# Employees' Retirement System of the City of Kansas City, Missouri

Actuarial Valuation and Review as of May 1, 2004

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September 20, 2004

Board of Trustees Employees' Retirement System of the City of Kansas City, Missouri Kansas City, Missouri

Dear Board Members:

We are pleased to submit this Actuarial Valuation and Review as of May 1, 2004. It summarizes the actuarial data used in the valuation, establishes the funding requirements for fiscal 2004 and analyzes the preceding year's experience.

The census information on which our calculations were based was prepared by the Retirement System. That assistance is gratefully acknowledged. The actuarial calculations were completed under our supervision.

This actuarial valuation has been completed in accordance with generally accepted actuarial principles and practices. To the best of our knowledge, the information supplied in this actuarial valuation is complete and accurate. Further, in our opinion, the assumptions as approved by the Board are reasonably related to the experience of and the expectations for the System.

We look forward to reviewing this report at your next meeting and to answering any questions.

Sincei	ety,	
THE S	SEGAL COMPANY	
By:		
	Leslie L. Thompson, FSA, MAAA, EA	Wally Malles, ASA, MAAA, EA
	Senior Vice President and Actuary	Assistant Actuary

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## **Purpose**

This report has been prepared by The Segal Company to present a valuation of the Employees' Retirement System of the City of Kansas City, Missouri as of May 1, 2004. The valuation was performed to determine whether the assets and contributions are sufficient to provide the prescribed benefits. The contribution requirements presented in this report are based on:

- > The benefit provisions of the Retirement System, as administered by the Board;
- > The characteristics of covered active members, inactive vested members, pensioners and survivors as of May 1, 2004, provided by the Board;
- > The assets of the System as of April 30, 2004, provided by the Retirement System;
- > Economic assumptions regarding future salary increases and investment earnings; and
- > Other actuarial assumptions, regarding employee terminations, retirement, death, etc.

#### **Significant Issues in Valuation Year**

The following key findings were the result of this actuarial valuation:

- > The expected contribution shortfall (the annual recommended contribution less the expected contribution) is approximately \$8.8 million. Last year the expected contribution shortfall was also approximately \$8.8 million.
- > The City total cost for the General Employees is 16.91% of General Employees' payroll. The total scheduled City contribution is 10.53% of General Employees' payroll, of which 2.53% is for the retirement window offered in 2003. The retirement window contribution is projected to be paid annually through April 30, 2013.
- > The City total cost for the Judges and Elected Officials is 30.82% of payroll for Judges and Elected Officials. The scheduled City contribution is 19.50% of payroll for Judges and Elected Officials.
- > Under the current funding policy, benefit costs are not being met. We understand the Board is working on strategies to overcome this, such as increasing the scheduled City contribution rates for the General Employees. As of May 1, 2005, the scheduled City contribution for the General Employees is expected to be increased by an additional 1.50% of payroll.
- > For the year ended April 30, 2004, the plan's cash flow became negative for the first time. Benefit payments now exceed the sum of total contributions and net interest and dividends.
- > As of May 1, 2003 the actuarial accrued liability exceeded the actuarial value of assets by \$82.6 million. As of May 1, 2004, the actuarial accrued liability exceeded the actuarial value of assets by \$113.1 million. This increased deficit is primarily due to less than anticipated investment return on an actuarial value of assets basis and the recognition of past investment losses.
- > The market value of assets now exceeds the actuarial value of assets as of April 30, 2004, due to the 18.86% return and the effect of the asset smoothing method. This constitutes a positive asset reserve dollar difference of approximately \$47.0 million. The actuarial value of assets as a percentage of market value of assets is 93.0% as of April 30, 2004, compared to 106.7% as of the prior year. The large market value investment gain during the prior year will be recognized over future years and will potentially offset future losses, should they occur.
- > There were no changes in plan provisions, actuarial assumptions or actuarial cost methods since the prior actuarial valuation.

SECTION 1: Valuation Summary for the Employees' Retirement System of the City of Kansas City, Missouri

	2004	2003
Contributions for plan year beginning May 1:		
Recommended	\$23,406,798	\$20,018,740
Scheduled*	11,150,642	8,019,644
Scheduled city contribution for retirement window offered in 2003**	3,433,067	3,248,862
Actual		12,100,061
Funding elements for plan year beginning May 1:		
Normal cost, including employee contributions***	\$18,651,105	\$17,575,399
Market value of assets	674,111,615	585,919,321
Actuarial value of assets	627,078,139	624,897,653
Actuarial accrued liability	740,186,346	707,513,176
Unfunded/(overfunded) actuarial accrued liability	113,108,207	82,615,523
GASB 25/27 for plan year beginning May 1:		
Annual required contributions	\$23,406,798	\$20,018,740
Actual contributions		12,100,061
Percentage contributed		60.44%
Funded ratio	84.72%	88.32%
Covered payroll	\$137,207,640	\$130,028,040
Demographic data for plan year beginning May 1:		
Number of pensioners and survivors	1,982	2,035
Number of vested former members	51	49
Number of refunds due	70	113
Number of active members	3,427	3,357
Total anticipated 2004 payroll	\$137,207,640	\$130,028,040
Average anticipated 2004 payroll	40,037	38,733

<sup>\*</sup> Scheduled City contribution for General Employees is 8.0% for 2004 and 6.0% for 2003 of anticipated payroll, and 19.5% of anticipated payroll for Judges and Elected Officials.

<sup>\*\*</sup> Scheduled City contribution for retirement window offered in 2003 is 2.53% of anticipated payroll for General Employees and projected to be paid annually through April 30, 2013.

<sup>\*\*\*</sup> Excludes adjustment for timing

#### A. MEMBER DATA

The Actuarial Valuation and Review considers the number and demographic characteristics of covered members, including active members, vested terminated members, pensioners and survivors. This section presents a summary of significant statistical data on these member groups. The 10.4% decrease in active members and the 22.9% increase in pensioners and survivors for the year ended April 30, 2003 is primarily due to the retirement window offered in 2003.

More detailed information including General Employees, Judges and Elected Officials summarized separately for this valuation year and the preceding valuation can be found in Section 3, Exhibits A, B, and C.

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

CHART 1
Member Population: 1995 – 2004

Year Ended April 30	Active Members	Vested Terminated Members*	Pensioners and Survivors	Ratio of Non-Actives to Actives	
1995	3,426	39	1,731	0.52	
1996	3,708	31	1,687	0.46	
1997	3,787	26	1,647	0.44	
1998	3,808	30	1,655	0.44	
1999	3,830	31	1,650	0.44	
2000	3,776	38	1,662	0.45	
2001	3,827	47	1,657	0.45	
2002	3,745	51	1,656	0.46	
2003	3,357	49	2,035	0.62	
2004	3,427	51	1,982	0.59	

<sup>\*</sup>Excludes terminated members due a refund of employee contributions

#### **Active Members**

Plan costs are affected by the age, years of service and payroll of active members. In this year's valuation, there were 3,427 active members with an average age of 43.2, average years of service of 9.0 years and average payroll of \$40,037. The 3,357 active members in the prior valuation had an average age of 42.6, average service of 8.5 years and average payroll of \$38,733.

#### **Inactive Members**

In this year's valuation, there were 51 members with a vested right to a deferred or immediate vested benefit.

