safety
Proposed Assumptions		0.01101011	Safety
Proposed Assumptions 2.5% COLA		0.01101011	Safety 762,546,691
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability	County	Districts	•
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits	County 1,018,186,186	Districts	762,546,691
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes	County 1,018,186,186 1,078,776	Districts 51,390,978	762,546,691 242,184
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total	County 1,018,186,186 1,078,776 1,019,264,962 894,592,268	Districts 51,390,978 - 51,390,978	762,546,691 242,184 762,788,875
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total 2. Actuarial Value of Assets	County 1,018,186,186 1,078,776 1,019,264,962 894,592,268	Districts 51,390,978 - 51,390,978	762,546,691 242,184 762,788,875
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total 2. Actuarial Value of Assets 3. Unfunded Actuarial Accrued	County 1,018,186,186 1,078,776 1,019,264,962 894,592,268 Liability	Districts 51,390,978 - 51,390,978 40,135,143	762,546,691 242,184 762,788,875 635,550,245
Proposed Assumptions 2.5% COLA 1. Actuarial Accrued Liability a. Regular Benefits b. Golden Handshakes c. Total 2. Actuarial Value of Assets 3. Unfunded Actuarial Accrued a. Regular Benefits	County 1,018,186,186	Districts 51,390,978 - 51,390,978 40,135,143	762,546,691 242,184 762,788,875 635,550,245



Entry Age Prior Assumptions 2.5% COLA	General – County	General – Districts	Safety
1. Actuarial Accrued Liability			
a. Regular Benefits	1,060,622,336	55,901,660	774,336,190
b. Golden Handshakes	1,030,116	-	239,148
c. Total	1,061,652,452	55,901,660	774,575,338
2. Actuarial Value of Assets	895,962,981	40,166,407	634,148,269
3. Unfunded Actuarial Accrued	Liability		
a. Regular Benefits	164,659,355	15,735,253	140,187,921
b. Golden Handshakes	1,030,116	-	239,148
c. Total	165,689,471	15,735,253	140,427,069
4. Funded Percentage	84.4%	71.9%	81.9%
Entry Age			
Proposed Assumptions 2.5% COLA	General – County	General – Districts	Safety
1. Actuarial Accrued Liability			
a. Regular Benefits	1,066,079,686	54,717,614	776,912,794
b. Golden Handshakes	1,078,776	-	242,184
c. Total	1,067,158,462	54,717,614	777,154,978
2. Actuarial Value of Assets	895,344,710	40,211,542	634,721,405
3. Unfunded Actuarial Accrued	Liability		
a. Regular Benefits	170,734,976	14,506,072	142,191,389
b. Golden Handshakes	1,078,776	-	242,184
c. Total	171,813,752	14,506,072	142,433,573
	,, -	, ,	

Changes in Funded Percentage

As of Prior Valuation 93.6%

Changes in Funded Percentage due to:

Total Changes	-10.9%
Assumption Changes	<u>-0.3%</u>
Method Changes	-2.3%
Benefit Increase	-0.5%
Investment Losses	-7.6%
Demographic Losses	-0.6%
Normal Operation	0.5%

As of Current Valuation 82.7%

The funded percentage shown above excludes \$285,092,130 in Pension Obligation Bond (POB) proceeds. The POB proceeds were not available as of December 31, 2002, but were expected to be contributed to KCERA prior to July 1, 2003, when the new contribution rates would take effect. Funding from the POBs would increase the funded percentage by 15.0% to 97.7%.

Supplemental Retiree Benefit Reserve

	Approved Liabilities	Projected Liabilities
Retirees and Beneficiaries	49,935,396	60,192,624
Active and Deferred Members	10,041,634	<u>47,583,593</u>
All Members	59,977,030	107,776,217
Available Reserves		
Total SRBR	154,790,445	154,790,445
Additional 0.5% COLA Account	63,209,408	63,209,408
Available SRBR	91,581,037	91,581,037
Funded Percentage	152.7%	85.0%

As part of a court settlement, the County has increased the maximum cost-of-living increase that can be provided from Regular Plan reserves from the current level of 2% per year, up to 2.5% per year. This benefit increase will be partly funded using money set aside for this purpose within the Supplemental Retiree Benefit Reserve by the Retirement Board.

D. Employer Contribution Rates

Basic Benefits

Without POBs	General – County	General – Districts Electing MOU	General – District Not Electing MOU	Safety
1. Total Normal Cost	•			•
a. Dollars	25,330,875	736,500	1,152,075	15,027,359
b. Percent of Pay	10.47%	10.47%	10.47%	18.20%
2. Projected Employee		74.000	004005	4 0 40 000
a. Dollars	4,322,562	74,032	294,365	1,342,688
b. Percent of Pay	1.79%	1.05%	2.67%	1.63%
3. Employer Normal Co	est			
a. Dollars	21,008,313	662,468	857,710	13,684,671
b. Percent of Pay	8.68%	9.41%	7.79%	16.57%
4. Amortization of Unf	unded Actuarial A	Accrued Liability		
a. Dollars	5,199,596	206,103	322,398	5,622,457
b. Percent of Pay	2.15%	2.93%	2.93%	6.81%
5. Employer Contribution	on			
a. Dollars	26,207,909	868,571	1,180,108	19,307,128
b. Percent of Pay	10.83%	12.34%	10.72%	23.38%

Overall Average Rate = 13.88%

With POBs	General – County	General – Districts Electing MOU	General – District Not Electing MOU	Safety
Total Normal Cost	County	MOO	MOO	Garcty
a. Dollars	25,330,875	736,500	1,152,075	15,027,359
		·		
b. Percent of Pay	10.47%	10.47%	10.47%	18.20%
2. Projected Employee	Contributions			
a. Dollars	4,322,562	74,032	294,365	1,342,688
b. Percent of Pay	1.79%	1.05%	2.67%	1.63%
3. Employer Normal Co	ost			
a. Dollars	21,008,313	662,468	857,710	13,684,671
b. Percent of Pay	8.68%	9.41%	7.79%	16.57%
4. Amortization of Un	funded Actuarial	Accrued Liability		
a. Dollars	5,199,596	206,103	322,398	5,622,457
b. Percent of Pay	2.15%	2.93%	2.93%	6.81%
5. Amortization of Estir	nated POB Proce	eds		
a. Dollars	-5,612,282	0	0	-6,068,705
b. Percent of Pay	-2.32%	0.00%	0.00%	-7.35%
6. Employer Contribution	on			
a. Dollars	20,595,627	868,571	1,180,108	13,238,423
b. Percent of Pay	8.51%	12.34%	10.72%	16.03%

Overall Average Rate = 10.47%

COL Benefits

	General –	General – Districts Electing	General – District Not Electing	
Without POBs	County	MOU	MOU	Safety
1. Total Normal Cost				
a. Dollars	6,158,654	179,064	280,102	4,339,013
b. Percent of Pay	2.54%	2.54%	2.54%	5.25%
2. Projected Employee	Contributions			
a. Dollars	0	0	0	0
b. Percent of Pay	0.00%	0.00%	0.00%	0.00%
3. Employer Normal Co	st			
a. Dollars	6,158,654	179,064	280,102	4,339,013
b. Percent of Pay	2.54%	2.54%	2.54%	5.25%
4. Amortization of Unfo	unded Actuarial <i>F</i>	Accrued Liability		
a. Dollars	2,865,423	70,060	109,593	2,644,106
b. Percent of Pay	1.18%	1.00%	1.00%	3.20%
5. Employer Contributio	n			
a. Dollars	9,024,077	249,124	389,695	6,983,119
b. Percent of Pay	3.73%	3.54%	3.54%	8.46%

Overall Average Rate = 4.86%

With DODG	General –	General – Districts Electing	General – District Not Electing	Safatry
With POBs	County	MOU	MOU	Safety
1. Total Normal Cost				
a. Dollars	6,158,654	179,064	280,102	4,339,013
b. Percent of Pay	2.54%	2.54%	2.54%	5.25%
2. Projected Employee	Contributions			
a. Dollars	0	0	0	0
b. Percent of Pay	0.00%	0.00%	0.00%	0.00%
3. Employer Normal Co	ost			
a. Dollars	6,158,654	179,064	280,102	4,339,013
b. Percent of Pay	2.54%	2.54%	2.54%	5.25%
4. Amortization of Unfu	ınded Actuarial Ad	crued Liability		
a. Dollars	2,865,423	70,060	109,593	2,644,106
b. Percent of Pay	1.18%	1.00%	1.00%	3.20%
5. Amortization of Estir	nated POB Proce	eds		
a. Dollars	-3,092,848	0	0	-2,853,966
b. Percent of Pay	-1.28%	0.00%	0.00%	-3.46%
6. Employer Contribution	on			
a. Dollars	5,931,229	249,124	389,695	4,129,153
b. Percent of Pay	2.45%	3.54%	3.54%	5.00%

Overall Average Rate = 3.12%

Total Contribution Rates

Without POBs	General – County	General – Districts Electing MOU	General – District Not Electing MOU	Safety
Total Normal Cost	County	14100	14100	Odicty
a. Dollars	31,489,529	915,564	1,432,177	19,366,372
b. Percent of Pay	13.01%	13.01%	13.01%	23.45%
2. Projected Employee	Contributions			
a. Dollars	4,322,562	74,032	294,365	1,342,688
b. Percent of Pay	1.79%	1.05%	2.67%	1.63%
3. Employer Normal Co	st			
a. Dollars	27,166,967	841,532	1,137,812	18,023,684
b. Percent of Pay	11.23%	11.96%	10.34%	21.82%
4. Amortization of Unf	unded Actuarial	Accrued Liability		
a. Dollars	8,065,019	276,163	431,991	8,266,563
b. Percent of Pay	3.33%	3.92%	3.92%	10.01%
5. Employer Contribution	n			
a. Dollars	35,231,986	1,117,695	1,569,803	26,290,247
b. Percent of Pay	14.56%	15.88%	14.26%	31.83%

Overall Average Rate = 18.74%

The County's required contribution for 2002 shown above will be reduced by \$77,514 due to maximum benefit limitations imposed by Section 415 of the Internal Revenue Code.

