City of Wichita Police and Fire Retirement System

Actuarial Valuation Report as of December 31, 2005

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Milliman
Consultants and Actuaries

April 10, 2006

The Board of Trustees
City of Wichita Police and Fire Retirement System
City Hall, 12th Floor
Wichita, KS 67202

Dear Members of the Board:

At your request, we have conducted an annual actuarial valuation of the City of Wichita Police and Fire Retirement System as of December 31, 2005. The results of the valuation are contained in the following report. There was no change in plan provisions or actuarial assumptions and procedures from the prior valuation.

In preparing our report, we relied, without audit, on information (some oral and some written) supplied by the System's staff. This information includes, but is not limited to, plan provisions, member data and financial information. We have relied, without audit, on this data. If the underlying data or information is inaccurate or incomplete the results of our analysis may also be inaccurate or incomplete.

Actuarial computations presented in this report are for purposes of determining the actuarial contribution rates for funding the System. Actuarial computations under GASB Statement No. 25 are for purposes of fulfilling financial accounting requirements. Determinations for purposes other than these requirements may be significantly different from the results contained in this report. Accordingly, additional determinations may be needed for other purposes.

We understand this report is considered a public document and, as such, may be subject to disclosure to third parties. However, Milliman does not intend to benefit, and assumes no liability to, any third party who receives the report in this fashion. Any distribution of the enclosed report must be in its entirety including this cover letter, unless prior written consent is obtained from Milliman, Inc.

We hereby certify that all costs, liabilities, rates of interest and other factors for the System have been determined on the basis of actuarial assumptions and methods which are internally consistent, individually reasonable (taking into account the experience of the Plan and reasonable expectations of future experience) and which, in combination, offer our best

estimate of anticipated experience under the Plan. Nevertheless, the emerging costs will vary from those presented in this report to the extent actual experience differs from that projected by the actuarial assumptions. The Board of Trustees has the final decision regarding the appropriateness of the assumptions and adopted them as outlined in Appendix C.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted principles and practices which are consistent with the principles prescribed by the Actuarial Standards Board (ASB) and the Code of Professional Conduct and Qualification Standards for Public Statements of Actuarial Opinion of the American Academy of Actuaries.

We would like to express our appreciation to Barbara Davis, Pension Manager, and to members of her staff, who gave substantial assistance in supplying the data on which this report is based.

We herewith submit the following report and look forward to discussing it with you.

Respectfully Submitted,

MILLIMAN, Inc.

I, Patrice A. Beckham, F.S.A. am a member of the American Academy of Actuaries and a Fellow of the Society of Actuaries, and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Patrice A. Beckham, F.S.A.
Consulting Actuary

I, Brent A. Banister, F.S.A. am a member of the American Academy of Actuaries and a Fellow of the Society of Actuaries, and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Brent A. Banister, F.S.A.
Actuary

SECTION 1

BOARD SUMMARY

OVERVIEW

This report presents the results of the December 31, 2005 actuarial valuation of the Wichita Police and Fire Retirement System (WPF). The primary purposes of performing a valuation are to:

- determine the employer contribution rates required to fund the System on an actuarial basis,

- disclose asset and liability measures as of the valuation date,

- determine the experience of the System since the last valuation date, and

- analyze and report on trends in System contributions, assets, and liabilities over the past several years.

There were no changes in the benefit provisions or actuarial assumptions and procedures from the last valuation.

The valuation results provide a "snapshot" view of the System's financial condition on December 31, 2005. The unfunded actuarial liability increased by $0.3 million. A detailed analysis of the change in the unfunded actuarial liability from December 31, 2004 to December 31, 2005 is shown on page 3.

ASSETS

As of December 31, 2005, the System had total funds, when measured on a market value basis, of $406.7 million. This was an increase of $24 million from the December 31, 2004 figure of $383.1 million. The components of the change in the market value of assets for the Retirement System (in millions) are set forth below:

	Market Value ($M)
Assets, December 31, 2004	$383.1
• City and Member Contributions	11.0
• Benefit Payments and Refunds	(18.7)
• Investment Income (net of expenses)	31.3
Assets, December 31, 2005	$406.7

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The market value of assets is not used directly in the calculation of the City's contribution rate. An asset valuation method which smoothes the effect of market fluctuations is used to determine the value of assets used in the valuation, called the "actuarial value of assets". The actuarial value of assets is equal to the expected value (calculated using the actuarial assumed rate of 7.75%) plus 25% of the difference between the market and expected values. See Table 3 on page 11 for a detailed development of the actuarial value of assets. The change in the actuarial value of assets from December 31, 2004 to December 31, 2005 is shown below:

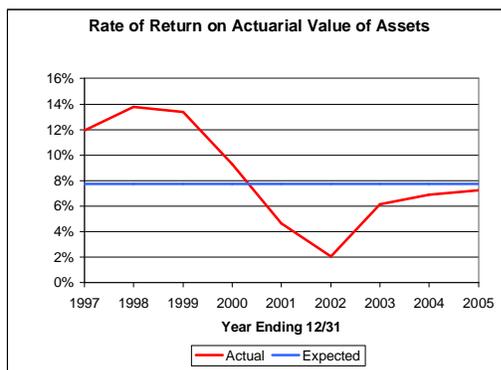|	Actuarial Value ($M)
Assets, December 31, 2004	$392.5
• City and Member Contributions	11.0
• Benefit Payments and Refunds	(18.7)
• Investment Income (net of expenses)	28.0
Assets, December 31, 2005	$412.8

The annualized dollar-weighted rate of return, measured on the actuarial value of assets, was 7.2% and, measured on the market value of assets, was approximately 8.3%. The actuarial value of assets as of December 31, 2005 was $412.8 million, which represents an actuarial loss of about $2 million.
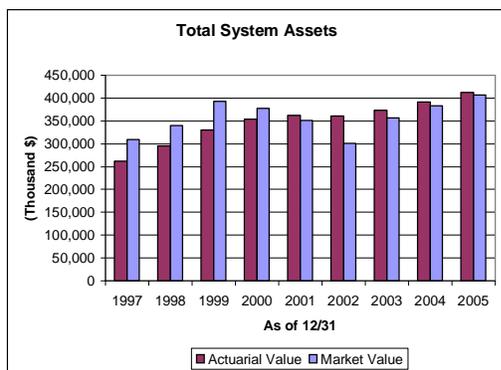
The actuarial value of assets has exceeded the market value for the last few years. However, due to strong returns in the last 3 years, the difference between the actuarial and market values has nearly been eliminated.

In general, the rate of return on the actuarial value of assets has exceeded the assumed rate of 7.75%, resulting in experience gains for the Retirement System. The impact of unfavorable market performance in prior years continues to be recognized in the rate of return on the actuarial value of assets.

Due to the asset smoothing method, there is about $6 million of deferred investment loss that has not been recognized. Absent investment returns above the 7.75% assumed rate of return in the next few years, it will gradually be reflected in the actuarial value of assets. It would require a return of about 9.3% in 2006 to eliminate the unrecognized losses in the December 31, 2006 valuation. If this does not occur, the deferred investment loss will flow through the asset smoothing method and the valuation results will show an actuarial loss on assets. This will increase the unfunded actuarial liability, absent favorable liability experience to offset it.