In addition, there were 70 members entitled to a return of their employee contributions, totaling \$713,799. Last year, there were 113 members entitled to receive a return of their employee contributions totaling \$730,122.

The graphs below show distributions for the total Retirement System. The information split between General Employees, Judges, and Elected Officials are shown in Exhibit B.

These graphs show a distribution of active members by age and by years of service.

CHART 2
Distribution of Active Members by Age as of April 30, 2004

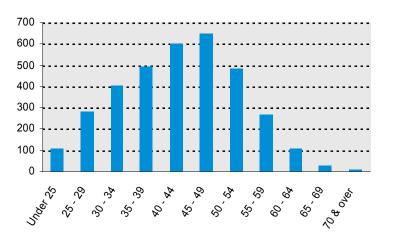
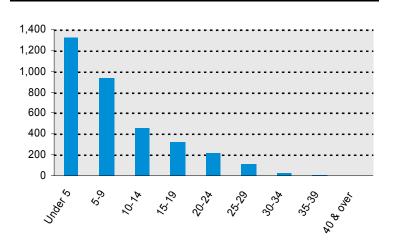


CHART 3
Distribution of Active Members by Years of Service as of April 30, 2004



### **Pensioners and Survivors**

As of April 30, 2004, 1,554 pensioners and 428 survivors were receiving total monthly benefits of \$2,637,414. For comparison, in the previous valuation, there were 1,610 pensioners and 425 survivors receiving monthly benefits of \$2,615,581.

These graphs show a distribution of the current pensioners and survivors based on their monthly amount and age, by type of pension.

Survivor
Disability
Vested
Early
Optional
Normal

CHART 4

Distribution of Pensioners and Survivors by Type and by Monthly Amount as of April 30, 2004

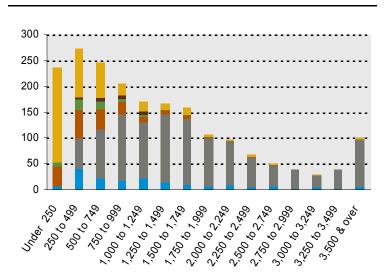
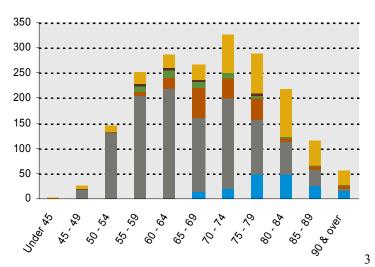


CHART 5
Distribution of Pensioners and Survivors by Type and by Age as of April 30, 2004



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

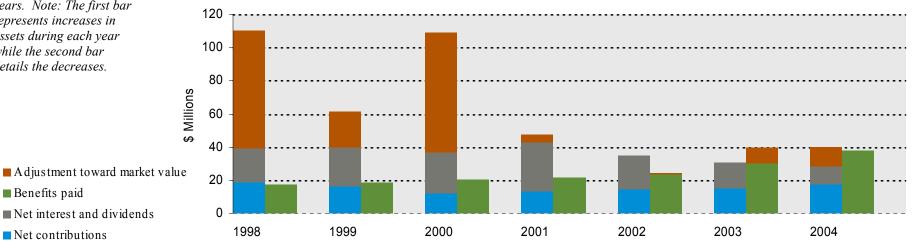
Retirement plan funding anticipates that, over the long term, both contributions and net investment earnings (less investment fees and administrative expenses) will be needed to cover benefit payments.

For the year ended April 30, 2004, the plan's cash flow became negative for the first time. Benefit payments (the green bar) now exceed the sum of total contributions (the blue bar) and net interest and dividends (the gray bar).

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

The chart depicts the components of changes in the actuarial value of assets over the last seven years. Note: The first bar represents increases in assets during each year while the second bar details the decreases.

CHART 6
Comparison of Increases and Decreases in the Actuarial Value of Assets for Years Ended April 30, 1998 – 2004



It is desirable to have level and predictable plan costs from one year to the next. For this reason, the Board has approved an asset valuation method that gradually adjusts to market value. Under this valuation method, the full value of market fluctuations is not recognized in a single year and, as a result, the asset value and the plan costs are more stable.

The amount of the adjustment to recognize market value is treated as income, which may be positive or negative. Realized and unrealized gains and losses are treated equally and, therefore, the sale of assets has no immediate effect on the actuarial value.

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

# CHART 7 Determination of Actuarial Value of Assets for Year Ended April 30, 2004

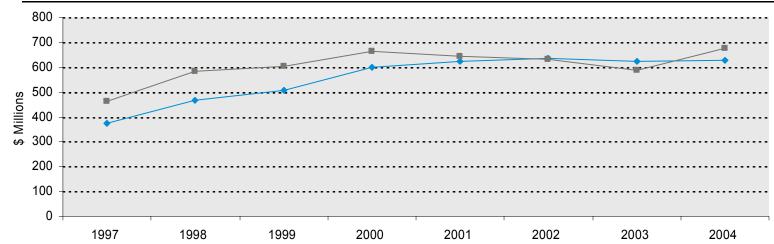
1. Actuarial value of assets at beginning of year	\$624,897,653
2. Contributions, interest and dividends, less benefit payments and expenses	-9,577,883
3. Preliminary actuarial value of assets: (1) + (2)	615,319,770
4. Market value of assets	674,111,615
5. Adjustment toward market value: 20% of [(4) - (3)]	11,758,369
6. Adjustment to be within 10% corridor	0
7. Final actuarial value of assets at end of year: $(3) + (5) + (6)$	<u>\$627,078,139</u>
8. Actuarial value at end of year as a percentage of market value: (7) ÷ (4)	93.0%

Both the actuarial value and market value of assets are representations of the Retirement System's financial status. As investment gains and losses are gradually taken into account, the actuarial value of assets tracks the market value of assets. The actuarial asset value is significant because the Retirement System's liabilities are compared to these assets to determine what portion, if any, remains unfunded. Amortization of the unfunded actuarial accrued liability is an important element in determining the contribution requirement.

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

CHART 8

Actuarial Value of Assets vs. Market Value of Assets as of April 30, 1997 – 2004



#### C. ACTUARIAL EXPERIENCE

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

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

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

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

The experience gain/(loss) is (\$23,325,261), (\$25,078,314) from investments and \$1,753,053 from all other sources. The net experience variation from individual sources other than investments was 0.2% of the actuarial accrued liability. A discussion of the major components of the actuarial experience is on the following pages.

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

# CHART 9 Actuarial Experience for Year Ended April 30, 2004

1.	Net gain/(loss) from investments*	-\$25,078,314
2.	Net gain/(loss) from other experience**	<u>1,753,053</u>
3.	Net experience gain/(loss): $(1) + (2)$	-\$23,325,261

<sup>\*</sup> Details in Chart 10

<sup>\*\*</sup> Details in Chart 13

### **Investment Rate of Return**

A major component of projected asset growth is the assumed rate of return. The assumed return should represent the expected long-term rate of return, based on the Retirement System's investment policy. For valuation purposes, the assumed rate of return on the actuarial value of assets is 7.75%. The actual rate of return on an actuarial basis for the 2004 plan year was 3.67%.

Since the actual return for the year was less than the assumed return, the Retirement System experienced an actuarial loss during the year ended April 30, 2004 with regard to its investments.