With POBs	General – County	General – Districts Electing MOU	General – District Not Electing MOU	Safety
	County	IVIOU	IVIOU	Salety
1. Total Normal Cost				
a. Dollars	31,489,529	915,564	1,432,177	19,366,372
b. Percent of Pay	13.01%	13.01%	13.01%	23.45%
2. Projected Employee	Contributions			
a. Dollars	4,322,562	74,032	294,365	1,342,688
b. Percent of Pay	1.79%	1.05%	2.67%	1.63%
3. Employer Normal Co	ost			
a. Dollars	27,166,967	841,532	1,137,812	18,023,684
b. Percent of Pay	11.23%	11.96%	10.34%	21.82%
4. Amortization of Un	funded Actuarial A	Accrued Liability		
a. Dollars	8,065,019	276,163	431,991	8,266,563
b. Percent of Pay	3.33%	3.92%	3.92%	10.01%
5. Amortization of Estin	nated POB Proce	eds		
a. Dollars	-8,705,130	0	0	-8,922,671
b. Percent of Pay	-3.60%	0.00%	0.00%	-10.80%
6. Employer Contribution	on			
a. Dollars	26,526,856	1,117,695	1,569,803	17,367,576
b. Percent of Pay	10.96%	15.88%	14.26%	21.03%

Overall Average Rate = 13.60%

The County's required contribution for 2002 shown above will be reduced by \$77,514 due to maximum benefit limitations imposed by Section 415 of the Internal Revenue Code.

13.60%

Changes in Average Contribution Rate

As of Prior Valuation		16.96%
Changes in Average Contribution Rate due to:		
Demographic Losses	0.52%	
Investment Losses	2.87%	
Benefit Increase	1.17%	
Method Changes	1.27%	
Assumption Changes	(1.97%)	
Amortization Changes	(2.08%)	
Pension Obligation Bond	<u>(5.14%)</u>	
Total Changes	(3.36%)	

As of Current Valuation

E. Summary of Major Plan Provisions –General 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

Code Section: 31676.14

Eligibility: 10 years of service and age 50, or

30 years of service regardless of age, or

age 70 regardless of service.

Benefit: 1.667% of FAS per year of service times

RAF

Retirement Age Factor (RAF): Adjustment factor for benefit

commencing at age other than 52.

Sample factors:

Age	Factor		
50	.8850		
55	1.1686		
60	1.4638		
65	1.5668		

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 member. If there is no surviving spouse, the benefit is paid to

eligible children.

Nonservice Connected Disability

Eligibility: 5 years of service.

Disabled Definition: Unable to perform their own job.

Benefit: 20% of FAS, plus

2% of FAS for each year of service in

excess of 5, but

not more than 40% of FAS

Normal Form of Benefit: Life annuity; 60% continuance to spouse

after death of member. If there is no surviving spouse, the benefit is paid to

eligible children.

Service Connected Disability

Eligibility: First day of work

Disabled Definition: Disability is substantially caused by

employment and unable to perform their

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 1 month's salary for each year of service (maximum 6 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: 5 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. This has been increased

by 0.5% this year.

Member Contributions

Basic: Contribution is set by a table adopted by

the Retirement Board designed to be sufficient to provide an average annuity, at age 55, equal to 1/120 of the final

compensation of members.

COLA: None

Percentage of Full Contribution

Payable by Member:

For County employees (and employees of Districts adopting the MOU) hired on or often Devicell Pariod 07.14:

or after Payroll Period 97-14:

- 100% of the Full Contribution Rate for their first 5 years of service.
- No employee contributions are required after attaining 5 years of

service.

For County employees (and employees of Districts adopting the MOU) hired before Payroll Period 97-14:

- 50% of the Full Contribution Rate for their first 5 years of service.
- No employee contributions are required after attaining 5 years of service.

For employees of Districts not adopting the MOU, 50% of Full Contribution Rate for first 30 years of service.

Integration with Social Security: Members integrated with Social Security

pay 2/3 of the full rate on first \$350 of pay

each month.

Other Provisions: Rates based on age at entry into System.

F. Member Contribution Rates –General Members

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). Due to the changes in the Plan's mortality and salary increase assumptions, the member contribution rates have been recalculated. The recommended contribution rates for General Members are presented below.

Proposed Full Member Contribution Rates (Integrated)

	Rate on First \$350 of Monthly	Rate on Compensation in Excess of \$350 per		Rate on First \$350 of Monthly	Rate on Compensation in Excess of \$350 per
Age	Compensation	Month	Age	Compensation	Month
20	3.44%	5.16%	38	4.77%	7.16%
21	3.50%	5.25%	39	4.86%	7.30%
22	3.57%	5.35%	40	4.96%	7.43%
23	3.63%	5.45%	41	5.05%	7.58%
24	3.70%	5.55%	42	5.15%	7.73%
25	3.77%	5.65%	43	5.26%	7.88%
26	3.84%	5.76%	44	5.37%	8.05%
27	3.91%	5.86%	45	5.48%	8.22%
28	3.98%	5.97%	46	5.61%	8.41%
29	4.05%	6.08%	47	5.75%	8.62%
30	4.13%	6.19%	48	5.90%	8.85%
31	4.20%	6.30%	49	5.90%	8.85%
32	4.28%	6.42%	50	5.90%	8.85%
33	4.36%	6.53%	51	5.90%	8.85%
34	4.44%	6.65%	52	5.90%	8.85%
35	4.52%	6.78%	53	5.90%	8.85%
36	4.60%	6.90%	54	5.90%	8.85%
37	4.69%	7.03%			

Proposed Full Member Contribution Rates (Non-Integrated)

۸۵۵	Contribution	A 330	Contribution
Age	Rate	Age	Rate
20	5.16%	38	7.16%
21	5.25%	39	7.30%
22	5.35%	40	7.43%
23	5.45%	41	7.58%
24	5.55%	42	7.73%
25	5.65%	43	7.88%
26	5.76%	44	8.05%
27	5.86%	45	8.22%
28	5.97%	46	8.41%
29	6.08%	47	8.62%
30	6.19%	48	8.85%
31	6.30%	49	8.85%
32	6.42%	50	8.85%
33	6.53%	51	8.85%
34	6.65%	52	8.85%
35	6.78%	53	8.85%
36	6.90%	54	8.85%
37	7.03%		

The prior year contribution rates for General Members have been calculated by the prior actuary and presented here without audit by Public Pension Professionals.

Prior Full Member Contribution Rates (Integrated)

	Rate on First \$350 of Monthly	Rate on Compensation in Excess of \$350 per		Rate on First \$350 of Monthly	Rate on Compensation in Excess of \$350 per
Age	Compensation	Month	Age	Compensation	Month
20	4.85%	7.28%	38	5.91%	8.86%
21	4.89%	7.33%	39	5.99%	8.99%
22	4.92%	7.38%	40	6.08%	9.12%
23	4.95%	7.42%	41	6.17%	9.26%
24	4.98%	7.47%	42	6.27%	9.41%
25	5.01%	7.52%	43	6.37%	9.55%
26	5.07%	7.60%	44	6.47%	9.70%
27	5.12%	7.68%	45	6.56%	9.84%
28	5.17%	7.76%	46	6.65%	9.98%
29	5.23%	7.84%	47	6.75%	10.13%
30	5.28%	7.92%	48	6.85%	10.27%
31	5.35%	8.03%	49	6.95%	10.42%
32	5.43%	8.14%	50	7.04%	10.56%
33	5.51%	8.26%	51	7.14%	10.71%
34	5.58%	8.37%	52	7.24%	10.86%
35	5.65%	8.48%	53	7.34%	11.01%
36	5.74%	8.61%	54	7.44%	11.16%
37	5.83%	8.74%			

Prior Full Member Contribution Rates (Non-Integrated)

Age	Contribution Rate	Age	Contribution Rate
20	7.28%	38	8.86%
21	7.33%	39	8.99%
22	7.38%	40	9.12%
23	7.42%	41	9.26%
24	7.47%	42	9.41%
25	7.52%	43	9.55%
26	7.60%	44	9.70%
27	7.68%	45	9.84%
28	7.76%	46	9.98%
29	7.84%	47	10.13%
30	7.92%	48	10.27%
31	8.03%	49	10.42%
32	8.14%	50	10.56%
33	8.26%	51	10.71%
34	8.37%	52	10.86%
35	8.48%	53	11.01%
36	8.61%	54	11.16%
37	8.74%		

G. Summary of Major Plan Provisions –Safety Members

Membership: Employment (at least 50% of full-time)

with County. Enter on first day of the first pay period after entrance into service.

Final Average Salary (FAS): Highest one-year average

Service Retirement

Code Section: 31664.1 effective January 1, 2001.

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

RAF

Retirement Age Factor (RAF): Adjustment factor for benefit

commencing at age other than 50.

Sample factors:

Age	Factor
45	.7805
50	1.0000
55	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 member. If there is no surviving spouse, the benefit is paid to

eligible children.

Nonservice Connected Disability

Eligibility: 5 years of service.

Disabled Definition: Unable to perform their own job.

Benefit: 20% of FAS, plus

2% of FAS for each year of service in

excess of 5,

but not more than 40% of FAS

Normal Form of Benefit: Life annuity; 60% continuance to spouse

after death of member. If there is no surviving spouse, the benefit is paid to

eligible children.