LIABILITIES

The actuarial liability is that portion of the present value of future benefits that will not be paid by future employer normal costs or member contributions. The difference between this liability and the asset value at the same date is referred to as the unfunded actuarial liability (UAL), or (surplus) if the asset value exceeds the actuarial liability. The unfunded actuarial liability will be reduced if the employer's contributions exceed the employer's normal cost for the year, after allowing for interest earned on the previous balance of the unfunded actuarial liability. Benefit improvements, experience gains and losses, and changes in actuarial assumptions and procedures will also impact the total actuarial liability and the unfunded portion thereof.

The Actuarial Liability and Unfunded Actuarial Liability for the System as of December 31, 2005 is:

Actuarial Liability	$414,026,582
Actuarial Value of Assets	412,822,760
Unfunded Actuarial Liability	1,203,822

Between December 31, 2004 and December 31, 2005 the change in the unfunded actuarial liability for the System was as follows (in millions):

	$(M)
UAL, December 31, 2004	0.9
+ Normal cost for year	12.2
+ Assumed investment return for year	1.0
- Actual contributions (member + city)	11.0
- Assumed investment return on contribution	0.4
= Expected Unfunded Actuarial Liability, December 31, 2005	2.7
+ Change from amendments	0.0
+ Change from assumption changes	0.0
= Expected UAL after changes	2.7
Actual UAL, December 31, 2005	1.2
Experience gain/(loss) (Expected UAL – Actual UAL)	1.5

The experience gain for the 2005 plan year of $1.5 million was the result to an actuarial loss of $2.0 million on System assets (actuarial value) and an actuarial gain of $3.5 million on System liabilities. The liability gain was largely due to fewer retirements than expected.

Analysis of the unfunded actuarial liability strictly as a dollar amount can be misleading. Another way to evaluate the unfunded actuarial liability and the progress made in its funding is to track the funded status, the ratio of the actuarial value of assets to the actuarial liability. This information for recent years is shown below (in millions). Historical information is shown in the graph following the chart.

	12/31/01	12/31/02	12/31/03	12/31/04	12/31/05
Actuarial Liability ($M)	$325.3	$340.5	$350.4	$393.4	$414.0
Actuarial Value of Assets ($M)	362.5	361.7	374.2	392.5	412.8
Funded Ratio (Assets/Liability)	111.4%	106.2%	106.8%	99.8%	99.7%
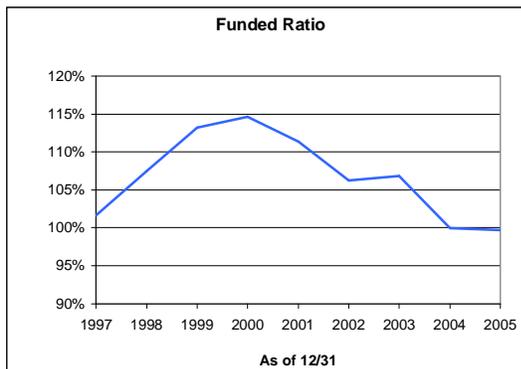
Over the past decade, the funded status of the Retirement System has both improved and declined. The assumption changes and actuarial loss in 2004 caused the funded ratio to decline. Although the surplus assets no longer exist, the System is still well funded at nearly 100%.

As mentioned earlier in this report, there is currently about $6 million of deferred investment loss which may be reflected, in part or in total, in the actuarial value of assets over the next few years. If prior deferred investment losses are recognized in the future, the unfunded actuarial liability will increase by that amount. The System's funded status will be heavily dependent on investment returns in the next few years.

CONTRIBUTION RATES

Generally, contributions to the System consist of:

- a "normal cost" for the portion of projected liabilities allocated to service of members during the year following the valuation date, by the actuarial cost method,

- an "unfunded actuarial liability or (surplus) contribution" for the excess of the portion of projected liabilities allocated to service to date over the actuarial value of assets.

Contribution rates are computed with the objective of developing costs that are level as a percentage of covered payroll. The contribution rate for fiscal year 2007 is computed based on the December 31, 2005 actuarial valuation.

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As of December 31, 2005, the actuarial liability exceeds the actuarial value of assets. In accordance with state statutes the unfunded actuarial liability may be amortized over a rolling 20-year period. The Board has elected to use this amortization period. Amortization of the unfunded actuarial liability results in a contribution in addition to the normal cost rate. However, because of the comparatively small amount of the unfunded actuarial liability, the UAL contribution required rounds to 0.2% of pay. This valuation indicates the City contributions should be 17.5%.

The current unfunded actuarial liability of $1.2 million is based on the actuarial value of assets, not market value. There is currently a difference of $6 million between the actuarial and market value of assets. Therefore, depending on the investment return for the next few years, the unfunded actuarial liability may be increased as the deferred investment losses are recognized.

A summary of the City's historical contribution rate for the system is shown below:
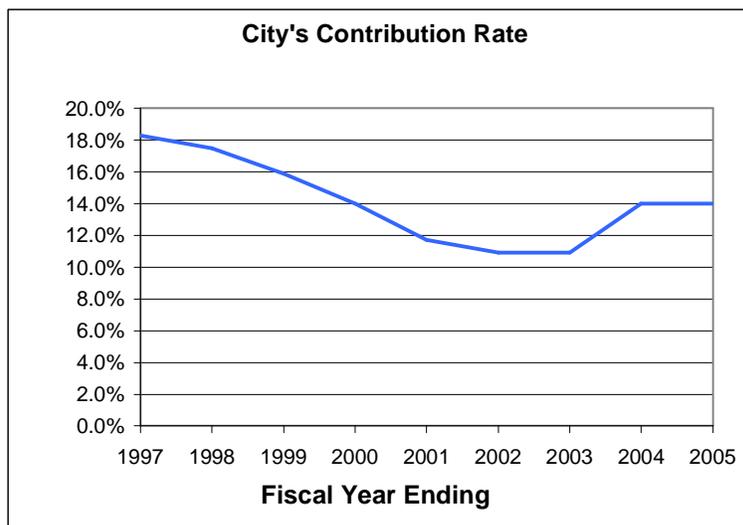
COMMENTS

The System experienced a rate of return on the market value of assets of over 8% for calendar year 2005. Despite a return in excess of the assumed rate, the actuarial value of assets remains about 2% higher than the market value. However, this is a marked improvement over the December 31, 2002 results when the actuarial value of assets was 20% greater than the market value. Due to the asset smoothing method, there remains about a $6 million difference between the market and actuarial value of assets. Because of this difference, the funded status of the System appears somewhat more favorable than it is if measured on a pure market value basis. Without investment returns above the assumed rate of 7.75% in the next few years, the deferred investment loss will eventually be recognized in the actuarial value of assets. As the deferred loss flows into the calculation of the actuarial value of assets, the required contributions could increase around 1.0%.

We conclude this Board Summary with the following exhibit which compares the principal results of the current and prior actuarial valuations.