This chart shows the gain/(loss) due to investment experience.

# CHART 10 Actuarial Value Investment Experience for Year Ended April 30, 2004

1.	Actual return	\$22,561,490
2.	Average value of assets	614,707,151
3.	Actual rate of return: $(1) \div (2)$	3.67%
4.	Assumed rate of return	7.75%
5.	Expected return: (2) x (4)	\$47,639,804
6.	Actuarial gain/(loss): $(1) - (5)$	<u>-\$25,078,314</u>

Because actuarial planning is long term, it is useful to see how the assumed investment rate of return has followed actual experience over time. The chart below shows the rate of return on an actuarial basis compared to the market value investment return for the last seven years, including the five-year average. Based upon this experience and future expectations, we have maintained the assumed rate of return of 7.75% per annum, net of investment fees and administrative expenses.

CHART 11
Investment Return – Actuarial Value vs. Market Value: 1998 - 2004

	Net Interest and Dividend Income		Adjustment Toward Market		Actuarial Value Investment Return		Market Value Investment Return	
ear Ended April 30	Amount Percent		Amount Pe	Percent	Amount	Percent	Amount	Percent
1998	\$20,827,742	5.58	\$71,226,814	19.10	\$92,054,556	24.68	\$117,265,236	25.28
1999	23,037,972	4.96	21,546,601	4.64	44,584,573	9.60	24,377,279	4.21
2000	24,731,101	4.91	72,218,105	14.32	96,949,206	19.23	67,094,491	11.18
2001	29,239,958	4.93	5,077,282	0.86	34,317,240	5.79	-11,716,478	-1.76
2002	20,389,227	3.30	-499,818	-0.08	19,889,409	3.22	-2,418,993	-0.36
2003	15,618,140	2.49	-9,744,583	-1.56	5,873,557	0.93	-31,105,502	-4.98
2004	10,803,121	1.76	11,758,369	1.91	22,561,490	3.67	108,573,298	18.86
Total	\$144,647,261		\$171,582,770		\$316,230,031		\$272,069,331	
				Five-	year average return	6.09%		4.22%

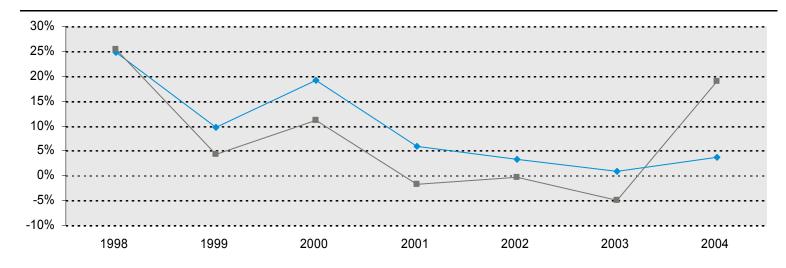
Note: Each year's yield is weighted by the average asset value in that year.

Subsection B described the actuarial asset valuation method that gradually takes into account fluctuations in the market value rate of return. The effect of this is to stabilize the actuarial rate of return, which contributes to leveling pension plan costs.

This chart illustrates how this leveling effect has actually worked over the years 1998 - 2004.

CHART 12

Market and Actuarial Rates of Return for Years Ended April 30, 1998 - 2004



## **Other Experience**

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

- > the extent of turnover among the participants,
- > retirement experience (earlier or later than expected),
- > mortality (more or fewer deaths than expected),

- > the number of new entrants and returning employees, and
- > salary increases different than assumed.

The net gain from this other experience for the year ended April 30, 2004 amounted to \$1,753,053 which is 0.2% of the actuarial accrued liability.

A brief summary of the demographic gain/(loss) experience of the Retirement System for the year ended April 30, 2004 is shown in the chart below.

The chart shows elements of the experience gain/(loss) for the most recent year.

# CHART 13 Experience Due to Changes in Demographics for Year Ended April 30, 2004

1.	Pre-retirement mortality	\$1,185,195
2.	Turnover	-1,341,183
3.	Retirement	340,138
4.	Post-retirement mortality	144,628
5.	New and returning employees	-1,861,153
6.	Salary increases less than expected for continuing actives	2,932,135
7.	Miscellaneous	<u>353,293</u>
8.	Total	\$1,753,053

#### D. RECOMMENDED CONTRIBUTION

The amount of annual contribution recommended to fund the System is comprised of a City normal cost payment and a payment on the unfunded/(overfunded) actuarial accrued liability.

The recommended City contribution is based on a 30-year open amortization of the unfunded/(overfunded) actuarial accrued liability as specified in the law governing the System. The scheduled City contribution is 8.0% of anticipated payroll for General Employees and 19.5% of anticipated payroll for Judges and Elected Officials. The

scheduled City contribution for the retirement window offered in 2003 is 2.53% of anticipated payroll for General Employees, and is projected to be paid annually through April 30, 2013.

The contribution rates as of May 1, 2004 are based on all of the data described in the previous sections, the actuarial assumptions described in Section 4, and the System's plan provisions adopted at the time of preparation of the actuarial valuation.

CHART 14
Recommended Contribution

			Year Beginning	g May 1, 2004	
		General Employees	Judges and Elected Officials	Total	Total % of Payroll
1.	Total normal cost, adjusted for timing	\$18,982,527	\$433,646	\$19,416,173	14.15%
2.	Expected employee contributions	<u>-5,427,773</u>	<u>-60,525</u>	<u>-5,488,298</u>	4.00%
3.	City normal cost: $(1) + (2)$	\$13,554,754	\$373,121	\$13,927,875	10.15%
4.	Actuarial accrued liability	732,902,117	7,284,229	740,186,346	
5.	Actuarial value of assets	620,907,016	6,171,123	627,078,139	
6.	Unfunded/(overfunded) actuarial accrued liability: (4) - (5)	\$111,995,101	\$1,113,106	\$113,108,207	
7.	Payment on unfunded/(overfunded) actuarial accrued liability over 30 years	9,385,640	93,283	9,478,923	6.91%
8.	Scheduled City contributions	10,855,547	295,095	11,150,642	8.13%
9.	Scheduled City contributions for retirement window offered in 2003*	3,433,067	0	3,433,067	2.50%
10.	Amount available for amortization: $(8) + (9) - (3)$	733,860	-78,026	655,834	
11.	Amount in excess of / (short of) expected City contributions: (10) - (7)	-8,651,780	-171,309	-8,823,089	-6.43%
12.	Total recommended City contribution, adjusted for timing**: (8) + (9) - (11)	22,940,394	466,404	23,406,798	<u>17.06%</u>
13.	Anticipated 2004 payroll	\$135,694,332	\$1,513,308	\$137,207,640	

<sup>\*</sup> Projected to be paid annually through April 30, 2013.

<sup>\*\*</sup> Recommended contributions are assumed to be paid at the end of every month.

### **Reconciliation of Recommended Contribution**

The chart below details the changes in the recommended contribution from the prior valuation to the current year's valuation.

The chart reconciles the contribution from the prior valuation to the amount determined in this valuation.