Service Connected Disability

Eligibility: First day of work

Disabled Definition: Disability is substantially caused by

employment and unable to perform their

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 1 month's salary for each year of service (maximum 6 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: 5 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. This has increased 0.5%

this year.

Member Contributions

Basic: Contribution is set by a table adopted by

the Retirement Board designed to be sufficient to provide an average annuity, at age 50, equal to 1/100 of the final

compensation of members.

COLA: None

Percentage of Full Contribution

Payable by Member:

For County employees hired on or after Payroll Period 97-14:

- 100% of the Full Contribution Rate for their first 5 years of service.
- No employee contributions are required after attaining 5 years of service.

For County employees hired before Payroll Period 97-14:

- 50% of the Full Contribution Rate for their first 5 years of service.
- No employee contributions are required after attaining 5 years of service.

Integration with Social Security: Members in

Members integrated with Social Security pay 2/3 of the full rate on first \$350 of pay

each month.

Other Provisions: Rates based on age at entry into System.

H. Member Contribution Rates –Safety Members

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). Due to the changes in the Plan's mortality and salary increase assumptions, the member contribution rates have been recalculated. The recommended contribution rates for Safety Members are presented below.

Proposed Full Member Contribution Rates (Integrated)

	Rate on First \$350 of Monthly	Rate on Compensation in Excess of \$350 per		Rate on First \$350 of Monthly	Rate on Compensation in Excess of \$350 per
Age	Compensation	Month	Age	Compensation	Month
20	5.06%	7.59%	35	6.47%	9.71%
21	5.14%	7.71%	36	6.60%	9.90%
22	5.22%	7.83%	37	6.73%	10.09%
23	5.30%	7.96%	38	6.87%	10.30%
24	5.39%	8.08%	39	7.02%	10.53%
25	5.48%	8.21%	40	7.03%	10.55%
26	5.56%	8.35%	41	7.05%	10.58%
27	5.65%	8.48%	42	7.07%	10.60%
28	5.75%	8.62%	43	7.08%	10.63%
29	5.84%	8.76%	44	7.10%	10.65%
30	5.94%	8.91%	45	7.12%	10.68%
31	6.04%	9.06%	46	7.13%	10.70%
32	6.14%	9.21%	47	7.15%	10.73%
33	6.25%	9.37%	48	7.17%	10.75%
34	6.36%	9.54%	49	7.18%	10.78%

Proposed Full Member Contribution Rates (Non-Integrated)

	Contribution		Contribution
Age	Rate	Age	Rate
20	7.59%	35	9.71%
21	7.71%	36	9.90%
22	7.83%	37	10.09%
23	7.96%	38	10.30%
24	8.08%	39	10.53%
25	8.21%	40	10.55%
26	8.35%	41	10.58%
27	8.48%	42	10.60%
28	8.62%	43	10.63%
29	8.76%	44	10.65%
30	8.91%	45	10.68%
31	9.06%	46	10.70%
32	9.21%	47	10.73%
33	9.37%	48	10.75%
34	9.54%	49	10.78%

The prior year contribution rates for Safety Members have been calculated by the prior actuary and presented here without audit by Public Pension Professionals.

Prior Full Member Contribution Rates (Integrated)

•	Rate on First \$350 of Monthly	Rate on Compensation in Excess of \$350 per	A	Rate on First \$350 of Monthly	Rate on Compensation in Excess of \$350 per
Age	Compensation	Month	Age	Compensation	Month
20	5.44%	8.16%	35	6.45%	9.68%
21	5.49%	8.24%	36	6.55%	9.83%
22	5.55%	8.32%	37	6.65%	9.98%
23	5.60%	8.40%	38	6.76%	10.14%
24	5.65%	8.48%	39	6.86%	10.29%
25	5.71%	8.56%	40	6.96%	10.44%
26	5.77%	8.66%	41	7.07%	10.60%
27	5.85%	8.77%	42	7.17%	10.76%
28	5.91%	8.87%	43	7.28%	10.92%
29	5.99%	8.98%	44	7.39%	11.08%
30	6.05%	9.08%	45	7.49%	11.24%
31	6.13%	9.20%	46	7.61%	11.41%
32	6.21%	9.32%	47	7.72%	11.58%
33	6.29%	9.44%	48	7.83%	11.75%
34	6.37%	9.56%	49	7.95%	11.92%

Prior Full Member Contribution Rates (Non-Integrated)

	Contribution		Contribution
Age	Rate	Age	Rate
20	8.16%	35	9.68%
21	8.24%	36	9.83%
22	8.32%	37	9.98%
23	8.40%	38	10.14%
24	8.48%	39	10.29%
25	8.56%	40	10.44%
26	8.66%	41	10.60%
27	8.77%	42	10.76%
28	8.87%	43	10.92%
29	8.98%	44	11.08%
30	9.08%	45	11.24%
31	9.20%	46	11.41%
32	9.32%	47	11.58%
33	9.44%	48	11.75%
34	9.56%	49	11.92%

L Summary of Actuarial Assumptions and **Funding Methods**

This actuarial valuation report has been prepared in accordance with generally accepted actuarial principles and practices. The major assumptions and methods used in this valuation are as follows:

Economic Assumptions

Interest: 8.0% per year.

Salary Increase – Total Payroll: 4.0 % per year

Salary Increase – Individual: Rates varying by service, as shown in

> Schedule 1. This is a change from the prior valuation, where rates varied by

age, as shown in Schedule 2.

Inflation: 4.0% per year.

Employee Contribution Interest

Crediting Rate:

8.0% per year.

Demographic Assumptions

Post-retirement mortality:

Service Retirement - General: RP-2000 Healthy Annuitant Mortality,

with adjustment for white collar workers.

Life expectancies are shown in

Schedules 3. This is a change from the prior valuation, which used 1994 Group Annuity Mortality, with ages set forward two years for male and female members.

Life Expectancies are shown in

Schedules 4.

Service Retirement - Safety: RP-2000 Healthy Annuitant Mortality,

with adjustment for blue collar workers.

Life expectancies are shown in

Schedules 5. This is a change from the prior valuation, which used 1994 Group

Annuity Mortality for males, with no age adjustment. Life Expectancies are shown in Schedules 6.

Disability Retirement:

RP-2000 Disabled Annuitant Mortality. Life expectancies are shown in

Schedules 7. This is a change from the

prior valuation, which used 1981

Disability Mortality. Life Expectancies are

shown in Schedules 8.

• Spouse:

RP-2000 Healthy Annuitant Mortality, with adjustment for white collar workers. This is a change from the prior valuation, which wood 1004 Group Annuity.

which used 1994 Group Annuity

Mortality, with ages set forward two years

for male and female beneficiaries.

Withdrawal (termination with refund of member contributions):

Rates varying by age, as shown in Schedule 9 (for General males), 11 (for General females) and 13 (for Safety). These are all changes from the prior valuation, as shown in Schedule 10 (for General males), 12 (for General females) and 14 (for Safety).

Vested Termination (termination with retirement pension deferred to age 60):

Rates varying by age, as shown in Schedule 9 (for General males), 11 (for General females) and 13 (for Safety). These are all changes from the prior valuation, as shown in Schedule 10 (for General males), 12 (for General females) and 14 (for Safety). Members are assumed to join a reciprocal agency immediately after termination.

Pre-retirement mortality:

Rates varying by age, as shown in Schedule 9 (for General males), 11 (for General females) and 13 (for Safety). These are all changes from the prior valuation, as shown in Schedule 10 (for General males), 12 (for General females) and 14 (for Safety). Separate rates for ordinary death, service related death, and death while eligible.

Service Disability: Rates varying by age, as shown in

Schedule 9 (for General males), 11 (for General females) and 13 (for Safety). These are all changes from the prior valuation, as shown in Schedule 10 (for General males), 12 (for General females)

and 14 (for Safety).

Ordinary Disability: Rates varying by age, as shown in

Schedule 9 (for General males), 11 (for General females) and 13 (for Safety). These are all changes from the prior valuation, as shown in Schedule 10 (for General males), 12 (for General females)

and 14 (for Safety).

Service Retirement: Rates varying by age, as shown in

Schedule 9 (for General males), 11 (for General females) and 13 (for Safety). These are all changes from the prior valuation, as shown in Schedule 10 (for General males), 12 (for General females)

and 14 (for Safety).

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 50% of

female active members assumed

married at retirement.

Benefit Eligibility: For decrement purposes, all active

members are considered potentially eligible for all benefits without regard to service requirements. The demographic

decrements take the eligibility requirements into account.

Spouse Ages For active members reaching retirement,

wives are assumed to be four 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 four years younger than their husbands.

Actuarial Methods

Funding Method: Entry Age Funding Method, with costs

allocated as a level percent of salary.

This is a change from the prior valuation, which was the Projected Unit Credit

Funding Method.

Amortization Period: The Unfunded Actuarial Accrued Liability due to the change in funding method is

amortized as a level percentage of payroll over a 25-year period beginning with the December 31, 2003 valuation.

The Unfunded Actuarial Accrued Liability due to all other sources is amortized as a level percentage of payroll over a 25-year period beginning with the December 31,

2002 valuation.

This is a change from the prior valuation, in which the Unfunded Actuarial Accrued Liability for all sources other than Golden Handshakes were amortized as a level percentage of payroll over a 29-year period beginning in 1992. The

amortization period for the prior valuation was 19 years.

Additional UAAL incurred through the granting of Golden Handshake agreements was amortized over a three-year period from the year in which they were granted.

Actuarial Value of Assets:

The market value of assets is adjusted to recognize, over a five-year period, investment earnings greater than (or less than) the assumed investment return. Details are shown in the Asset Information Section of the report.