SUMMARY OF PRINCIPAL RESULTS

1. PARTICIPANT DATA		12/31/2005 Valuation		12/31/2004 Valuation		% Change	
Number of:							
Active Members							
Police		630		639		(1.4)	%
Fire		421		426		(1.2)	%
Total		1,051		1,065		(1.3)	%
Retired Members and Beneficiaries		837		834		0.4	%
Inactive Members		29		23		26.1	%
Total Members		1,917		1,922		(0.3)	%
Annual Valuation Salaries of Active Members							
Police	$	31,008,273	$	30,503,974		1.7	%
Fire		19,908,049		19,909,909		0.0	%
Total		50,916,322		50,413,883		1.0	%
Annual Retirement Payments for Retired Members and Beneficiaries	$	17,829,449	$	17,075,332		4.4	%
2. ASSETS AND LIABILITIES							
Total Actuarial Liability	$	414,026,582	$	393,386,649		5.2	%
Market Value of Assets		406,745,584		383,074,060		6.2	%
Actuarial Value of Assets		412,822,760		392,484,697		5.2	%
Unfunded Actuarial Liability/(Surplus)		1,203,822		901,952		33.5	%
3. EMPLOYER CONTRIBUTION RATES AS A PERCENT OF PAYROLL							
Normal Cost		24.4 %		25.4 %		(3.9)	%
Member Financed		7.1 %		7.1 %		0.0	%
Employer Normal Cost		17.3 %		18.3 %		(5.5)	%
Amortization of Unfunded Actuarial Liability		0.2 %		0.1 %		100.0	%
Range of Employer Contribution Rates							
Full Normal Cost Rate		17.3 %		18.3 %		(5.5)	%
With Amortization Credit/Charge		17.5 %		18.4 %		(4.9)	%

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SECTION 2

SCOPE OF THE REPORT

This report presents the actuarial valuation of the City of Wichita Police and Fire Retirement System (WPF) as of December 31, 2005. This valuation was prepared at the request of the System's Board of Trustees. The report is based on plan provisions and actuarial assumptions that are unchanged from last year. The asset valuation method was changed to a new method, which was first reflected in the December 31, 2003 report.

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

A summary of the findings which result from this valuation is presented in the previous section. Section 3 describes the assets and investment experience of the System. Sections 4 and 5 describe how the obligations of the System are to be met under the actuarial cost method in use. Section 6 includes the information required for the financial reporting standards established by the Governmental Accounting Standards Board (GASB).

This report includes several appendices:

- Appendix A   Schedules of valuation data classified by various categories of members.

- Appendix B   A summary of the current benefit structure, as determined by the provisions of governing law on December 31, 2005.

- Appendix C   A summary of the actuarial methods and assumptions used to estimate liabilities and determine contribution rates.

- Appendix D   A glossary of actuarial terms.

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SECTION 3

ASSETS

In many respects, an actuarial valuation can be thought of as an inventory process. The inventory is taken as of the actuarial valuation date, which for this valuation is December 31, 2005. On that date, the assets available for the payment of benefits are appraised. The assets are compared with the liabilities of the System, which are generally in excess of assets. The actuarial process then leads to a method of determining the contributions needed by members and the employer in the future to balance the System assets and liabilities.

Market Value of Assets

The current market value represents the "snapshot" or "cash-out" value of System assets as of the valuation date. In addition, the market value of assets provides a basis for measuring investment performance from time to time. At December 31, 2005 the market value of assets for the System was $407 million. Table 1 is a comparison, at market values, of System assets as of December 31, 2005, and December 31, 2004, in total and by investment category. Table 2 summarizes the change in the market value of assets from December 31, 2004 to December 31, 2005.

Actuarial Value of Assets

Neither the market value of assets, representing a "cash-out" value of System assets, nor the book values of assets, representing the cost of investments, may be the best measure of the System's ongoing ability to meet its obligations.

To arrive at a suitable value for the actuarial valuation, a technique for determining the actuarial value of assets is used which dampens swings in the market value while still indirectly recognizing market values. This methodology, first adopted in the December 31, 2002 valuation, smoothes market returns by recognizing 25% of the difference between the expected value (based on the actuarial assumption) and market value. Table 3 shows the development of the actuarial value of assets (AVA) as of December 31, 2005, which was $413 million.

In the later part of the 1990's, the actuarial value of assets was lower than the market value. However, due to negative rates of return on the market value of assets during 2000 through 2002, the actuarial value of assets has been greater than the market value for the past five years. Currently there remains about $6 million difference between the actuarial and market value of assets. Absent rates of return above the assumed rate of 7.75% in the short term, the unrecognized losses (difference between the market value and actuarial value) will flow into the actuarial value of assets and create an actuarial loss in future valuations.

TABLE 1

WICHITA POLICE AND FIRE RETIREMENT SYSTEM

ANALYSIS OF NET ASSETS AT MARKET VALUE

	As of December 31, 2005		As of December 31, 2004	
	Amount ($ Millions)	% of Total	Amount ($ Millions)	% of Total
Cash & Equivalents	$ 0.5	0.1 %	$ 10.9	2.9 %
Government Securities	13.3	3.3	14.6	3.8
Corporate debt	30.8	7.6	28.8	7.5
Mortgage Backed Securities	21.8	5.4	19.3	5.0
Pooled Funds	123.9	30.5	123.5	32.2
Domestic Equity	147.0	36.1	139.5	36.4
International Equity	49.9	12.3	54.4	14.2
Real Estate	20.5	5.0	10.3	2.7
Securities Lending Collateral Pool	35.2	8.7		
Other	0.2	0.0		
Receivables	5.3	1.3	5.7	1.5
Liabilities	(41.7)	(10.3)	(23.9)	(6.2)
Total	$ 406.7	100.0 %	$ 383.1	100.0 %

TABLE 2

WICHITA POLICE AND FIRE RETIREMENT SYSTEM

**SUMMARY OF CHANGES IN NET ASSETS
DURING YEAR ENDED DECEMBER 31, 2005**

(Market Value)

1. Market Value of Assets as of December 31, 2004	$	383,074,060
2. Contributions:		
a. Members	$	3,652,348
b. City		7,308,916
c. Other		0
d. Total	$	10,961,264
[2(a) + 2(b) + 2(c)]		
3. Investment Income		
a. Interest and Dividends	$	9,232,331
b. Net Appreciation in Fair Value		24,277,928
c. Commission Recapture		44,996
d. Securities Lending Income		113,388
e. Total	$	33,668,643
[3(a) + 3(b) + 3(c) + 3(d)]		
4. Expenditures		
a. Refunds of Member Contributions	$	313,219
b. Benefits Paid:		
(1) Pension and Death Benefits		17,428,803
(2) Back DROP Payments		977,977
c. Administrative Expenses		271,426
d. Investment Expenses		1,966,958
e. Total	$	20,958,383
[4(a) + 4(b) + 4(c) + 4(d)]		
5. Net Change		
[2(d) + 3(e) - 4(e)]	$	23,671,524
6. Market Value of Assets as of December 31, 2005	$	406,745,584
(1) + (5)		

TABLE 3

WICHITA POLICE AND FIRE RETIREMENT SYSTEM

**DEVELOPMENT OF ACTUARIAL VALUE
OF ASSETS**

As of December 31, 2005

1. Actuarial Value of Assets as of December 31, 2004	$	392,484,697
2. Actual Contribution/Disbursements		
a. Contributions		10,961,264
b. Benefit Payments and Refunds		(18,719,999)
c. Net		(7,758,735)
3. Expected Value of Assets as of December 31, 2005 $[(1) \times 1.0775] + [(2c) \times (1.0775)^{.5}]$		414,848,485
4. Market Value of Assets as of December 31, 2005		406,745,584
5. Difference Between Market and Expected Values (4) - (3)		(8,102,901)
6. Actuarial Value of Assets as of December 31, 2005 (3) + [(5) x 25%]		412,822,760
Actuarial Value of Assets divided by Market Value of Assets		101.5%
Market Value of Assets less Actuarial Value of Assets	$	(6,077,176)

SECTION 4

SYSTEM LIABILITIES

In the previous section, an actuarial valuation was compared with an inventory process, and an analysis was given of the inventory of assets of the System as of the valuation date, December 31, 2005. In this section, the discussion will focus on the commitments of the System, which are referred to as its liabilities.