# CHART 15 Reconciliation of Recommended Contribution from May 1, 2003 to May 1, 2004

Recommended Contribution as of May 1, 2003	\$20,018,740
Effect of contributions (more)/less than recommended contribution	670,836
Effect of investment (gain)/loss	2,121,265
Effect of net other changes	<u>595,957</u>
Total change	<u>\$3,388,058</u>
Recommended Contribution as of May 1, 2004	\$23,406,798

#### E. INFORMATION REQUIRED BY THE GASB

Governmental Accounting Standards Board (GASB) reporting information provides standardized information for comparative purposes of governmental pension plans. This information allows a reader of the financial statements to compare the funding status of one governmental plan to another on relatively equal terms.

Critical information to GASB is the historical comparison of the GASB required contribution to the actual contributions. This comparison demonstrates whether a plan is being funded on an actuarially sound basis and in accordance with the GASB funding requirements. Chart 16 below presents a graphical representation of this information for the System.

The other critical piece of information regarding the System's financial status is the funded ratio. This ratio

compares the actuarial value of assets to the actuarial accrued liabilities of the plan as calculated under GASB. High ratios indicate a well-funded plan with assets sufficient to pay most benefits. Lower ratios may indicate recent changes to benefit structures, funding of the plan below actuarial requirements, poor asset performance, or a variety of other changes.

Although GASB requires that the actuarial value of assets be used to determine the funded ratio, Chart 17 shows the funded ratio calculated using both the actuarial value of assets and the market value of assets.

The details regarding the calculations of these values and other GASB numbers may be found in Section 4.

These graphs show key GASB factors.

CHART 16
Required Versus Actual Contributions

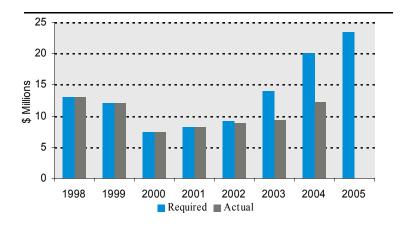
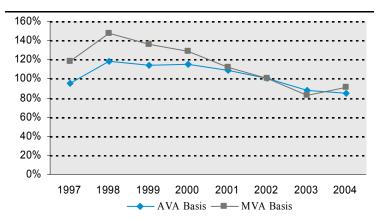


CHART 17 Funded Ratio



SECTION 3: Supplemental Information for the Employees' Retirement System of the City of Kansas City, Missouri

EXHIBIT A

Table of System Coverage

	Year End	led April 30	
Category	2004	2003	– Change From Prior Year
Total active members in valuation:			
Number	3,427	3,357	2.1%
Average age	43.2	42.6	N/A
Average service	9.0	8.5	N/A
Total anticipated 2004 payroll	\$137,207,640	\$130,028,040	5.5%
Average anticipated 2004 payroll	40,037	38,733	3.4%
Account balances	56,023,734	49,808,504	12.5%
Eligible to retire on:			
Normal pension	31	21	47.6%
Optional pension	121	89	36.0%
Early pension	122	106	15.1%
Deferred pension	1,831	1,748	4.7%
Total active vested members	2,105	1,964	7.2%
Vested terminated members	51	49	4.1%
Pensioners:			
Number in pay status	1,554	1,610	-3.5%
Average age	68.3	67.6	N/A
Average monthly benefit	\$1,548	\$1,491	3.8%
Survivors in pay status	428	425	0.7%
Members due refunds	70	113	-38.1%

SECTION 3: Supplemental Information for the Employees' Retirement System of the City of Kansas City, Missouri

**EXHIBIT A (continued)** 

**Table of System Coverage** 

	Year End	led April 30	
Category (Active participants in valuation)	2004	2003	– Change From Prior Year
General Employees			
Number	3,408	3,336	2.2%
Average age	43.2	42.5	N/A
Average service	9.0	8.5	N/A
Total anticipated 2004 payroll	\$135,694,332	\$128,413,512	5.7%
Average salary	39,816	38,493	3.4%
Judges			
Number	8	9	-11.1%
Average age	56.8	57.1	N/A
Average service	12.5	13.8	N/A
Total anticipated 2004 payroll	\$951,840	\$1,029,672	-7.6%
Average salary	118,980	114,408	4.0%
Elected Officials			
Number	11	12	-8.3%
Average age	50.6	49.8	N/A
Average service	3.5	2.3	N/A
Total anticipated 2004 payroll	\$561,468	\$584,856	-4.0%
Average salary	51,043	48,738	4.7%

SECTION 3: Supplemental Information for the Employees' Retirement System of the City of Kansas City, Missouri

**EXHIBIT B1 (General Employees)** 

Members in Active Service as of April 30, 2004 By Age, Years of Service, and Average Salary

	Years of Service										
Age	Total	Under 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over	
Under 25	106	105	1								
	\$24,707	\$24,700	\$25,392								
25 - 29	280	227	52	1							
	29,680	29,457	30,627	\$31,140							
30 - 34	402	232	137	32	1						
	34,302	30,698	38,183	43,266	\$51,840						
35 - 39	491	217	173	79	22						
	36,925	31,439	39,313	44,300	45,767						
40 - 44	599	183	186	101	82	44	3				
	40,991	32,259	40,765	46,118	50,368	\$48,813	\$43,984				
45 - 49	644	142	175	84	87	92	60	4			
	43,128	35,303	39,849	44,460	50,335	49,100	49,336	\$49,266			
50 - 54	478	109	111	79	77	62	30	9	1		
	44,675	33,746	43,334	47,216	48,776	50,318	54,611	64,273	\$43,872		
55 - 59	268	73	61	51	38	14	20	10	1		
	47,158	37,694	46,507	46,428	53,622	65,454	62,310	43,949	42,180		
60 - 64	107	26	27	22	19	3	2	4	3	1	
	46,533	34,389	39,819	45,379	61,038	53,372	56,616	64,551	84,188	\$67,644	
65 - 69	24	6	7	7	1		2	1			
	46,662	43,600	41,597	46,162	70,344		64,872	43,872			
70 & over	9	2	4	1	1			1			
	47,279	26,004	48,252	48,540	91,788			40,164			
Total	3,408	1,322	934	457	328	215	117	29	5	1	
	\$39,816	\$31,603	\$40,056	\$45,461	\$50,864	\$50,517	\$53,159	\$53,698	\$67,723	\$67,644	

SECTION 3: Supplemental Information for the Employees' Retirement System of the City of Kansas City, Missouri

**EXHIBIT B2 (Judges)** 

Members in Active Service as of April 30, 2004 By Age, Years of Service, and Average Salary

	Years of Service										
Age	Total	Under 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over	
Under 25											
25 - 29											
30 - 34											
35 - 39											
40 - 44											
45 - 49	1	1									
	\$118,980	\$118,980									
50 - 54	3		2	1							
	118,980		\$118,980	\$118,980							
55 - 59	1		1								
	118,980		118,980								
60 - 64	2				1	1					
	118,980				\$118,980	\$118,980					
65 - 69	1				1						
	118,980				118,980						
70 & over											
Total	8	1	3	1	2	1					
	\$118,980	\$118,980	\$118,980	\$118,980	\$118,980	\$118,980					

SECTION 3: Supplemental Information for the Employees' Retirement System of the City of Kansas City, Missouri

**EXHIBIT B3 (Elected Officials)** 

Members in Active Service as of April 30, 2004 By Age, Years of Service, and Average Salary