The actuarial value, market value and book value are net of amounts allocated to the Supplemental Retiree Benefit Reserve and the Contingency Reserve.

Data Sources

Asset Data: The asset information is taken directly

from statements furnished by the

Retirement Office and used without audit.

Member Data: The member data is supplied by the

Retirement Office. It is reviewed for reasonableness and consistency, but no audit was performed. Public Pension Professionals is not aware of any errors or omissions in the data that would have a significant effect on the results of our

calculations.

Schedule 1

Assumed Rate of Salary Increase

Years of Service	General Members	Safety Members
0	8.00%	7.50%
1	8.00%	7.50%
2	8.00%	7.50%
3	8.00%	7.50%
4	8.00%	7.50%
5	8.00%	7.50%
6	4.75%	7.50%
7	4.75%	7.50%
8	4.75%	7.50%
9	4.75%	7.50%
10 or	4.75%	5.25%
more		

Schedule 2

Prior Year Assumed Rate of Salary Increase

Age	General Members	Safety Member
20	10.0%	8.0%
21	10.0%	7.5%
22	10.0%	7.5%
23	8.0%	7.0%
24	8.0%	7.0%
25	8.0%	7.0%
26	8.0%	6.5%
27	8.0%	6.5%
28	8.0%	6.0%
29	7.0%	6.0%
30	7.0%	6.0%
31	7.0%	6.0%
32	7.0%	6.0%
33	5.5%	6.0%
34	5.5%	6.0%
35	5.5%	5.0%
36	5.5%	5.0%
37	5.5%	5.0%
38	5.0%	5.0%
39	5.0%	5.0%
39 40	5.0%	5.0%
40 41		
	5.0%	5.0%
42 43	5.0%	5.0%
	5.0%	5.0%
44 45	5.0%	5.0%
45	5.0%	5.0%
46	5.0%	5.0%
47	5.0%	5.0%
48	5.0%	5.0%
49	5.0%	5.0%
50	5.0%	5.0%
51	5.0%	5.0%
52	5.0%	5.0%
53	5.0%	5.0%
54	5.0%	5.0%
55	5.0%	5.0%
56	5.0%	5.0%
57	5.0%	5.0%
58	5.0%	5.0%
59	5.0%	5.0%
60	5.0%	
61	5.0%	
62	5.0%	
63	5.0%	
64	5.0%	
65	5.0%	
66	5.0%	
67	5.0%	
68	5.0%	
69	5.0%	

Schedule 3

Life Expectancies at Sample Ages Nondisabled General Members

21 57.09 62.03 71 13.76 1 22 56.15 61.05 72 13.04 1 23 55.21 60.06 73 12.35 1 24 54.26 59.08 74 11.67 1 25 53.32 58.10 75 11.02 1 26 52.38 57.12 76 10.38 1 27 51.43 56.13 77 9.77 1 28 50.49 55.15 78 9.18 1 29 49.54 54.17 79 8.61 1 30 48.60 53.19 80 8.06 1 31 47.66 52.21 81 7.54 32 46.72 51.23 82 7.04 33 45.80 50.26 83 6.56 34 44.88 49.29 84 6.11 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29 </th <th>emale</th>	emale
22 56.15 61.05 72 13.04 1 23 55.21 60.06 73 12.35 1 24 54.26 59.08 74 11.67 1 25 53.32 58.10 75 11.02 1 26 52.38 57.12 76 10.38 1 27 51.43 56.13 77 9.77 1 28 50.49 55.15 78 9.18 1 29 49.54 54.17 79 8.61 1 30 48.60 53.19 80 8.06 1 31 47.66 52.21 81 7.54 32 46.72 51.23 82 7.04 33 45.80 50.26 83 6.56 34 44.88 49.29 84 6.11 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	16.98
22 56.15 61.05 72 13.04 1 23 55.21 60.06 73 12.35 1 24 54.26 59.08 74 11.67 1 25 53.32 58.10 75 11.02 1 26 52.38 57.12 76 10.38 1 27 51.43 56.13 77 9.77 1 28 50.49 55.15 78 9.18 1 29 49.54 54.17 79 8.61 1 30 48.60 53.19 80 8.06 1 31 47.66 52.21 81 7.54 32 46.72 51.23 82 7.04 33 45.80 50.26 83 6.56 34 44.88 49.29 84 6.11 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	16.23
24 54.26 59.08 74 11.67 1 25 53.32 58.10 75 11.02 1 26 52.38 57.12 76 10.38 1 27 51.43 56.13 77 9.77 1 28 50.49 55.15 78 9.18 1 29 49.54 54.17 79 8.61 1 30 48.60 53.19 80 8.06 1 31 47.66 52.21 81 7.54 1 32 46.72 51.23 82 7.04 1 33 45.80 50.26 83 6.56 1 34 44.88 49.29 84 6.11 1 35 43.96 48.32 85 5.69 3 36 43.06 47.35 86 5.29	15.26
24 54.26 59.08 74 11.67 1 25 53.32 58.10 75 11.02 1 26 52.38 57.12 76 10.38 1 27 51.43 56.13 77 9.77 1 28 50.49 55.15 78 9.18 1 29 49.54 54.17 79 8.61 1 30 48.60 53.19 80 8.06 1 31 47.66 52.21 81 7.54 1 32 46.72 51.23 82 7.04 1 33 45.80 50.26 83 6.56 1 34 44.88 49.29 84 6.11 1 35 43.96 48.32 85 5.69 3 36 43.06 47.35 86 5.29	14.54
26 52.38 57.12 76 10.38 1 27 51.43 56.13 77 9.77 1 28 50.49 55.15 78 9.18 1 29 49.54 54.17 79 8.61 1 30 48.60 53.19 80 8.06 1 31 47.66 52.21 81 7.54 1 32 46.72 51.23 82 7.04 1 33 45.80 50.26 83 6.56 1 34 44.88 49.29 84 6.11 1 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	13.84
26 52.38 57.12 76 10.38 1 27 51.43 56.13 77 9.77 1 28 50.49 55.15 78 9.18 1 29 49.54 54.17 79 8.61 1 30 48.60 53.19 80 8.06 1 31 47.66 52.21 81 7.54 1 32 46.72 51.23 82 7.04 1 33 45.80 50.26 83 6.56 1 34 44.88 49.29 84 6.11 1 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	13.16
27 51.43 56.13 77 9.77 1 28 50.49 55.15 78 9.18 1 29 49.54 54.17 79 8.61 1 30 48.60 53.19 80 8.06 1 31 47.66 52.21 81 7.54 32 46.72 51.23 82 7.04 33 45.80 50.26 83 6.56 34 44.88 49.29 84 6.11 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	12.49
28 50.49 55.15 78 9.18 1 29 49.54 54.17 79 8.61 1 30 48.60 53.19 80 8.06 1 31 47.66 52.21 81 7.54 32 46.72 51.23 82 7.04 33 45.80 50.26 83 6.56 34 44.88 49.29 84 6.11 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	11.84
30 48.60 53.19 80 8.06 1 31 47.66 52.21 81 7.54 32 46.72 51.23 82 7.04 33 45.80 50.26 83 6.56 34 44.88 49.29 84 6.11 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	11.21
31 47.66 52.21 81 7.54 32 46.72 51.23 82 7.04 33 45.80 50.26 83 6.56 34 44.88 49.29 84 6.11 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	10.59
31 47.66 52.21 81 7.54 32 46.72 51.23 82 7.04 33 45.80 50.26 83 6.56 34 44.88 49.29 84 6.11 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	10.00
32 46.72 51.23 82 7.04 33 45.80 50.26 83 6.56 34 44.88 49.29 84 6.11 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	9.43
33 45.80 50.26 83 6.56 34 44.88 49.29 84 6.11 35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	8.87
35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	8.34
35 43.96 48.32 85 5.69 36 43.06 47.35 86 5.29	7.84
	7.35
	6.90
01 42.10 40.00 01 4.92	6.47
	6.08
	5.72
	5.38
	5.08
	4.81
	4.57
	4.36
	4.17
	4.01
	3.86
	3.72
	3.59
	3.47
	3.33
	3.19
	3.05
	2.91
	2.78
56 25.91 28.65 106 2.08	2.65
	2.54
	2.44
	2.35
60 22.46 25.13 110 2.07	2.28
61 21.61 24.27 111 2.07	2.21
	2.16
	2.11
	2.06
	2.00
	1.91
	1.77
	1.54
	1.16