Table 4 contains an analysis of the actuarial present value of all future benefits (PVFB) for contributing members, inactive members, retirees and their beneficiaries.

The liabilities summarized in Table 4 include the actuarial present value of all future benefits expected to be paid with respect to each member. For an active member, this value includes the measurement of both benefits already earned and future benefits to be earned. For all members, active and retired, the value extends over benefits earnable and payable for the rest of their lives and for the lives of the surviving beneficiaries.

All liabilities reflect the benefit provisions in place as of December 31, 2005.

Actuarial Liability

A fundamental principle in financing the liabilities of a retirement program is that the cost of its benefits should be related to the period in which benefits are earned, rather than to the period of benefit distribution. An actuarial cost method is a mathematical technique that allocates the present value of future benefits into annual costs. In order to do this allocation, it is necessary for the funding method to "breakdown" the present value of future benefits into two components:

(1) that which is attributable to the past and

(2) that which is attributable to the future.

Actuarial terminology calls the part attributable to the past the "past service liability" or the "actuarial liability". The portion allocated to the future is known as the present value of future normal costs, with the specific piece of it allocated to the current year being called the "normal cost". Table 5 contains the calculation of actuarial liability for the System. The Entry Age Normal actuarial cost method is used to develop the actuarial liability.

TABLE 4

WICHITA POLICE AND FIRE RETIREMENT SYSTEM

PRESENT VALUE OF FUTURE BENEFITS (PVFB)
AS OF DECEMBER 31, 2005

	Plans A and B	Plan C	Total
1. Active employees			
a. Retirement Benefit	$ 40,892,751	$ 247,051,358	$ 287,944,109
b. Pre-Retirement Death Benefit	40,934	4,025,730	4,066,664
c. Withdrawal Benefit	0	8,005,196	8,005,196
d. Disability Benefit	339,973	38,404,488	38,744,461
e. Total	$ 41,273,658	$ 297,486,772	$ 338,760,430
2. Inactive Vested Members	$ 93,472	$ 7,667,932	$ 7,761,404
3. Inactive Nonvested Members	$ 0	$ 0	$ 0
4. In Pay Members			
a. Retirees	$ 144,603,662	$ 6,670,436	$ 151,274,098
b. Disabled Members	16,402,076	15,416,358	31,818,434
c. Beneficiaries	16,871,441	2,834,691	19,706,132
d. Total	$ 177,877,179	$ 24,921,485	$ 202,798,664
5. Total Present Value of Future Benefits			
(1e) + (2) + (3) + (4d)	$ 219,244,309	$ 330,076,189	$ 549,320,498

TABLE 5

WICHITA POLICE AND FIRE RETIREMENT SYSTEM

ACTUARIAL LIABILITY
AS OF DECEMBER 31, 2005

	Plans A and B	Plan C	Total
1. Active employees			
a. Present Value of Future Benefits	$ 41,273,658	$ 297,486,772	$ 338,760,430
b. Present Value of Future Normal Costs	2,974,646	132,319,270	135,293,916
c. Actuarial Liability			
(1a) - (1b)	38,299,012	165,167,502	203,466,514
2. Inactive Vested Members	$ 93,472	$ 7,667,932	$ 7,761,404
3. Inactive Nonvested Members	$ 0	$ 0	$ 0
4. In Pay Members			
a. Retirees	$ 144,603,662	$ 6,670,436	$ 151,274,098
b. Disabled Members	16,402,076	15,416,358	31,818,434
c. Beneficiaries	16,871,441	2,834,691	19,706,132
d. Total	$ 177,877,179	$ 24,921,485	$ 202,798,664
5. Total Actuarial Liability			
(1c) + (2) + (3) + (4d)	$ 216,269,663	$ 197,756,919	$ 414,026,582

SECTION 5

EMPLOYER CONTRIBUTIONS

The previous two sections were devoted to a discussion of the assets and liabilities of the System. A comparison of Tables 3 and 4 indicates that current assets fall short of meeting the present value of future benefits (total liability). This is expected in all but a completely closed fund, where no further contributions are anticipated. In an active system, there will almost always be a difference between the actuarial value of assets and total liabilities. This deficiency has to be made up by future contributions and investment returns. An actuarial valuation sets out a schedule of future contributions that will deal with this deficiency in an orderly fashion.

The method used to determine the incidence of the contributions in various years is called the actuarial cost method. Under an actuarial cost method the contributions required to meet the difference between current assets and current liabilities are allocated each year between two elements: (1) the normal cost rate and (2) the unfunded actuarial liability contribution rate.

The term "fully funded" is often applied to a system in which contributions at the normal cost rate are sufficient to pay for the benefits of existing employees as well as for those of new employees. More often than not, systems are not fully funded, either because of past benefit improvements that have not been completely funded or because of actuarial deficiencies that have occurred because experience has not been as favorable as anticipated. Under these circumstances, an unfunded actuarial liability (UAL) exists. Likewise, when the actuarial value of assets is greater than the actuarial liability, a surplus exists.

Description of Contribution Rate Components

The individual Entry Age Normal (EAN) actuarial cost method is used for the valuation. Under that method, the normal cost for each year from entry age to assumed exit age is a constant percentage of the member's year by year projected compensation. The portion of the present value of future benefits not provided by the present value of future normal costs is the actuarial liability. The unfunded actuarial liability/(surplus) represents the difference between the actuarial liability and the actuarial value of assets as of the valuation date. The unfunded actuarial liability is calculated each year and reflects experience gains/losses.

In general, contributions are computed in accordance with a level percent-of-payroll funding objective. The contribution rates based on this December 31, 2005 actuarial valuation will be used to determine employer contribution rates to the City of Wichita Police and Fire Retirement System for fiscal year 2007. In this context, the term "contribution rate" means the percentage, which is applied to a particular active member payroll to determine the actual employer contribution amount (i.e., in dollars) for the group.

As of December 31, 2005, the actuarial liability was greater than the valuation assets so an unfunded actuarial liability exists. State statutes permit any unfunded actuarial liability in municipal police and fire retirement systems to be amortized over a rolling 20-year period. The Board has elected to use the rolling 20-year amortization period as part of their funding policy. The amortization of the unfunded actuarial liability results in an employer contribution that is greater than the normal cost rate.

Contribution Rate Summary

In Table 6 the amortization payment related to the unfunded actuarial liability, as of December 31, 2005, is developed. Table 7 develops the normal cost rate for the System. The derivation of the range of contribution rates for the City is shown in Table 8. Table 9 shows the historical summary of the City's contribution rates. Table 10 develops the experience gain/(loss) for the year ended December 30, 2005.

The rates shown in this report are based on the actuarial assumptions and cost methods described in Appendix C.

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TABLE 6

WICHITA POLICE AND FIRE RETIREMENT SYSTEM

DECEMBER 31, 2005 VALUATION

DERIVATION OF UNFUNDED ACTUARIAL LIABILITY CONTRIBUTION RATE

1. Actuarial Accrued Liability	$	414,026,582
2. Actuarial Value of Assets	$	412,822,760
3. Unfunded Actuarial Liability/(Surplus Assets)	$	1,203,822
4. Payment (Adjusted to Mid-Year) to Amortize Unfunded Actuarial Liability/(Surplus) Over 20 Years *	$	82,290
5. Total Projected Payroll for the Year	$	52,049,333
6. Amortization Payment as a Percent of Payroll		0.2 %

* In accordance with State statutes, unfunded actuarial liability assets may be amortized over a rolling 20-year period. The Board has elected to use this period.