	Years of Service										
Age	Total	Under 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over	
Under 25											
25 - 29											
30 - 34											
35 - 39	2	1	1								
	\$46,788	\$46,788	\$46,788								
40 - 44	2	1	1								
	46,788	46,788	46,788								
45 - 49	1		1								
	46,788		46,788								
50 - 54	2	2									
	46,788	46,788									
55 - 59	1		1								
	46,788		46,788								
60 - 64	1	1									
	46,788	46,788									
65 - 69	1		1								
	93,588		93,588								
70 & over	1		1								
	46,788		46,788								
Total	11	5	6								
	\$51,043	\$46,788	\$54,588								

SECTION 3: Supplemental Information for the Employees' Retirement System of the City of Kansas City, Missouri

EXHIBIT B4 (Total)

Members In Active Service as of April 30, 2004 By Age, Years of Service, and Average Salary

	Years of Service										
Age	Total	Under 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over	
Under 25	106	105	1								
	\$24,707	\$24,700	\$25,392								
25 - 29	280	227	52	1							
	29,680	29,457	30,627	\$31,140							
30 - 34	402	232	137	32	1						
	34,302	30,698	38,183	43,266	\$51,840						
35 - 39	493	218	174	79	22						
	36,965	31,509	39,356	44,300	45,767						
40 - 44	601	184	187	101	82	44	3				
	41,010	32,338	40,797	46,118	50,368	\$48,813	\$43,984				
45 - 49	646	143	176	84	87	92	60	4			
	43,252	35,888	39,888	44,460	50,335	49,100	49,336	\$49,266			
50 - 54	483	111	113	80	77	62	30	9	1		
	45,145	33,981	44,673	48,113	48,776	50,318	54,611	64,273	\$43,872		
55 - 59	270	73	63	51	38	14	20	10	1		
	47,422	37,694	47,662	46,428	53,622	65,454	62,310	43,949	42,180		
60 - 64	110	27	27	22	20	4	2	4	3	1	
	47,853	34,848	39,819	45,379	63,935	69,774	56,616	64,551	84,188	\$67,644	
65 - 69	26	6	8	7	2		2	1			
	51,248	43,600	48,096	46,162	94,662		64,872	43,872			
70 & over	10	2	5	1	1			1			
	47,230	26,004	47,959	48,540	91,788			40,164			
Total	3,427	1,328	943	458	330	216	117	29	5	1	
	\$40,037	\$31,726	\$40,400	\$45,622	\$51,276	\$50,834	\$53,159	\$53,698	\$67,723	\$67,644	

SECTION 3: Supplemental Information for the Employees' Retirement System of the City of Kansas City, Missouri

EXHIBIT C
Reconciliation of Member Data

	Active Members	Vested Former Members	Pensioners	Survivors	Total
Number as of May 1, 2003	3,357	49	1,610	425	5,441
New members	325	N/A	N/A	N/A	325
Terminations – with vested rights	-4	4	0	0	0
Terminations – without vested rights	-240	N/A	N/A	N/A	-240
Retirements	-4	0	4	N/A	0
Return to work	3	0	-3	N/A	0
Died with beneficiary	0	0	-24	24	0
Died without beneficiary	-10	-2	-38	-26	-76
Certain period expired	N/A	N/A	0	-1	-1
Data adjustments	<u>0</u>	<u>0</u>	<u>5</u>	<u>6</u>	<u>11</u>
Number as of May 1, 2004	3,427	51	1,554	428	5,460

SECTION 3: Supplemental Information for the Employees' Retirement System of the City of Kansas City, Missouri

EXHIBIT D
Summary Statement of Income and Expenses on an Actuarial Value Basis

	Year Ended A	pril 30, 2004	Year Ended April 30, 2003		
Contribution income:					
Employer contributions	\$12,100,061		\$9,284,587		
Employee contributions	<u>5,348,584</u>		<u>5,809,817</u>		
Total contribution income		\$17,448,645		\$15,094,404	
Investment income:					
Interest, dividends and other income	\$14,277,781		\$18,923,064		
Adjustment toward market value	11,758,369		-9,744,583		
Less investment fees and administrative expenses	<u>-3,474,660</u>		<u>-3,304,924</u>		
Net investment income		22,561,490		5,873,557	
Total income available for benefits		\$40,010,135		\$20,967,961	
Less benefit payments:					
Benefit payments	-\$35,403,522		-\$22,745,408		
Refund of contributions (terminations)	-1,176,930		-1,273,083		
Refund of contributions (retirements)	<u>-1,249,197</u>		<u>-6,077,659</u>		
Total benefit payments		-\$37,829,649		-\$30,096,150	
Change in reserve for future benefits		\$2,180,486		-\$9,128,189	

SECTION 3: Supplemental Information for the Employees' Retirement System of the City of Kansas City, Missouri

EXHIBIT E

Table of Financial Information

	Year Ended A	pril 30, 2004	Year Ended April 30, 2003		
Cash equivalents		\$38,038,960		\$38,161,367	
Accounts receivable:					
Contributions	\$709,863		\$412,375		
Investment income	1,046,092		1,035,761		
Sale of investments	<u>9,114,926</u>		<u>2,946,107</u>		
Total accounts receivable		10,870,881		4,394,243	
Investments:					
Common stocks	\$565,880,816		\$378,511,860		
Corporate bonds	48,441,031		153,899,475		
Government securities	49,013,151		33,026,773		
Government bonds	20,501		244,231		
Foreign securities	369,161		303,408		
Indexed notes and bonds	9,702,982		<u>6,681,593</u>		
Total investments at market value		673,427,642		572,667,340	
Total assets		\$722,337,483		\$615,222,950	
Less accounts payable:					
Purchase of investments	-\$47,468,438		-\$28,514,134		
Administrative expenses and investment fees payable	<u>-757,430</u>		<u>-789,495</u>		
Total accounts payable		-\$48,225,868		-\$29,303,629	
Net assets at market value		<u>\$674,111,615</u>		\$585,919,321	
Net assets at actuarial value		<u>\$627,078,139</u>		<u>\$624,897,653</u>	

SECTION 3: Supplemental Information for the Employees' Retirement System of the City of Kansas City, Missouri

EXHIBIT F

Development of the Fund Through April 30, 2004

Year Ended April 30	Employer Contributions	Employee Contributions	Net Investment Return*	Benefit Payments	Actuarial Value of Assets at End of Year
1998	\$12,971,863	\$5,494,028	\$92,054,556	\$17,303,120	\$465,619,424
1999	11,940,848	4,689,949	44,584,573	18,553,121	508,281,673
2000	7,324,278	4,754,722	96,949,206	20,224,255	597,085,624
2001	8,106,825	5,262,253	34,317,240	21,522,390	623,249,552
2002	8,747,053	5,700,124	19,889,409	23,560,296	634,025,842
2003	9,284,587	5,809,817	5,873,557	30,096,150	624,897,653
2004	12,100,061	5,348,584	22,561,490	37,829,649	627,078,139

<sup>\*</sup> Net of investment fees and administrative expenses

SECTION 3: Supplemental Information for the Employees' Retirement System of the City of Kansas City, Missouri