General Members – RP-2000 Healthy Mortality, with adjustment for white collar

Schedule 4

Prior Year Life Expectancies at Sample Ages Nondisabled General Members

Age	Male	Female	Age	Male	Female
20	57.21	61.94	70	12.98	15.76
21	56.25	60.96	71	12.35	15.03
22	55.28	59.97	72	11.75	14.31
23	54.32	58.99	73	11.16	13.61
24	53.36	58.01	74	10.58	12.93
25	52.39	57.03	75	10.02	12.26
26	51.43	56.05	76	9.48	11.61
27	50.48	55.07	77	8.96	10.99
28	49.52	54.08	78	8.47	10.38
29	48.56	53.10	79	8.01	9.80
30	47.60	52.13	80	7.57	9.24
31	46.64	51.15	81	7.15	8.70
32	45.68	50.17	82	6.74	8.18
33	44.73	49.19	83	6.36	7.68
34	43.77	48.22	84	5.98	7.21
35	42.81	47.24	85	5.62	6.75
36	41.85	46.27	86	5.28	6.33
37	40.89	45.30	87	4.95	5.92
38	39.93	44.33	88	4.65	5.55
39	38.97	43.37	89	4.37	5.20
40	38.02	42.40	90	4.11	4.87
41	37.07	41.44	91	3.87	4.57
42	36.12	40.48	92	3.65	4.29
43	35.18	39.51	93	3.45	4.03
44	34.24	38.56	94	3.27	3.78
45	33.30	37.60	95	3.11	3.56
46	32.37	36.64	96	2.96	3.35
47	31.44	35.69	97	2.83	3.15
48	30.51	34.74	98	2.71	2.98
49	29.59	33.79	99	2.59	2.81
50	28.68	32.84	100	2.48	2.66
51	27.78	31.90	101	2.37	2.52
52	26.88	30.97	102	2.27	2.39
53	25.99	30.03	103	2.18	2.28
54	25.11	29.11	104	2.12	2.20
55	24.24	28.18	105	2.07	2.13
56	23.38	27.27	106	2.04	2.08
57	22.54	26.36	107	2.02	2.04
58	21.70	25.47	108	2.01	2.02
59	20.88	24.59	109	2.00	2.00
60	20.07	23.72	110	2.00	2.00
61	19.28	22.86	111	1.99	1.99
62	18.51	22.02	112	1.98	1.98
63	17.76	21.19	113	1.97	1.97
64	17.03	20.38	114	1.94	1.94
65	16.31	19.59	115	1.88	1.88
66	15.61	18.80	116	1.75	1.75
67	14.93	18.03	117	1.50	1.50
68	14.27	17.27	118	1.00	1.00
69	13.61	16.51	-		

General Members – 1994 Group Annuity Mortality, set forward 2 years



Schedule 5

Life Expectancies at Sample Ages Nondisabled Safety Members

Age	Male	Female	Age	Male	Female
20	56.26	61.99	70	13.31	15.77
21	55.31	61.00	71	12.66	15.05
22	54.36	60.02	72	12.03	14.36
23	53.42	59.03	73	11.41	13.69
24	52.47	58.04	74	10.81	13.03
25	51.52	57.06	75	10.23	12.40
26	50.57	56.07	76	9.66	11.77
27	49.62	55.08	77	9.12	11.17
28	48.67	54.10	78	8.60	10.57
29	47.72	53.11	79	8.09	10.00
30	46.77	52.13	80	7.61	9.43
31	45.82	51.15	81	7.15	8.89
32	44.88	50.16	82	6.71	8.37
33	43.95	49.19	83	6.29	7.87
34	43.02	48.21	84	5.89	7.40
35	42.10	47.23	85	5.52	6.95
36	41.18	46.26	86	5.17	6.53
37	40.27	45.29	87	4.83	6.14
38	39.36	44.32	88	4.53	5.78
39	38.46	43.35	89	4.24	5.45
40	37.56	42.38	90	3.98	5.15
41	36.67	41.42	91	3.74	4.88
42	35.78	40.45	92	3.52	4.64
43	34.89	39.49	93	3.32	4.42
44	34.01	38.54	94	3.14	4.23
45	33.13	37.58	95	2.97	4.05
46	32.26	36.63	96	2.82	3.89
47	31.39	35.69	97	2.69	3.75
48	30.53	34.74	98	2.57	3.62
49	29.68	33.80	99	2.47	3.49
50	28.83	32.86	100	2.37	3.37
51	27.99	31.93	101	2.29	3.24
52	27.16	30.99	102	2.23	3.10
53	26.32	30.05	103	2.18	2.96
54	25.49	29.12	104	2.14	2.82
55	24.67	28.19	105	2.12	2.69
56	23.84	27.27	106	2.12	2.57
57	23.02	26.36	107	2.12	2.46
58	22.21	25.45	108	2.11	2.36
59	21.40	24.56	109	2.11	2.28
60	20.61	23.69	110	2.11	2.20
61	19.82	22.83	111	2.10	2.14
62	19.05	21.98	112	2.09	2.09
63	18.28	21.16	113	2.07	2.04
64	17.53	20.34	114	2.04	2.00
65	16.79	19.55	115	1.98	1.94
66	16.06	18.76	116	1.90	1.86
67	15.35	17.99	117	1.76	1.73
68	14.65	17.24	118	1.53	1.51
69	13.97	16.49	119	1.15	1.15

Safety Members - RP-2000 Healthy Mortality, with adjustment for blue collar

Schedule 6

Prior Year Life Expectancies at Sample Ages Nondisabled Safety Members

Age	Male	Age	Male
20	59.15	70	14.27
21	58.18	71	13.61
22	57.21	72	12.98
23	56.25	73	12.35
24	55.28	74	11.75
25	54.32	75	11.16
26	53.36	76	10.58
27	52.39	77	10.02
28	51.43	78	9.48
29	50.48	79	8.96
30	49.52	80	8.47
31	48.56	81	8.01
32	47.60	82	7.57
33	46.64	83	7.15
34	45.68	84	6.74
35	44.73	85	6.36
36	43.77	86	5.98
37	42.81	87	5.62
38	41.85	88	5.28
39	40.89	89	4.95
40	39.93	90	4.65
41	38.97	91	4.37
42	38.02	92	4.11
43	37.07	93	3.87
44	36.12	94	3.65
45	35.18	95	3.45
46	34.24	96	3.27
47	33.30	97	3.11
48	32.37	98	2.96
49	31.44	99	2.83
50	30.51	100	2.71
51	29.59	101	2.59
52	28.68	102	2.48
53	27.78	103	2.37
54	26.88	104	2.27
55	25.99	105	2.18
56	25.11	106	2.12
57	24.24	107	2.07
58	23.38	108	2.04
59	22.54	109	2.02
60	21.70	110	2.01
61	20.88	111	2.00
62	20.07	112	2.00
63	19.28	113	1.99
64 65	18.51	114 115	1.98
65 66	17.76	115 116	1.97
66 67	17.03	116	1.94
67	16.31 15.61	117	1.88 1.75
68	15.61		
69	14.93	119	1.50

Safety Members – 1994 Group Annuity Mortality, males



Schedule 7

Life Expectancies at Sample Ages Disabled General and Safety Members

Age	Male	Female	Age	Male	Female
20	30.81	46.81	70	9.81	12.98
21	30.51	46.16	71	9.43	12.46
22	30.20	45.50	72	9.05	11.96
23	29.89	44.84	73	8.69	11.47
24	29.57	44.17	74	8.33	11.00
25	29.24	43.50	75	7.99	10.53
26	28.90	42.82	76	7.65	10.09
27	28.55	42.14	77	7.33	9.65
28	28.20	41.45	78	7.02	9.23
29	27.84	40.76	79	6.72	8.81
30	27.47	40.06	80	6.43	8.42
31	27.09	39.36	81	6.16	8.03
32	26.70	38.65	82	5.89	7.66
33	26.31	37.93	83	5.63	7.29
34	25.90	37.22	84	5.38	6.94
35	25.49	36.49	85	5.14	6.61
36	25.07	35.76	86	4.90	6.28
37	24.63	35.03	87	4.66	5.97
38	24.19	34.28	88	4.41	5.67
39	23.73	33.54	89	4.16	5.39
40	23.27	32.78	90	3.90	5.12
41	22.79	32.03	91	3.65	4.87
42	22.31	31.26	92	3.43	4.63
43	21.81	30.49	93	3.23	4.40
44	21.30	29.72	94	3.04	4.20
45	20.78	28.94	95	2.88	4.02
46	20.25	28.15	96	2.73	3.85
47	19.73	27.38	97	2.60	3.71
48	19.23	26.62	98	2.49	3.58
49	18.73	25.88	99	2.38	3.46
50	18.25	25.15	100	2.29	3.33
51	17.78	24.44	101	2.21	3.20
52	17.32	23.74	102	2.15	3.07
53	16.86	23.06	103	2.10	2.93
54	16.42	22.39	104	2.06	2.79
55	15.98	21.73	105	2.05	2.66
56	15.55	21.09	106	2.04	2.54
57	15.12	20.46	107	2.04	2.43
58	14.69	19.83	108	2.04	2.34
59	14.27	19.22	109	2.04	2.25
60	13.86	18.62	110	2.03	2.18
61	13.44	18.02	111	2.03	2.11
62	13.03	17.43	112	2.02	2.06
63	12.61	16.85	113	2.00	2.02
64	12.20	16.27	114	1.97	1.98
65	11.80	15.70	115	1.93	1.93
66	11.39	15.14	116	1.85	1.85
67	10.99	14.58	117	1.72	1.72
68	10.59	14.04	118	1.50	1.50
69	10.20	13.50	119	1.14	1.14

Disabled Members - RP-2000 Disabled Mortality

Schedule 8

Prior Year Life Expectancies at Sample Ages Disabled Members

Age	General Members	Safety Members
20	35.69	49.79
21	35.03	48.89
22	34.37	47.98
23	33.73	47.08
24	33.10	46.18
25	32.48	45.29
25 26	32.46 31.87	45.29 44.39
26 27	31.26	43.51
28	30.67	42.62
29	30.08	41.74
30	29.50	40.86
31	28.93	39.98
32	28.37	39.11
33	27.81	38.24
34	27.26	37.38
35	26.71	36.52
36	26.17	35.66
37	25.64	34.81
38	25.11	33.95
39	24.59	33.11
40	24.07	32.27
41	23.56	31.43
42	23.06	30.59
43	22.56	29.76
44	22.07	28.93
45	21.58	28.11
46	21.09	27.30
47	20.61	26.48
48	20.13	25.68
49	19.66	24.88
50	19.18	24.09
51	18.71	23.30
52	18.25	22.53
53	17.79	21.76
54	17.33	21.00
55	16.87	20.27
56	16.41	19.56
57	15.95	18.90
58	15.49	18.28
59	15.03	17.70
60	14.57	17.14
61	14.10	16.61
62	13.63	16.09
63	13.16	15.58
64	12.68	15.08
65	12.20	14.59
66	11.71	14.11
67	11.22	13.63
68	10.72	13.16
69	10.23	12.68
00	10.20	12.00