TABLE 7

WICHITA POLICE AND FIRE RETIREMENT SYSTEM

DERIVATION OF NORMAL COST RATE

Normal Cost at December 31, 2005		
Service pensions	$ 8,928,270	
Disability pensions	2,436,271	
Survivor pensions	275,356	
Termination benefits		
- Deferred service pensions	275,439	
- Return of member contributions	268,434	
Total Normal Cost	$ 12,183,770	
Normal Cost Adjusted to Mid-Year	$ 12,647,082	
Projected Payroll for Members Under Certain Retirement Age	$ 51,767,458	*
Total Normal Cost Rate for Year	24.4%	

* Effective with the 12/31/05 valuation, this amount includes payroll
for all Plan A members who are past certain retirement age under
Plan A assumptions but not under Plan C assumptions.

TABLE 8

**WICHITA POLICE AND FIRE RETIREMENT SYSTEM
EMPLOYER CONTRIBUTION RATES
FOR FISCAL YEAR
COMMENCING IN 2007**

	Contribution Requirements as % of Payroll	
Normal Cost		
Service pensions	17.8	%
Disability pensions	4.9	%
Survivor pensions	0.6	%
Termination benefits		
- Deferred service pensions	0.6	%
- Return of member contributions	0.5	%
Total Normal Cost	24.4	%
Unfunded Actuarial Accrued Liability		
Retired members and beneficiaries [1]	0.0	%
Active and former members [2]	0.2	%
Total UAAL Contribution	0.2	%
Total Contribution Requirement		
Member Financed Portion [3]	7.1	%
City Financed Portion	17.5	%
Total	24.6	%

(1) Actuarial accrued liability for retired members and beneficiaries was fully funded as of December 31, 2005.

(2) The excess of the actuarial liabilities over actuarial value of asset is financed as a level percent of active member payroll over a rolling 20-year period.

(3) The weighted average of member contribution rates: 8.0% for Plan A, 6.0% for Plan B, and 7.0% for Plan C.

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TABLE 9

WICHITA POLICE AND FIRE RETIREMENT SYSTEM

HISTORICAL SUMMARY OF CITY CONTRIBUTION RATES

Valuation Date	Fiscal Year	City Contributions as Percents of Active Member Pensionable Payroll	
		Funding Objective	Amortization Credit
11/30/90	1992	23.4%	-%
11/30/91	1993	22.9	-
11/30/92	1994	23.3	-
11/30/93	1995	22.7	-
11/30/94	1996	22.6	-
12/31/95	1997	18.3*	-
12/31/96	1998	17.5	-
12/31/97	1999	15.2 – 15.9	(0.7)
12/31/98	2000	12.3 – 15.9	(3.6)
12/31/99**	2001	9.6 – 16.8	(7.2)
12/31/00	2002	8.2 – 16.8	(8.7)
12/31/01	2003	10.0 – 16.8	(6.8)
12/31/02	2004	14.0 – 17.0	(3.0)
12/31/03	2005	13.6 – 17.0	(3.4)
12/31/04#	2006	18.4	-
12/31/05	2007	17.5	-

*Reflects allocation of assets to fully fund retired life liabilities.
**Includes benefit provision and assumption changes and 1% decrease in member contribution rate.
#Reflects assumption changes and elimination of surplus assets.

TABLE 10

WICHITA POLICE AND FIRE RETIREMENT SYSTEM

DERIVATION OF SYSTEM EXPERIENCE GAIN/(LOSS)

		($M) Year Ended 12/30/05
(1)	UAL* at start of year	0.9
(2) +	Normal cost for year	12.2
(3) +	Assumed investment return on (1) & (2)	1.0
(4) -	Actual contributions (member + City)	11.0
(5) -	Assumed investment return on (4)	0.4
(6) =	Expected UAL at end of year	2.7
(7) +	Increase (decr.) from amendments	0.0
(8) +	Increase (decr.) from assumption changes	0.0
(9) =	Expected UAL after changes	2.7
(10) =	Actual UAL at year end	1.2
(11) =	Experience gain (loss) (9) – (10)	1.5**
(12) =	Percent of beginning of year AL	0.4%

 * *Unfunded Actuarial Liability*

** *This amount reflects the net impact of about $2.0 million loss on the actuarial value of assets and a $3.5 million gain on liabilities.*

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SECTION 6

ACCOUNTING INFORMATION

The actuarial accrued liability is a measure intended to help the reader assess (i) a retirement system's funded status on a going concern basis, and (ii) progress being made toward accumulating the assets needed to pay benefits as due. Allocation of the actuarial present value of projected benefits between past and future service was based on service using the individual entry-age actuarial cost method. Assumptions, including projected pay increases, were the same as used to determine the System's level percent of payroll annual required contribution between entry-age and assumed exit age. Entry-age was established by subtracting credited service from current age on the valuation date.

The preceding methods comply with the financial reporting standards established by the Governmental Accounting Standards Board.

The entry-age actuarial liability was determined as part of an actuarial valuation of the plan as of December 31, 2005. Significant actuarial assumptions used in determining the entry-age actuarial liability include:

(a) a rate of return on the investment of present and future assets of 7.75% per year compounded annually,

(b) projected salary increases of 4.50% per year compounded annually, (4.00% attributable to inflation, and 0.50% attributable to productivity),

(c) additional projected salary increases of 0.0% to 2.5% per year attributable to seniority/merit, and

(d) the assumption that benefits will increase 2.0% per year of retirement, non-compounded commencing 36 months after retirement.

Actuarial Liability:

Active Members	$203,446,514
Retired members and beneficiaries currently receiving benefits	202,798,664
Vested terminated members not yet receiving benefits	7,761,404
Total Actuarial Liability	414,026,582
Actuarial Value of Assets (market value was $406,745,584)	412,822,760
Assets in Excess of Actuarial Liability	1,203,822

During the year ended December 30, 2005, the Plan experienced a net change of $20.6 million in the actuarial liability.

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TABLE 11

WICHITA POLICE AND FIRE RETIREMENT SYSTEM

REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF FUNDING PROGRESS

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded AAL (b)–(a)	Funded Ratio (a)/(b)	Active Member Covered Payroll (c)	Unfunded AAL as a Percentage of Active Member Covered Payroll ((b-a)/c)
11/30/90*	$136,766	$173,071	$ 36,305	79.0%	$ 22,408	162.0%
11/30/91	152,162	183,423	31,261	83.0	23,675	132.0
11/30/92	165,132	198,656	33,524	83.1	25,000	134.1
11/30/93	180,457	208,966	28,509	86.4	26,008	109.6
11/30/94	192,668	220,596	27,928	87.3	27,819	100.4
12/31/95*	213,431	231,372	17,941	92.2	29,749	60.3
12/31/96	237,554	247,408	9,854	96.0	33,366	29.5
12/31/97	262,815	258,706	(4,109)	101.6	35,502	(11.6)
12/31/98	295,625	274,900	(20,725)	107.5	36,566	(56.7)
12/31/99*	330,072	291,633	(38,439)	113.2	37,969	(101.2)
12/31/00	354,044	308,894	(45,150)	114.6	38,613	(116.9)
12/31/01	362,493	325,335	(37,158)	111.4	42,286	(87.9)
12/31/02	361,687	340,524	(21,163)	106.2	45,696	(46.3)
12/31/03	374,171	350,444	(23,726)	106.8	45,876	(51.7)
12/31/04*	392,485	393,387	902	99.8	50,414	1.8
12/31/05	412,823	414,027	1,204	99.7	52,207	2.3

Dollar amounts are in thousands.