1. Unfu	nded/(Overfunded) actuarial accrued liability at beginning of year		\$82,615,523
2. Plus:	Expected change due to amortization method		
	Normal cost	\$17,575,400	
	Interest on unfunded accrued liability and normal cost	<u>7,764,797</u>	
	Subtotal	25,340,197	
	Expected City and employee contributions	-20,072,007	
	Interest on expected contributions	<u>-831,739</u>	
	Scheduled change		\$4,436,45
3. Plus:	Deficient (surplus) contributions		
	Expected City and employee contributions	\$20,072,007	
	Actual City and employee contributions	<u>-17,448,645</u>	
	Contribution shortfall (surplus)	2,623,362	
	Interest	<u>107,610</u>	
	Deficient (surplus) contributions		\$2,730,97
4. Plus:	Actuarial (gains) losses		
	Investment earnings	\$25,078,314	
	Salary increases less than expected for continuing actives	-2,932,135	
	Turnover	1,341,183	
	Retirement	-340,138	
	New and returning employees	1,861,153	
	Pre-retirement mortality	-1,185,195	
	Post-retirement mortality	-144,628	
	Miscellaneous	<u>-353,293</u>	
	Total		\$23,325,26
5. Unfu	nded/(Overfunded) actuarial accrued liability at end of year		\$113,108,20

#### **EXHIBIT H**

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

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

**Actuarial Assumptions:** 

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

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

**Normal Cost:** 

The amount of contributions required to fund the benefit allocated to the current year of service.

Actuarial Accrued Liability For Actives:

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

Actuarial Accrued Liability For Pensioners:

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

**Unfunded Actuarial Accrued Liability:** 

The extent to which the actuarial accrued liability of the System exceeds the assets of the System. There is a wide range of approaches to paying off the unfunded actuarial accrued liability, from meeting the interest accrual only to amortizing it over a specific period of time.

**Amortization of the Unfunded** 

Actuarial Accrued Liability: Payments made over a period of years equal in value to the System's unfunded

actuarial accrued liability.

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

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

year to the next.

# SECTION 4: Reporting Information for the Employees' Retirement System of the City of Kansas City, Missouri

EXHIBIT I		
Summary of Actuarial Valuation Results		
The valuation was made with respect to the following data supplied to us:		
1. Pensioners as of the valuation date (including 428 beneficiaries in pay status)		1,982
2. Members inactive during year ended April 30, 2004 with vested rights		51
3. Members active during the year ended April 30, 2004		3,427
Fully vested	2,105	
Not vested	1,322	
4. Members due refunds as of April 30, 2004		70

The	e actuarial factors as of the valuation date are as follows:		
1.	Actuarial accrued liability:		\$740,186,346
	Pensioners and survivors	\$405,369,936	
	Inactive members with vested rights*	5,790,771	
	Active members	329,025,639	
2.	Actuarial value of assets (\$674,111,615 at market value)		627,078,139
3.	Unfunded/(overfunded) actuarial accrued liability: (1) – (2)		113,108,207
4.	Amortization of unfunded/(overfunded) actuarial accrued liability		9,478,923
5.	Normal cost, payable monthly:		
	Amount		\$19,416,173
	As a percent of payroll		14.15%
6.	Total recommended contribution: $(4) + (5)$		
	Amount		\$28,895,096
	As a percent of payroll		21.06%
7.	Expected employee contribution (4.0% of payroll)		\$5,488,298
8.	Recommended City contribution: $(6) - (7)$		
	Amount		\$23,406,798
	As a percent of payroll		17.06%
9.	Expected City contribution:		
	General Employees (8.0% of payroll)		\$10,855,547
	Judges and Elected Officials (19.5% of payroll)		295,095
	General Employees (2.53% of payroll) for retirement window offered in 2003**		3,433,067
	Total		\$14,583,709
10.	Excess/(shortfall) total City contributions:		
	Amount		-\$8,823,089
	As a percent of payroll		-6.43%
11.	Total anticipated 2004 payroll		\$137,207,640

<sup>\*</sup> Includes members due refunds

<sup>\*\*</sup> Projected to be paid annually through April 30, 2013.

EXHIBIT II

Supplementary Information Required by the GASB – Schedule of City Contributions

Plan Year Ended April 30	Annual Required Contributions	Actual Contributions	Percentage Contributed	
1998	\$12,971,863	\$12,971,863	100.0%	
1999	11,940,848	11,940,848	100.0%	
2000	7,324,278	7,324,278	100.0%	
2001	8,106,825	8,106,825	100.0%	
2002	9,094,835	8,747,053	96.2%	
2003	13,996,455	9,284,587	66.3%	
2004	20,018,740	12,100,061	60.4%	
2005	23,406,798			

EXHIBIT III

Supplementary Information Required by the GASB – Schedule of Funding Progress

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded/ (Overfunded) AAL (UAAL) (b) - (a)	Funded Ratio (a) / (b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll* [(b) - (a) / (c)]
05/01/1997	\$372,402,097	\$391,069,000	\$18,666,903	95.23%	\$109,405,000	17.06%
05/01/1998	465,619,424	394,943,900	-70,675,524	117.90%	111,639,400	0.0%
05/01/1999	508,281,673	445,761,900	-62,519,773	114.03%	117,018,100	0.0%
05/01/2000	597,085,624	517,046,400	-80,039,224	115.48%	122,645,800	0.0%
05/01/2001	623,249,552	573,339,758	-49,909,794	108.71%	136,263,216	0.0%
05/01/2002	634,025,842	630,683,891	-3,341,951	100.53%	146,816,820	0.0%
05/01/2003	624,897,653	707,513,176	82,615,523	88.32%	130,028,040	63.54%
05/01/2004	627,078,139	740,186,346	113,108,207	84.72%	137,207,640	82.44%

<sup>\*</sup> Not less than zero

EXHIBIT IV
Progress of Pension Rolls Through April 30, 2004

Year Ended April 30	Awards	Deaths	Suspensions	Reinstatements	Number	Monthly Amount
1997	63	98	5		1,647	\$1,129,100
1998	82	76	2	4	1,655	1,183,731
1999	82	87			1,650	1,285,927
2000	96	84			1,662	1,358,548
2001	78	83			1,657	1,484,234
2002	86	87			1,656	1,581,296
2003	462*	83			2,035	2,615,581
2004	39	89	3		1,982	2,637,414

<sup>\*</sup> The higher number of awards for the year ended April 30, 2003 is due to the retirement window offered in 2003.

EXHIBIT V
Pensions in Payment Status on May 1, 2004 by Type and Monthly Amount

Monthly		Type of Pension						
Amount	Total	Normal	Optional	Early	Deferred	Disability	Survivor	
Total	1,982	168	1,114	187	63	22	428	
Under \$200	93	3	1	31	6		52	
\$200 - 399	266	14	9	35	8		200	
400 - 599	251	36	79	43	24	5	64	
600 - 799	186	18	91	29	8	8	32	
800 - 999	165	15	101	18	6	4	21	
1,000 - 1,199	137	18	84	10	4	5	16	
1,200 - 1,399	127	10	94	9	2		12	
1,400 - 1,599	144	10	115	5	3		11	
1,600 - 1,799	104	8	89	2			5	
1,800 - 1,999	89	6	77	1	2		3	
2,000 - 2,199	85	7	77				1	
2,200 - 2,399	58	3	52	2			1	
2,400 - 2,599	44	3	38				3	
2,600 - 2,799	34	3	27	2			2	
2,800 - 2,999	32	2	30					
3,000 - 3,199	25	4	20				1	
3,200 - 3,399	25	1	24					
3,400 - 3,599	27	2	24				1	
3,600 - 2,799	15		15					
3,800 - 3,999	12	1	11					
4,000 - 4,199	12		11				1	
4,200 - 4,399	11		11					
4,400 – 4,599	9	1	7				1	
4,600 – 4,799	5		5					
4,800 – 4,999	1		1					
5,000 and Over	25	3	21				1	

During the year ended April 30, 2004, there were 39 new pensions awarded (1 Normal, 8 Optional, and 30 Survivors).