General Members – 1981 Disability Mortality

Safety Members – 1981 Disability Mortality for Safety



Schedule 9

Probability of Separation from Active Service

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

General Members - Male

	Ordinary				Death			
	Withdrawal	Vested	Ordinary	Service	While	Ordinary	Service	Service
Age	(Refund)	Termination	Death	Death	Eligible	Disability	Disability	Retirement
20	1,050	200	10	-	9	-	-	-
21	1,087	200	10	-	-	_	-	-
22	1,122	200	10	-	-	_	-	_
23	1,156	200	10	-	-	-	-	_
24	1,188	200	11	-	-	_	-	-
25	1,217	200	11	_	-	2	3	-
26	1,245	200	11	-	-	2	3	-
27	1,269	200	11	-	-	2	3	-
28	1,292	200	11	-	-	2	3	-
29	1,311	200	12	-	-	2	3	-
30	1,327	200	12	-	-	2	3	-
31	1,341	200	14	-	-	3	5	-
32	1,351	200	16	-	-	3	5	-
33	1,358	200	18	-	-	3	5	-
34	1,361	200	20	-	-	4	6	-
35	1,361	200	22	-	-	4	6	-
36	1,358	200	24	-	-	5	8	-
37	1,351	200	25	-	-	5	8	-
38	1,341	200	27	-	-	6	9	-
39	1,327	200	29	-	-	7	11	-
40	1,311	200	30	-	-	8	13	-
41	1,291	200	32	-	-	10	14	-
42	1,268	200	34	-	-	11	17	-
43	1,243	200	36	-	-	13	19	-
44	1,215	200	39	-	-	14	22	-
45	1,185	200	42	-	-	16	24	-
46	1,152	200	45	-	-	18	27	-
47	1,118	200	49	-	-	20	30	-
48	1,081	200	52	-	-	22	33	-
49	1,043	200	56	-	-	24	36	-
50	1,004	200	60	-	-	26	39	500
51	964	200	60	-	-	28	42	400
52	923	200	59	-	-	30	45	400
53	882	200	57	-	-	34	51	400
54	840	200	56	-	-	38	57	400
55	798	200	54	-	-	42	63	1,200
56	756	200	54	-	-	47	71	900
57	714	200	55 57	-	-	52	78	1,200
58	673	200	57	-	-	57	86	1,400
59	633	200	61	-	-	61	92	1,600
60	593	200	66	-	-	65 70	98	2,000
61	555 547	200	73	-	-	70 74	105	2,500
62	517	200	82	-	-	74 77	111	2,500
63	481 446	200	92 104	-	-	77 91	116	2,500
64 65	446	200	104 116	<u>-</u>	-	81 -	122 -	2,500
65 66	-	-	130	-	-	-	-	3,000 3,000
66 67	-	- -	144	<u>-</u>	-	-	-	3,000
67 68	-	-	158	-	-	-	-	3,000
69	-	•	174	-	<u>-</u>	-	-	3,000
69 70	-	-	-	-	-	-	-	10,000
70	_	_	-	_	_	_	_	10,000

Schedule 10

Prior Year Probability of Separation from Active Service (Number separating at each age per 10,000 working at that age) General Members - Male

Age	Ordinary Withdrawal (Refund)	Vested Termination	Ordinary Death	Service Death	Death While Eligible	Ordinary Disability	Service Disability	Service Retirement
20	2,340	125	3	1	-	-	1	-
21	2,025	125	3	1	-	-	1	-
22	1,755	125	3	1	-	-	1	-
23	1,530	125	3	1	-	-	1	-
24	1,440	125	3	1	-	-	1	-
25	1,350	125	3	1	1	2	1	-
26	1,269	125	3	1	1	2	1	-
27	1,197	125	3	1	1	2	1	-
28	1,134	125	3	1	1	2	1	-
29	1,080	125	3	1	1	2	1	-
30	1,026	125	4	1	1	2	2	-
31	963	125	4	1	1	3	2	-
32	900	125	4	1	1	3	2	-
33	837	125	4	1	1	3	2	-
34	783	125	4	1	1	4	2	-
35	738	125	5	1	2	4	2	-
36	711	125	5	1	2	5	4	-
37	684	125	5	1	2	5	6	-
38	657	125	6	1	2	6	8	-
39	630	125	6	1	3	7	10	-
40	585	125	7	1	3	12	12	-
41	531	125	8	1	3	14	14	-
42	477	125	9	1	3	16	17	-
43	432	125	10	1	4	17	19	-
44	396	125	11	1	4	18	22	-
45	360	125	12	2	5	19	24	-
46	350	125	13	2	6	19	27	-
47	338	125	14	2	8	20	30	-
48	317	125	15	2	10	22	33	-
49 50	300	125	16	2 2	12	24	35	-
50	300	125	17		14	26	38	500
51	300	125	19	2	16	28	39	400
52	300	125	20	2 2	18	30	42	400
53	300	125	21		20	34	44	400
54	300	125	23	2 3	22	38 42	46	400
55 56	300 270	125 125	25 27	3	24 27	42 47	49 51	1,200 900
57	240	125	29	3	30	52	54	1,200
58	210	125	31	3	33	52 57	5 4 56	1,400
59	180	125	33	3	36	61	59	1,400
60	150	125	35	4	39	65	62	2,000
61	120	125	35 37	4	42	70	66	2,500
62	90	125	39	5	46	74	69	3,500
63	60	125	41	5	50	77	72	2,500
64	30	125	43	6	50 54	81	72 75	2,500
65	- -	-	45 45	6	58	-	75 80	4,000
66	_	_	47	7	62	_	-	3,000
67	<u>-</u>	-	49	8	66	-	-	3,000
68	-	-	51	9	70	-	-	3,000
69	_	_	53	10	74	_	_	3,000
70	_	_	-	-	-	_	_	10,000
70	-	-	-	-	-	-	-	10,000

Schedule 11

Probability of Separation from Active Service

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

General Members - Female

	Ordinary				Death			
	Withdrawal	Vested	Ordinary	Service	While	Ordinary	Service	Service
Age	(Refund)	Termination	Death	Death	Eligible	Disability	Disability	Retirement
20	930	190	3	-	9.5.0	1	1	-
21	965	190	3	-	-	1	1	-
22	1,000	190	3	-	-	1	1	-
23	1,034	190	3	-	_	1	1	-
24	1,067	190	3	-	_	1	1	-
25	1,099	190	3	-	_	2	2	-
26	1,130	190	3	-	-	2	2	-
27	1,159	190	3	-	-	2	2	-
28	1,187	190	3	-	-	2	2	-
29	1,213	190	4	-	-	2	2	-
30	1,238	190	4	-	-	2	3	-
31	1,260	190	4	-	-	2	3	-
32	1,280	190	5	-	-	2	3	-
33	1,298	190	6	-	-	2	3	-
34	1,313	190	6	-	-	2	3	-
35	1,327	190	7	-	-	4	6	-
36	1,337	190	8	-	-	6	8	-
37	1,345	190	8	-	-	7	11	-
38	1,351	190	9	-	-	9	13	-
39	1,353	190	9	-	-	10	16	-
40	1,353	190	10	-	-	12	18	-
41	1,351	190	11	-	-	13	20	-
42	1,345	190	12	-	-	14	22	-
43	1,337	190	14	-	-	16	23	-
44	1,326	190	15	-	-	17	25	-
45	1,313	190	16	-	-	18	27	-
46	1,297	190	18	-	-	19	29	-
47	1,279	190	19	-	-	20	31	-
48	1,259	190	21	-	-	22	32	-
49	1,236	190	23	-	-	23	34	-
50	1,211	190	24	-	-	24	36	500
51	1,185	190	25	-	-	24	37	500
52	1,156	190	27	-	-	25	37	500
53	1,126	190	29	-	-	25	38	500
54	1,095	190	32	-	-	26	38	500
55	1,062	190	35	-	-	26	39	600
56	1,028	190	39	-	-	26	40	800
57	993	190	43	-	-	27	40	1,000
58	957	190	47 54	-	-	27	41	1,200
59	921	190	51 56	-	-	28	41 42	1,400
60	884	190		-	-	28		1,700
61	847 810	190 190	61 67	-	-	28 29	43 43	2,000 3,000
62	772	190	74	-	-	29	43 44	3,000
63	772 735	190	82	-	-	30	44	3,000
64 65		190	91	-	-	30	44 45	
65 66	<u>-</u>	-	101	-	-	-	45 -	3,000 3,000
66 67	-	-	112	-	-	-	-	3,000
67 68	-	-	124	-	-	-	-	3,000
69	_	<u>-</u>	137	-	-	<u>-</u>	-	3,000
69 70	_	-	-	-	-	-	-	10,000
10	-	<u>-</u>	-	-	-	-	-	10,000

Ordinary

Schedule 12

Prior Year Probability of Separation from Active Service (Number separating at each age per 10,000 working at that age) General Members - Female