*After changes in benefits and/or actuarial assumptions and/or actuarial cost methods.

Analysis of the dollar amounts of actuarial value of assets, actuarial accrued liability, or actuarial accrued liability in isolation can be misleading. Expressing the actuarial value of assets as a percentage of the actuarial accrued liability provides one indication of the System's funded status on a going-concern basis. Analysis of this percentage over time indicates whether the System is becoming financially stronger or weaker. Generally, the greater this percentage, the stronger the plan's funding. The unfunded actuarial accrued liability and annual covered payroll are both affected by inflation. Expressing the unfunded actuarial accrued liability as a percentage of covered payroll approximately adjusts for the effects of inflation and aids analysis of the progress being made in accumulating sufficient assets to pay benefits when due. Generally, the smaller this percentage, the stronger the plan's funding.

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TABLE 12

WICHITA POLICE AND FIRE RETIREMENT

REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF EMPLOYER CONTRIBUTIONS

Fiscal Year	Actuarial Valuation Date	Annual Required Contribution	Percent Contribution
1995	11/30/93	$7,391,786	100.0
1996	11/30/94	7,186,932	100.0
1997	12/31/95	6,343,027	100.0
1998	12/31/96	6,427,744	100.0
1999	12/31/97	6,043,455	100.0
2000	12/31/98	5,540,575	100.0
2001	12/31/99	4,796,863	100.0
2002	12/31/00	4,746,504	100.0
2003	12/31/01	5,043,505	100.0
2004	12/31/02	6,925,467	100.0
2005	12/31/03	7,308,916	100.0

Notes to Required Supplementary Information
Summary of Actuarial Methods and Assumptions

Valuation Date	December 31, 2005
Actuarial Cost Method	Individual Entry Age Normal
Amortization Method	Level percent of payroll, open
Remaining Amortization Period	20 years
Asset Valuation Method	Expected Value + 25% of (Market – Expected Values)

Actuarial Assumptions:
Investment Rate of Return*	7.75%
Projected Salary Increases*	4.50% - 7.00%
* Includes Inflation of	4.00%
Cost-of-Living Adjustments	2.00% non-compounding commencing 36 months after retirement

TABLE 13

WICHITA POLICE AND FIRE RETIREMENT SYSTEM

SOLVENCY TEST

	Aggregate Actuarial Liability For				Portion of Actuarial Liabilities Covered by Reported Assets		
Valuation Date	(1) Active Member Contributions	(2) Retirants and Beneficiaries*	(3) Active Members (Employer Financed Portion)	Reported Valuation Assets	(1)	(2)	(3)
11/30/93	$17,293,762	$120,075,516	$71,956,393	$180,457,134	100.0%	100.0%	59.9%
11/30/94	18,003,627	127,670,273	74,921,662	192,667,974	100.0	100.0	62.7
12/31/95	19,597,012	132,215,980	79,559,050	213,431,416	100.0	100.0	77.4
12/31/96	20,807,624	141,902,560	84,497,686	237,553,602	100.0	100.0	88.6
12/31/97	22,518,199	146,068,362	90,119,236	262,814,796	100.0	100.0	104.6
12/31/98	23,845,658	157,021,415	94,033,095	295,624,986	100.0	100.0	122.0
12/31/99	24,759,118	170,478,501	96,395,412	330,071,866	100.0	100.0	139.9
12/31/00	27,152,206	183,463,718	98,277,967	354,044,311	100.0	100.0	145.9
12/31/01	27,694,761	183,034,623	114,605,637	362,493,060	100.0	100.0	132.4
12/31/02	34,440,696	182,063,498	124,019,921	361,687,109	100.0	100.0	117.1
12/31/03	37,027,041	186,930,565	126,486,746	374,170,781	100.0	100.0	118.8
12/31/04	40,959,525	201,051,248	151,375,876	392,484,697	100.0	100.0	99.4
12/31/05	44,057,922	210,560,068	158,204,770	412,822,760	100.0	100.0	99.2

During the twelve months ended December 31, 2005, the City of Wichita Police and Fire Retirement System generated a net experience gain of $1.5 million dollars. The amount is 0.4% of the actuarial liability at the beginning of the year.

*Includes vested terminated members

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APPENDIX A

SUMMARY OF MEMBERSHIP DATA

MEMBER DATA RECONCILIATION
December 31, 2004 to December 31, 2005

The number of members included in the valuation, as summarized in the table below, is in accordance with the data submitted by the System for members as of the valuation date.

	Active Participants		Retirees & Beneficiaries		Terminated Vested		Total
	Police	Fire	Police	Fire	Police	Fire	
Members as of 12/31/04	639	426	412	422	11	12	1,922
New Members	+19	+17	+2	+3	0	0	+41
Terminations							
Refunded	-18	-9	0	0	0	0	-27
Deferred Vested	-4	-3	0	0	+4	+3	0
Completion of payments to minor child	0	0	-1	0	0	0	-1
Retirements							
Service	-5	-8	+6	+10	-1	-2	0
Disability	-1	-1	+1	+1	0	0	0
Deaths							
Cashed Out	0	0	0	0	0	0	0
With Beneficiary	0	-1	-2	-2	0	0	-5
Without Beneficiary	0	0	-7	-9	0	0	-16
Data Adjustments	0	0	-1	+2	0	+2	+3
Members as of 12/31/05	**630**	**421**	**410**	**427**	**14**	**15**	**1,917**

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Consultants and Actuaries

WICHITA POLICE AND FIRE RETIREMENT SYSTEM
SUMMARY OF ACTIVE MEMBERS
as of December 31, 2005

| Age	Number			Salaries		
	Fire	Police	Total	Fire	Police	Total
Under 25	12	11	23	$ 400,146	$ 410,845	$ 810,991
25 to 29	43	86	129	1,479,714	3,344,593	4,824,307
30 to 34	64	140	204	2,445,069	5,940,576	8,385,645
35 to 39	68	168	236	3,117,377	8,307,856	11,425,233
40 to 44	78	100	178	3,840,699	5,449,407	9,290,106
45 to 49	79	82	161	4,184,578	5,007,673	9,192,251
50 to 54	49	33	82	2,712,418	1,979,348	4,691,766
55 & Up	28	10	38	1,728,048	567,975	2,296,023
Total	421	630	1,051	$ 19,908,049	$ 31,008,273	$ 50,916,322