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## **Supplementary Information Required by the GASB**

Valuation Date	May 1, 2004		
Actuarial Cost Method	Entry Age Normal Cost		
Amortization Method	Open 30-year amortization period; level dollar amount for remaining unfunded/(overfunded) actuarial accrued liability		
Remaining Amortization Period	30 years		
Asset Valuation Method	Asset values are gradually adjusted toward market value by adding to the "preliminary value" 20% of the difference between the market value and the preliminary asset value preliminary asset value is the actuarial asset value at the beginning of the year plus net money. Net new money is the sum of contributions, dividends and interest, less the sur refunds, expenses and benefit payments. If the actuarial value of assets is less than 90% more than 110% of the market value, an adjustment is made to the actuarial value to brivalue within this 10% corridor.		
Actuarial Assumptions:			
Investment rate of return	7.75% per annum, net of investment fees and administrative expenses		
Projected salary increases	6.00% per annum		
Annual cost of living adjustments	3.00% of original benefit		
Membership of the Plan:			
Pensioners and survivors receiving benefits	1,982		
Vested former members entitled to, but not yet receiving benefits	51		
Members due refunds	70		
Active members	<u>3,427</u>		
Total	5,530		

SECTION 4: Reporting Information for the Employees' Retirement System of the City of Kansas City, Missouri

#### **EXHIBIT VII**

**Actuarial Assumptions and Actuarial Cost Method** 

**Mortality Rates:** 

Healthy: 1983 Group Annuity Mortality Table (sample rates shown below)

Disabled: 1983 Railroad Retirement Board Disabled Life Mortality Table

**Rates before Retirement:** Sa

Sample rates shown below:

Rate (%)

	rate (70)					
	Mor	Mortality		Withdrawal*		
Age	Male	Female	General Employees	Judges and Elected Officials		
 20	0.04	0.02	11.94	5.71		
25	0.05	0.03	11.62	5.14		
30	0.06	0.03	11.21	3.89		
35	0.09	0.05	10.55	2.47		
40	0.12	0.07	9.40	1.18		
45	0.22	0.10	7.54	0.28		
50	0.39	0.16	4.83			
55	0.61	0.25	1.73			
60	0.92	0.42	0.16			

<sup>\*</sup> Withdrawal rates end upon first assumed retirement age.

#### **Retirement Rates:**

## **General Employees**

Age	Age Plus Service Greater than or <u>Equal to 80*</u>	Other General Employees
Under 55	15%	0%
55	30	0
56	15	0
57	15	0
58	15	0
59	15	0
60	15	0
61	15	0
62	60	100
63	60	100
64	60	100
65	100	100

<sup>\* 50%</sup> of General Employees are assumed to retire at first age when age plus service equals 80.

Elected Officials		
<u>Age</u>	Percent	
60	100%	

Judges		
<u>Age</u>	<u>Percent</u>	
65	100%	

SECTION 4: Reporting Information for the Employees' Retirement System of the City of Kansas City, Missouri

Retirement Age for Inactive Vested Members:	60
Unknown Data for Members:	Same as those exhibited by Members with similar known characteristics.
Percent Married:	80% for males and 70% for females in active status.
Age of Spouse:	Females four years younger than males.
Net Investment Return:	7.75% per annum, net of investment fees and administrative expenses.
Salary Increases:	6.00% per year.
Actuarial Value of Assets:	Asset values are gradually adjusted toward market value by adding to the "preliminary asset value" 20% of the difference between the market value and the preliminary asset value. The preliminary asset value is the actuarial asset value at the beginning of the year plus net new money. Net new money is the sum of contributions, dividends and interest, less the sum of refunds, expenses and benefit payments. If the actuarial value of assets is less than 90% or more than 110% of the market value, an adjustment is made to the actuarial value to bring the value within this 10% corridor.
Actuarial Cost Method:	Entry Age Normal Actuarial Cost Method. Entry Age is the age at the time the participant commenced employment. Normal Cost and Actuarial Accrued Liability are calculated on an individual basis and are allocated by service, with Normal Cost determined as if the current benefit accrual rate had always been in effect.
Amortization of Unfunded Actuarial Accrued Liability/Surplus:	Open 30-year amortization period; level dollar amount.
Changes in Assumptions:	There have been no changes in actuarial assumptions or actuarial cost methods since the last valuation.

## SECTION 4: Reporting Information for the Employees' Retirement System of the City of Kansas City, Missouri

#### **EXHIBIT VIII**

#### **Summary of Plan Provisions**

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

Plan Year:	May 1 through April 30			
Membership:	All full-time permanent employees in the classified and unclassified services shall become members as a condition of employment. Employees of any administrative board or board of control as organized and existing under general laws of Missouri and as defined in Revised Statutes of Missouri, Section 95.540, whose governing body has elected membership, shall become members. Membership shall begin on the first day of employment.			
Creditable Service:	Total creditable service is defined as the sum of the number of years of membership service and prior service.			
Membership Service	Years and full calendar months of employment while a contributing member of this System.			
Prior Service	Years and full calendar months of employment preceding December 21, 1962, if continuous with membership service.			

#### **Normal Retirement:**

Age Requirement General Employees: 65.

Judges and Elected Officials: Later of age 60 or expiration of term of office.

Service Requirement General Employees: 5 years of creditable service.

Judges and Elected Officials: One elective term.

Amount General Employees:

*If unmarried at time of retirement,* 2.22% of final average compensation multiplied by years and months of creditable service.

*If married at date of retirement,* 2.00% of final average compensation multiplied by years and months of creditable service.

*Minimum benefit:* \$400 per month if retirement with at least 10 years of creditable service.

Maximum benefit: 70% of final average compensation.

## Judges and Elected Officials:

2.22% of average monthly compensation received by then serving Judges and Elected Officials of the same office during the 24 months preceding the beginning of the annuity multiplied by years and months of creditable service.

*Maximum benefit:* 70% of the existing salary for then serving Judges and Elected Officials of the same office.

A member retiring with a normal, optional, service or early retirement benefit may elect to withdraw all, or a portion of, member accumulated contributions and interest, and receive a reduced annuity.

Final average compensation is defined as the monthly average of the two highest years of compensation in the last ten years (for Judges and Elected Officials, last ten years for then serving elected official of same office). Compensation does not include bonus, overtime, expense allowance or other extraordinary compensation.