	Ordinary				Death			
	Withdrawal	Vested	Ordinary	Service	While	Ordinary	Service	Service
Age	(Refund)	Termination	Death	Death	Eligible	Disability	Disability	Retirement
20	2,385	125	2	-	9	-	2	-
21	2,205	125	2	_	_	_	2	_
22	2,070	125	2	_	_	_	2	_
23	1,935	125	2	_	_	_	2	_
24	1,800	125	2				2	
25	1,710	125	2	-	1	3	2	-
26	1,620	125	2	-	1	3	2	-
27	1,530	125	2	_	1	3	2	_
			2	-	1	3 4	2	-
28 29	1,440 1,350	125 125	3	-	1	4	2	-
				-		4	2	-
30	1,269	125	3	-	1			-
31	1,197	125	3	-	1	5	2	-
32	1,125	125	3	-	1	5	2	-
33	1,062	125	3	-	1	6	2	-
34	999	125	3	-	1	7	2	-
35	945	125	3	-	1	8	2	-
36	900	125	4	-	1	9	2	-
37	855	125	4	-	1	10	4	-
38	819	125	4	-	1	11	4	-
39	774	125	4	-	1	12	6	-
40	729	125	4	-	1	14	6	-
41	684	125	5	-	1	16	6	-
42	639	125	6	-	1	18	8	-
43	594	125	7	-	1	20	10	-
44	549	125	8	-	1	23	14	-
45	504	125	9	-	2	25	14	-
46	469	125	10	-	2	27	17	-
47	432	125	12	-	2	29	20	-
48	394	125	14	-	2	31	24	-
49	300	125	15	-	2	34	27	-
50	300	125	17	-	2	38	29	500
51	300	125	19	-	2	42	30	400
52	300	125	20	-	3	48	34	400
53	300	125	22	-	3	55	38	400
54	300	125	24	-	4	63	40	400
55	300	125	26	-	4	71	41	1,200
56	270	125	27	-	5	79	43	900
57	240	125	29	-	6	86	44	1,200
58	210	125	31	-	7	93	48	1,400
59	180	125	32	-	8	99	51	1,600
60	150	125	34	-	9	106	54	1,700
61	120	125	36	-	10	111	57	1,900
62	90	125	37	-	11	116	59	3,000
63	60	125	39	_	12	119	62	2,500
64	30	125	41	_	13	122	64	2,500
65	-	-	43	_	14	-	67	4,000
66	-	_	44	_	15	-	-	3,000
67	_	_	46	_	16	_	_	3,000
68	-	_	48	-	17	-	_	3,000
69	_	_	50	_	18	_	_	3,000
70	_	_	-	_	-	_	_	10,000
70	_	_	_	_	_	_	_	10,000

Schedule 13

Probability of Separation from Active Service

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

Safety Members

	Ordinary				Death			
	Withdrawal	Vested	Ordinary	Service	While	Ordinary	Service	Service
Age	(Refund)	Termination	Death	Death	Eligible	Disability	Disability	Retirement
20	300	70	9	2	٠.	-	3	-
21	305	70	9	2	-	-	5	-
22	309	70	10	2	-	-	7	-
23	314	70	10	2	-	-	9	-
24	318	70	10	2	-	-	11	-
25	323	70	10	2	-	-	13	-
26	328	70	10	2	-	-	16	-
27	333	70	10	2	-	-	19	-
28	338	70	10	2	-	-	22	-
29	343	70	11	2	-	-	25	-
30	348	70	12	2	-	-	28	-
31	353	70	13	2	-	-	32	-
32	359	70	15	2	-	-	36	-
33	364	70	17	2	-	-	40	-
34	370	70	18	2	-	-	44	-
35	375	70	20	2	-	-	48	-
36	381	70	22	2	-	-	54	-
37	386	70	24	2	-	-	60	-
38	392	70	25	2	-	-	66	-
39	398	70	27	2	-	-	72	-
40	404	70	28	2	-	-	78	-
41	410	70	30	2	-	-	90	-
42	416	70	32	2	-	-	102	-
43	423	70	34	2	-	-	114	-
44	429	70	37	2	-	-	126	-
45	435	70	39	2	-	-	138	100
46	442	70	42	2	-	-	150	50
47	448	70	45	2	-	-	162	50
48	455	70	49	2	-	-	174	100
49	462	70	52	2	-	-	186	200
50	469	70	56	2	-	-	198	1,000
51	476	70	59	2	-	-	216	600
52	483	70	63	2	-	-	234	700
53	490	70	66	2	-	-	252	800
54	498	70	69	2	-	-	270	1,500
55	-	-	72	2	-	-	288	2,500
56	-	-	77	2	-	-	306	2,500
57	-	-	82	2	-	-	324	2,500
58	-	-	89	2	-	-	342	2,500
59	-	-	97	2	-	-	360	2,500
60	-	-	-	-	-	-	-	10,000

Schedule 14

Prior Year Probability of Separation from Active Service (Number separating at each age per 10,000 working at that age) Safety Members

	Ordinary				Death			
	Withdrawal	Vested	Ordinary	Service	While	Ordinary	Service	Service
Age	(Refund)	Termination	Death	Death	Eligible	Disability	Disability	Retirement
20	1,000	35	2	2	-	-	10	-
21	900	35	2	2	1	-	11	-
22	800	35	2	2	1	-	12	-
23	700	35	2	2	1	-	13	-
24	600	35	2	2	1	-	14	-
25	550	35	2	2	1	10	16	-
26	500	35	2	2	1	10	18	-
27	450	35	2	2	1	10	20	-
28	400	35	2	3	1	10	22	-
29	350	35	2	3	1	10	25	-
30	348	35	3	3	2	10	30	-
31	338	35	3	3	2	10	36	-
32	328	35	3	3	2	10	44	-
33	318	35	3	3	2	15	51	-
34	308	35	3	4	2	15	58	-
35	296	35	3	4	3	20	65	-
36	285	35	3	4	3	20	71	-
37	273	35	3	4	4	25	77	-
38	262	35	3	4	4	25	84	-
39	250	35	3	5	4	27	91	-
40	238	35	4	5	5	29	74	-
41	227	35	4	5	5	31	79	-
42	215	35	4	5	6	33	85	-
43	204	35	4	5	6	35	93	-
44	192	35	4	5	7	35	100	-
45	180	35	5	6	7	37	105	100
46	169	35	5	6	8	37	110	50
47	157	35	5	6	8	40	115	50
48	146	35	6	6	9	43	119	100
49	134	35	6	6	11	45	124	250
50	122	35	7	6	13	48	128	800
51	116	35	8	7	16	50	133	600
52	110	35	9	7	19	55	137	700
53	105	35	10	8	22	58	141	800
54	100	35	11	8	25	60	146	900
55	-	-	12	8	29	65	150	3,500
56	-	-	13	9	34	68	154	1,750
57	-	-	14	10	39	70	158	3,000
58	-	-	15	10	44	73 70	161	3,250
59	-	-	16	11	49	78	165	3,750
60	-	-	-	-	-	-	-	10,000

J. Member Information

Active Participants

General Members

County	December 31, 2002	December 31, 2001
Number	6,042	6,043
Average Age	44.8	44.4
Average Service	9.7	9.4
Percent Male	29.9%	30.2%
Average Annual Pay	\$40,217	\$38,736
Total Covered Payroll	\$242,991,199	\$234,082,912

Districts Electing

MOU	December 31, 2002	December 31, 2001
Number	137	136
Average Age	46.3	45.8
Average Service	10.5	10.4
Percent Male	73.7%	74.3%
Average Annual Pay	\$51,360	\$48,644
Total Covered Payroll	\$7,036,417	\$6,615,579

Districts Not Electing MOL

Electing MOU	December 31, 2002	December 31, 2001
Number	235	218
Average Age	41.4	41.7
Average Service	6.1	6.0
Percent Male	66.0%	67.4%
Average Annual Pay	\$46,954	\$45,744
Total Covered Payroll	\$11,034,188	\$9,972,275

Total General	December 31, 2002	December 31, 2001
Number	6,414	6,397
Average Age	44.7	44.3
Average Service	9.6	9.3
Percent Male	32.2%	32.4%
Average Annual Pay	\$40,702	\$39,186
Total Covered Payroll	\$261,061,804	\$250,670,766

Safety Members

	December 31, 2002	December 31, 2001
Number	1,641	1,658
Average Age	40.5	40.8
Average Service	12.2	12.5
Percent Male	82.8%	82.2%
Average Annual Pay	\$51,072	\$50,133
Total Covered Payroll	\$83,809,133	\$83,120,619

Total Active Members

	December 31, 2002	December 31, 2001
Number	8,055	8,055
Average Age	43.9	43.6
Average Service	10.2	9.9
Percent Male	42.5%	42.6%
Average Annual Pay	\$42,815	\$41,439
Total Covered Payroll	\$344,870,937	\$333,791,385

Terminated Vested Participants

General Members

	December 31, 2002	December 31, 2001
Number	759	738
Average Age	46.6	46.2
Percent Male	42.2%	42.3%

Safety Members

	December 31, 2002	December 31, 2001
Number	93	85
Average Age	43.3	43.2
Percent Male	76.3%	75.3%

All Members

	December 31, 2002	December 31, 2001
Number	852	823
Average Age	46.2	45.9
Percent Male	45.9%	45.7%

Retired Participants

General Members

Service Retirements and Beneficiaries	December 31, 2002	December 31, 2001
Number	2,947	2,910
Average Age	71.2	71.2
Percent Male	35.2%	35.7%
Average Monthly Benefit	\$1,141	\$1,065

Disabled	December 31, 2002	December 31, 2001
Number	551	525
Average Age	61.4	60.8
Percent Male	35.8%	36.2%
Average Monthly Benefit	\$1,087	\$1,049

Total General	December 31, 2002	December 31, 2001
Number	3,498	3,435
Average Age	69.6	69.6
Percent Male	35.3%	35.7%
Average Monthly Benefit	\$1,132	\$1,062

Safety Members

Service Retirements and Beneficiaries	December 31, 2002	December 31, 2001
Number	647	585
Average Age	65.4	65.9
Percent Male	74.5%	73.7%
Average Monthly Benefit	\$2,759	\$2,411