Average Salary by Age
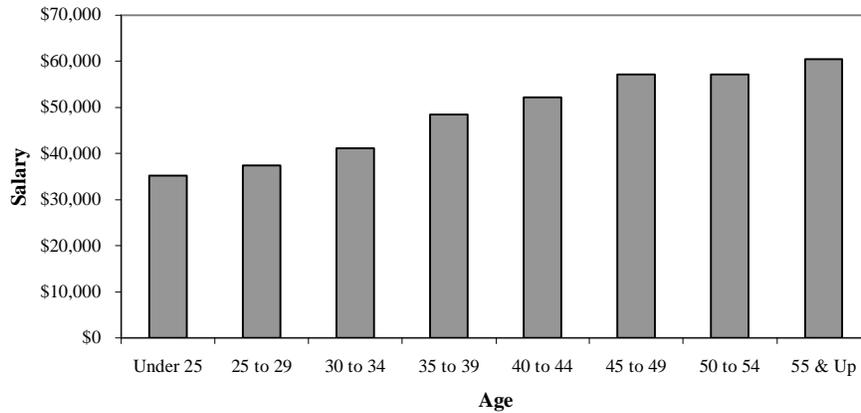
WICHITA POLICE AND FIRE RETIREMENT SYSTEM
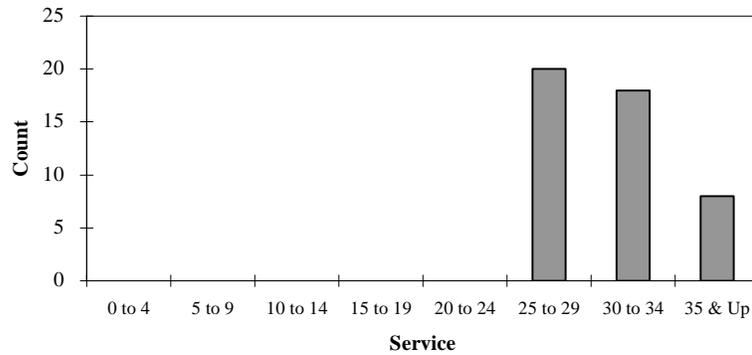### DISTRIBUTION OF ACTIVE MEMBERS
as of December 31, 2005

Fire - Plans A & B

				Service					
Age	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Up	Total
Under 25	0	0	0	0	0	0	0	0	0
25 to 29	0	0	0	0	0	0	0	0	0
30 to 34	0	0	0	0	0	0	0	0	0
35 to 39	0	0	0	0	0	0	0	0	0
40 to 44	0	0	0	0	0	0	0	0	0
45 to 49	0	0	0	0	0	5	0	0	5
50 to 54	0	0	0	0	0	13	7	0	20
55 & Up	0	0	0	0	0	2	11	8	21
Total	0	0	0	0	0	20	18	8	46

Age Distribution
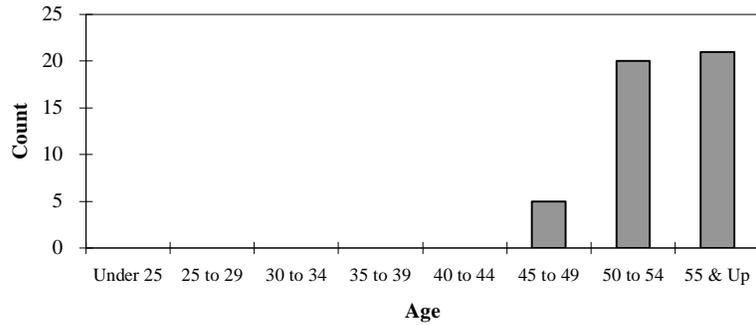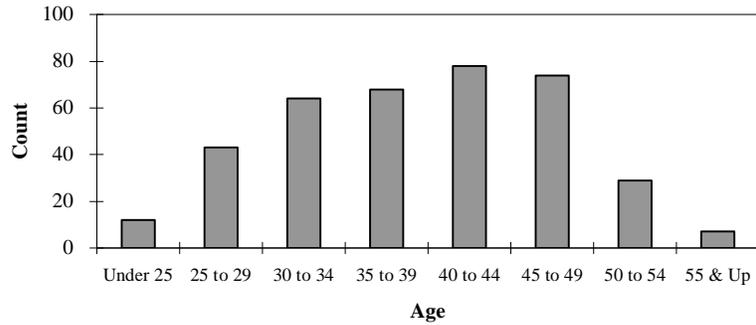

Service Distribution

APPENDIX A

WICHITA POLICE AND FIRE RETIREMENT SYSTEM
DISTRIBUTION OF ACTIVE MEMBERS
as of December 31, 2005

Fire - Plan C

Age	Service								Total
	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Up	
Under 25	12	0	0	0	0	0	0	0	12
25 to 29	40	3	0	0	0	0	0	0	43
30 to 34	23	30	11	0	0	0	0	0	64
35 to 39	3	29	22	14	0	0	0	0	68
40 to 44	6	9	19	31	12	1	0	0	78
45 to 49	2	5	7	20	24	16	0	0	74
50 to 54	0	3	2	7	6	11	0	0	29
55 & Up	0	4	0	1	2	0	0	0	7
Total	86	83	61	73	44	28	0	0	375

Age Distribution

Service Distribution

WICHITA POLICE AND FIRE RETIREMENT SYSTEM
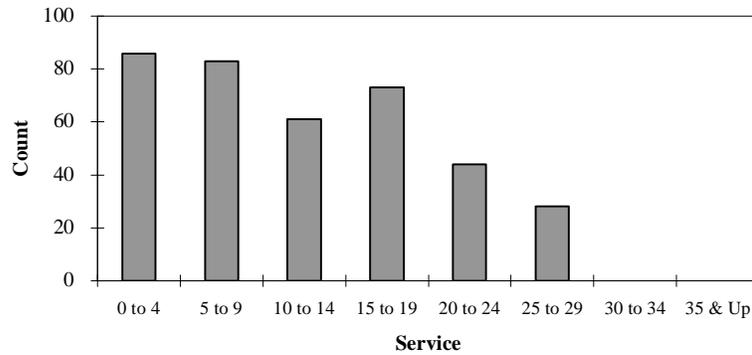### DISTRIBUTION OF ACTIVE MEMBERS
as of December 31, 2005

Fire

				Service					
Age	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Up	Total
Under 25	12	0	0	0	0	0	0	0	12
25 to 29	40	3	0	0	0	0	0	0	43
30 to 34	23	30	11	0	0	0	0	0	64
35 to 39	3	29	22	14	0	0	0	0	68
40 to 44	6	9	19	31	12	1	0	0	78
45 to 49	2	5	7	20	24	21	0	0	79
50 to 54	0	3	2	7	6	24	7	0	49
55 & Up	0	4	0	1	2	2	11	8	28
Total	86	83	61	73	44	48	18	8	421

Age Distribution
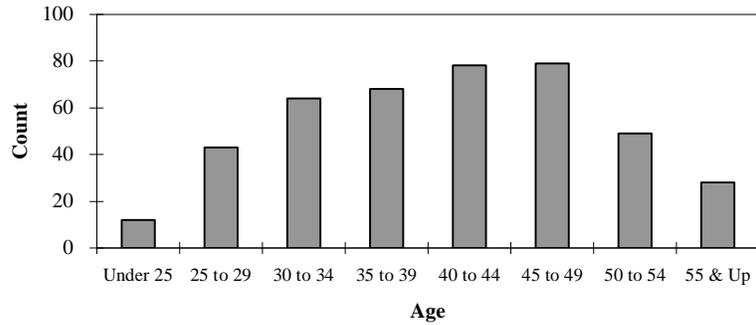
Service Distribution

WICHITA POLICE AND FIRE RETIREMENT SYSTEM
DISTRIBUTION OF ACTIVE MEMBERS
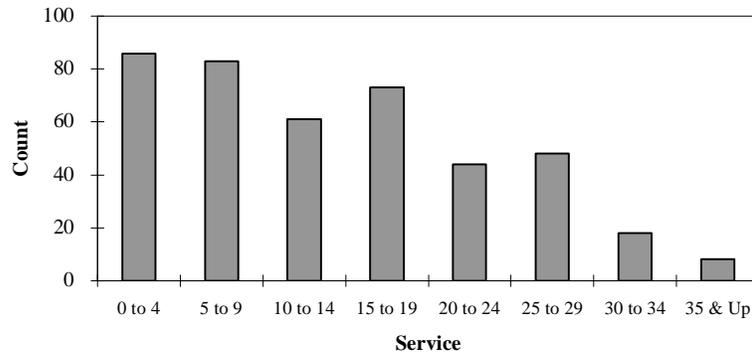## as of December 31, 2005