# SECTION 4: Reporting Information for the Employees' Retirement System of the City of Kansas City, Missouri

Optional Retirement:			
Age Requirement	60		
Service Requirement	10 years of creditable service, or		
Age/Service requirement	The sum of age and service equals 80, if earlier.		
Amount	Same as normal retirement.		
Early Retirement:			
Age/Service Requirement	General Employees:	60 and 5 years of creditable service, or 55 and 10 years of creditable service.	
	Judges and Elected Officials:	55 and 10 years of creditable service.	
Amount	Accrued benefit reduced by ½ of 1% per month of age less than 60 or, if service less than ten, ½ of 1% per month of age less than 65.		
Disability:			
Age Requirement	Disability benefits are provided effective June 1, 1996.	d through a separate long-term disability program,	
Vesting:			
Age Requirement	None		
Service Requirement	Five years of service.		
Amount	Accrued benefit payable at age	60, or payable at age 65 if service less than 10.	
Withdrawal (Refund) Benefit:			
Age Requirement	None		
Service Requirement	Less than five years of service.		
Amount	An employee terminating before becoming eligible for a deferred pension or not to elect a deferred benefit, will receive a return of contributions with inte		

#### **Pre-Retirement Death Benefit:**

#### Service less than five years:

Age Requirement None

Service Requirement Less than five years.

Amount Lump sum equal to the member's accumulated contributions and interest shall be paid

to the surviving spouse or, if no surviving spouse, to the designated beneficiary, or, if

none, to the member's estate.

Service of five or more years

but less than 20 years:

Age Requirement None

Service Requirement Five or more years of service but less than 20 years.

Amount The surviving spouse may elect, in lieu of the lump sum settlement above, an annuity

equal to 50% of the member's accrued annuity at the time of death. The effective date of this annuity shall be the later of the first day of the month following the member's death or attainment of what would have been the member's early retirement date. The annuity is reduced for early retirement if paid at the member's early retirement date.

Service of 20 or more years of service:

Age Requirement None

Service Requirement 20 or more years of service.

Amount The surviving spouse may elect, in lieu of the settlements above, an annuity equal to

100% of the member's accrued annuity at the time of death, actuarially reduced for 100% joint and survivor coverage. The effective date of this annuity shall be the first

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day of the month following the member's death.

#### **Post-Retirement Death Benefit:**

Age Requirement
Service Requirement

None None

Amount

The surviving spouse shall receive an annuity equal to 50% of the member's accrued annuity, or, it the member elected the actuarially equivalent 100% joint and survivor annuity, this annuity shall continue to be paid to the surviving spouse. Either annuity is payable until death or remarriage of the spouse.

**Minimum Surviving Spouses'** 

**Pension:** 

A minimum benefit of \$200 per month is paid to surviving spouses of members with

10 or more years of creditable service.

**Health Insurance Subsidy:** A monthly health insurance subsidy of \$200 is paid to all current and future

pensioners. Benefits are payable for the lifetime of the member and are not subject to

an annual cost-of-living adjustment.

Cost-Of-Living Adjustment

(COLA):

An increase of 3.00% of the original pension will be made annually. Members must retire on or before January 1<sup>st</sup> in order to receive a COLA in the following year.

**Contributions:** 

(a) Employee - 4.00% of salary

- The City "picks up" these employee contributions.

(b) City - 8.00% of payroll for General Employees

- 2.53% of payroll for General Employees for the retirement window offered in 2003, projected to be paid annually through

April 30, 2013.

- 19.50% of payroll for Judges and Elected Officials.

**Interest on Employee Contributions:** 5.25% per year, compounded.

**Changes in Plan Provisions:** 

There have been no changes in the plan provisions since the preceding

actuarial valuation.

## **Data Section (do not touch)**

StringBookmarks

ActuaryCredential

PlanNameLong Employees' Retirement System of the City of Kansas City, Missouri

PlanNameShort Retirement System
OfficeAddr1 delete this (Street address)
OfficeAddr2 Kansas City, Missouri
ClientContact Board of Trustees
FinanSource Retirement System
ActuaryName Wally Malles
ActuaryTitle Assistant Actuary

ActuaryNumber 99-1234 Assumptions Board

ConsultantName Leslie L. Thompson, FSA, MAAA, EA
ConsultantTitle Senior Vice President and Actuary
SegalAddr1 6300 S. Syracuse Way, Suite 750

ASA, MAAA, EA

SegalAddr2 Englewood, CO 80111

SegalPhone303.714.9900SegalFax303.714.9990ParticipantNameMemberParticipantPluralMembersRetireeNamePensionerRetireePluralPensioners

AuditorCompany delete this (Auditor Company)

FMWording Entry Age Normal

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PavRef Payroll PayRefSingle Payroll GLText loss GLAdminText loss OtherGLText gain GLInvText loss HistYearsText eight EmpName **Employer** 

# Data Section (do not touch)

OptCategory1 OptCategory2 OptRow InactNonText Due Refunds Disableds

Due Refunds

# **Data Section (do not touch)**

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AssetMethod	1	··#"
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IntActual	0.0367	"#.00%"
IntActual1	0.0095	"#.00%"
MVIntActual	0.1886	"#.00%"
MVIntActual1	-0.0497	"#.00%"
DollarLimit	165,000	·'#,###''
DollarLimit1	160,000	·'#,###''
Valcycle	1	"#"
Fiscal	0	"#"
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ActNumTot1	3,357	"#,## <b>#</b> "
ActNumUnknown	0	"#,###"
AveSalary	40,037	"#,###"
AveSalary1	38,733	"#,###"
ActAge	43.2	"#,###"
ActAge1	42.6	"#,###"
ActSvc	09.0	"#,###"
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Payroll	137,207,640	"#,###"
Payroll1	130,028,040	"#,###"
BenNum	444	"#,###"
BenNum1	425	·'# <sub>,</sub> ###''
BenBft	247,396	"#,###" <sup>*</sup>
BenBft1	215,131	"#,###"
RDNum	1,521	"#,## <b>#</b> "
RDNum1	1,610	"#,###"
SuspendedPens	0	"#,###"
SuspendedPens1	0	·'# <sub>,</sub> ###''
RDBft	2,312,730	"#,## <b>#</b> "
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InactNum	50	"#,###"
TotalCount	5,442	"#,## <b>#</b> "
TotalCount1	5,441	·'##.##''
AstMkt	674,111,615	''#,###' <b>'</b>
AstAct	627,078,139	"#,###.##"
AstAct1	624,897,653	''#,###' <b>'</b>
InvGL	-25,078,314	·'# <sub>,</sub> ###''
AstActAve	614,707,151	"#,###"

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TotalGl	-8,610,520	"#,###"
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ActAL	725,471,605	"#,###"
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AsmExpDolPer	0	"#,###"
AsmExpDolPer1	0	"#,###"
SchAmtYrs	30	"# <sub>,</sub> ###"
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FCRate1	0.1540	"#.00%"
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RecContDec	27,428,810	"#,###"
RecContInc	16,918,476	"# <sub>,</sub> ###"
RecContPct	0.1616	"#.00%"
RecContPctDec	0.1999	"#.00%"
RecContPctInc	0.1233	"#.00%"

	First
Chart1First	1995
Chart6First	1998
Chart8First	1997
Chart11First	1998
Chart12First	1998

	Last
Chart1Last	2004
Chart6Last	2004
Chart8Last	2004
Chart11Last	2004
Chart12Last	2004

	Num
Chart1Num	10
Chart6Num	7
Chart8Num	8
Chart11Num	7
Chart12Num	7

Results of last import: Last Import was Successful! Type of import: Import Itemized!

Spreadsheet imported from:

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