Disabled	December 31, 2002	December 31, 2001
Number	371	352
Average Age	58.2	57.8
Percent Male	72.5%	73.0%
Average Monthly Benefit	\$2,243	\$2,095

Total Safety	December 31, 2002	December 31, 2001
Number	1,018	937
Average Age	62.8	62.9
Percent Male	73.8%	73.4%
Average Monthly Benefit	\$2,571	\$2,292

Total Members

Service Retirements and Beneficiaries	December 31, 2002	December 31, 2001
Number	3,594	3,495
Average Age	70.2	70.3
Percent Male	42.3%	42.0%
Average Monthly Benefit	\$1,432	\$1,290

Disabled	December 31, 2002	December 31, 2001
Number	922	877
Average Age	60.1	59.6
Percent Male	50.5%	51.0%
Average Monthly Benefit	\$1,552	\$1,469

Total Retirees	December 31, 2002	December 31, 2001
Number	4,516	4,372
Average Age	68.1	68.2
Percent Male	44.0%	43.8%
Average Monthly Benefit	\$1,457	\$1,326

Reconciliation of Participants

General Members

	Actives	Terminated <u>Vested</u>	Service Retirees and Beneficiaries	Disability Retirees and Beneficiaries
As of December 31, 2001	6,397	738	2,910	525
New Hires/Rehires	510	(6)		
Net Transfers to Safety	(8)			
Terminated Non-vested / Refund	(297)			
Vested Terminations	(45)	45		
Suspended	(15)	(1)		
Service Retirements	(106)	(20)	126	
Disability Retirements	(18)		(13)	30
Active Deaths	(3)		3	
Deaths Or Ceased Payments			(119)	(11)
Beneficiaries Of Retirees Who Died			32	4
Other	(1)	3	8	3
As of December 31, 2002	6,414	759	2,947	551

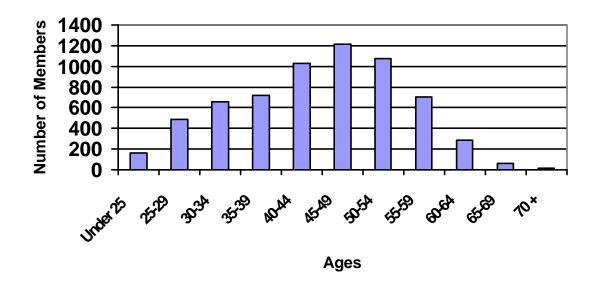
Safety Members

	Actives	Terminated <u>Vested</u>	Service Retirees and Beneficiaries	Disability Retirees and Beneficiaries
As of December 31, 2001	1,658	85	585	352
New Hires/Rehires	97			
Net Transfers From General	8			
Terminated Non-vested / Refund	(21)			
Vested Terminations	(6)	6		
Service Retirements	(67)	(1)	67	
Disability Retirements	(18)			18
Active Deaths				
Deaths Or Ceased Payments			(19)	(3)
Beneficiaries Of Retirees Who Died			9	3
Other	(10)	3	5	1
As of December 31, 2002	1,641	93	647	371

Active General Members by Age and Service as of December 31, 2002

Service	Unde								
>>	r 1	1-4	5-9	10-14	15-19	20-24	25-29	30 +	Total
<u>Age</u> Under									
25	61	101	0	0	0	0	0	0	162
25-29	97	358	30	1	0	0	0	0	486
30-34	76	408	129	43	2	0	0	0	658
35-39	73	288	167	135	54	3	0	0	720
40-44	60	298	199	225	169	77	2	0	1,030
45-49	54	259	223	266	172	179	57	3	1,213
50-54	40	237	182	202	157	129	91	37	1,075
55-59	17	134	118	142	99	73	63	59	705
60-64	7	57	57	69	39	24	13	18	284
65-69	2	6	17	12	8	10	5	1	61
70 +	1	2	0	5	4	1	4	3	20
Total	488	2,148	1,122	1,100	704	496	235	121	6,414

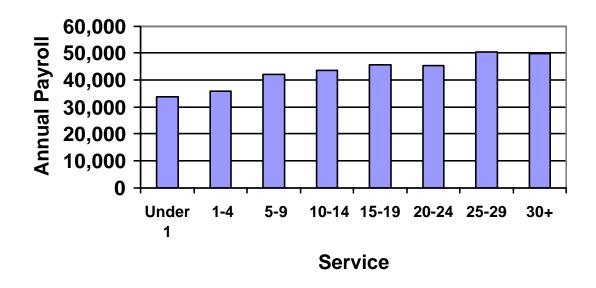
Active General Members by Age



Average Annual Compensation for General Members by Age and Service as of December 31, 2002

Service	Unde								
>>	r 1	1-4	5-9	10-14	15-19	20-24	25-29	30 +	Total
<u>Age</u>									
Under									
25	26,924	26,528	0	0	0	0	0	0	26,677
25-29	33,123	33,404	32,452	30,049	0	0	0	0	33,283
30-34	35,014	36,502	42,845	36,609	26,397	0	0	0	37,550
35-39	33,038	36,659	39,437	42,822	39,669	30,976	0	0	38,294
40-44	30,535	36,162	41,699	44,801	45,247	38,720	34,382	0	40,470
45-49	37,361	36,787	43,617	43,175	48,987	46,205	49,456	35,788	43,182
50-54	41,050	37,856	42,484	45,520	46,491	46,364	52,507	42,221	43,871
55-59	33,029	36,566	46,802	42,661	46,184	52,199	51,034	53,621	45,111
60-64	52,133	37,810	38,805	42,897	40,725	44,076	37,841	55,543	41,654
65-69	53,667	47,689	41,765	45,719	38,784	31,563	50,569	31,586	42,007
70 +	20,911	33,400	0	35,638	37,445	25,615	58,843	54,677	42,035
T - 4 - 1									
Total	33,759	35,741	42,146	43,536	45,720	45,435	50,473	49,823	40,698

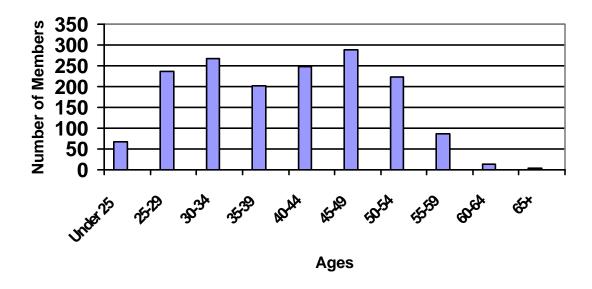
General Member Pay by Service



Active Safety Members by Age and Service as of December 31, 2002

Service >>	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30 +	Total
<u>Age</u> Under									
25	22	45	0	0	0	0	0	0	67
25-29	26	174	36	1	0	0	0	0	237
30-34	18	137	87	26	0	0	0	0	268
35-39	9	51	45	64	32	1	0	0	202
40-44	3	25	27	50	107	36	0	0	248
45-49	2	10	14	27	67	111	58	0	289
50-54	1	5	18	21	37	47	86	9	224
55-59	1	2	6	13	19	13	21	12	87
60-64	1	3	3	0	1	0	3	3	14
65-69	0	0	1	3	0	0	0	0	4
70 +	0	0	0	0	0	0	1	0	1
Total	83	452	237	205	263	208	169	24	1,641

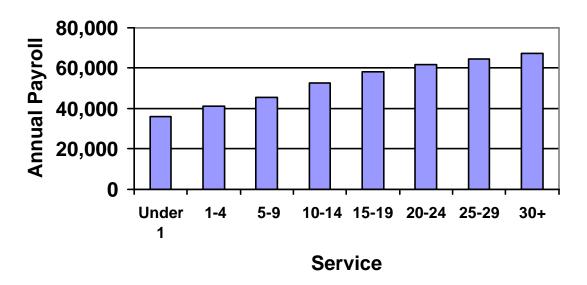
Active Safety Members by Age



Average Annual Compensation for Safety Members by Age and Service as of December 31, 2002

Service >>	Unde r 1	1-4	5-9	10-14	15-19	20-24	25-29	30 +	Total
<u>Age</u> Under									
25	35,756	38,485	0	0	0	0	0	0	37,589
25-29	33,917	40,445	44,190	47,062	0	0	0	0	40,325
30-34	36,602	42,027	46,464	49,548	0	0	0	0	43,833
35-39	42,096	43,623	45,792	54,607	58,564	79,185	0	0	50,061
40-44	40,283	42,243	45,042	52,945	58,593	61,515	0	0	54,533
45-49	37,747	43,154	46,098	52,878	57,877	61,629	66,252	0	59,313
50-54	29,797	41,838	43,638	52,821	59,948	60,801	64,610	66,025	59,644
55-59	28,347	40,201	44,830	46,265	53,738	61,952	59,971	69,690	56,336
60-64	38,620	45,879	43,921	0	43,883	0	63,072	62,588	52,063
65-69	0	0	34,331	45,388	0	0	0	0	42,624
70 +	0	0	0	0	0	0	47,545	0	47,545
Total	36.136	41.298	45.468	52.449	58.191	61.527	64.469	67.428	51.072

Safety Member Pay by Service



K. Actuarial Certification

The valuation has been conducted in accordance with generally accepted actuarial principles and practices.

The actuarial assumptions employed in the development of the recommended contribution rates were selected to be individually reasonable (taking into account the experience of the Plan and reasonable expectations) and which, in combination, offer the actuary's best estimate of anticipated experience under the Plan.

Ira M. Summer, F.S.A, E.A.

Public Pension Professionals, Inc.

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Deanna Van Valer, A.S.A, E.A. Public Pension Professionals, Inc.

Deanna D. Van Valer

June 2003