Police - Plans A &B

Age	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Up	Total
Under 25	0	0	0	0	0	0	0	0	0
25 to 29	0	0	0	0	0	0	0	0	0
30 to 34	0	0	0	0	0	0	0	0	0
35 to 39	0	0	0	0	0	0	0	0	0
40 to 44	0	0	0	0	0	0	0	0	0
45 to 49	0	0	0	0	0	1	0	0	1
50 to 54	0	0	0	0	0	8	1	0	9
55 & Up	0	0	0	0	0	4	3	0	7
Total	0	0	0	0	0	13	4	0	17

Age Distribution

Service Distribution
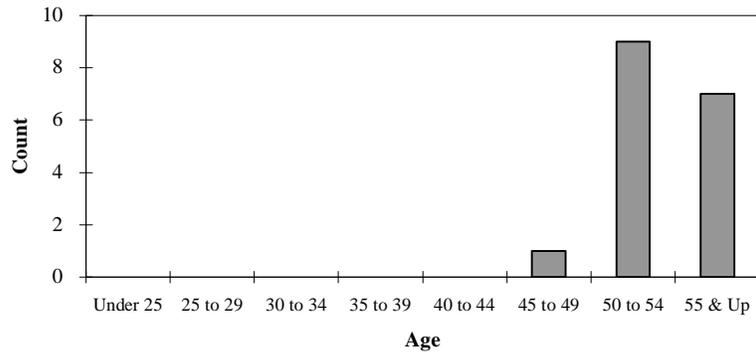
WICHITA POLICE AND FIRE RETIREMENT SYSTEM
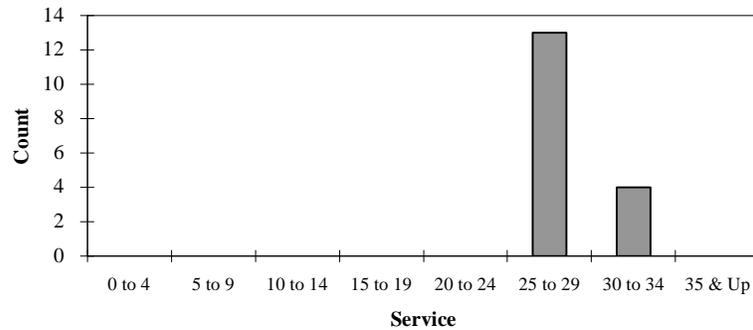## DISTRIBUTION OF ACTIVE MEMBERS
as of December 31, 2005

Police - Plan C

Age	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Up	Total
Under 25	11	0	0	0	0	0	0	0	11
25 to 29	69	17	0	0	0	0	0	0	86
30 to 34	48	85	7	0	0	0	0	0	140
35 to 39	18	54	78	18	0	0	0	0	168
40 to 44	3	10	29	48	10	0	0	0	100
45 to 49	1	5	3	20	38	14	0	0	81
50 to 54	0	1	3	5	6	9	0	0	24
55 & Up	1	0	1	0	0	1	0	0	3
Total	151	172	121	91	54	24	0	0	613

Service (column group header over 0 to 4 through 35 & Up)

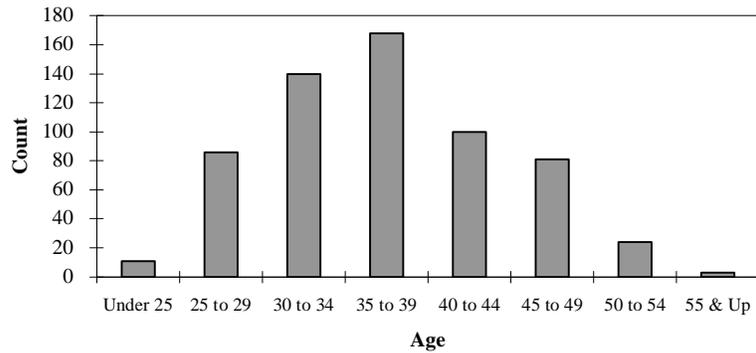**Age Distribution**

Service Distribution

APPENDIX A

WICHITA POLICE AND FIRE RETIREMENT SYSTEM
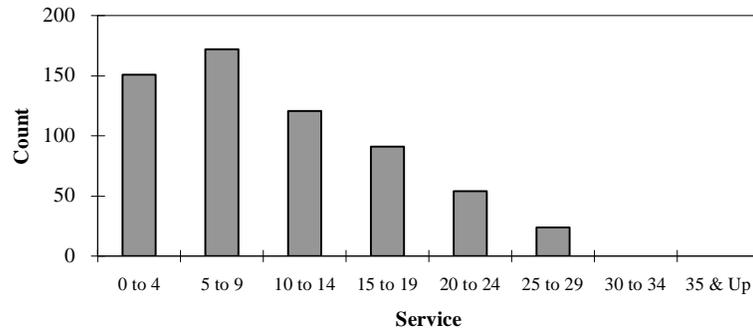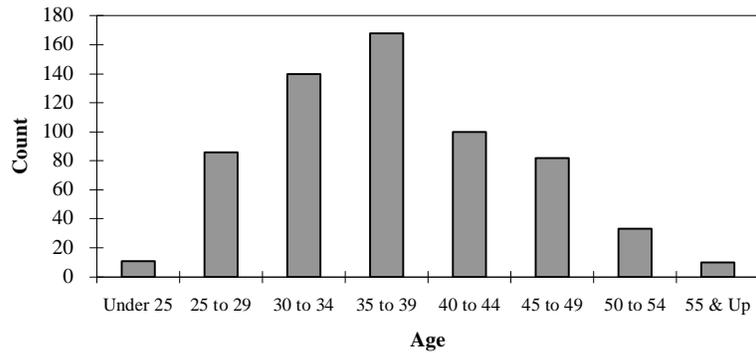## DISTRIBUTION OF ACTIVE MEMBERS
as of December 31, 2005

Police

Age	Service 0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Up	Total
Under 25	11	0	0	0	0	0	0	0	11
25 to 29	69	17	0	0	0	0	0	0	86
30 to 34	48	85	7	0	0	0	0	0	140
35 to 39	18	54	78	18	0	0	0	0	168
40 to 44	3	10	29	48	10	0	0	0	100
45 to 49	1	5	3	20	38	15	0	0	82
50 to 54	0	1	3	5	6	17	1	0	33
55 & Up	1	0	1	0	0	5	3	0	10
Total	151	172	121	91	54	37	4	0	630

Age Distribution

Service Distribution

WICHITA POLICE AND FIRE RETIREMENT SYSTEM
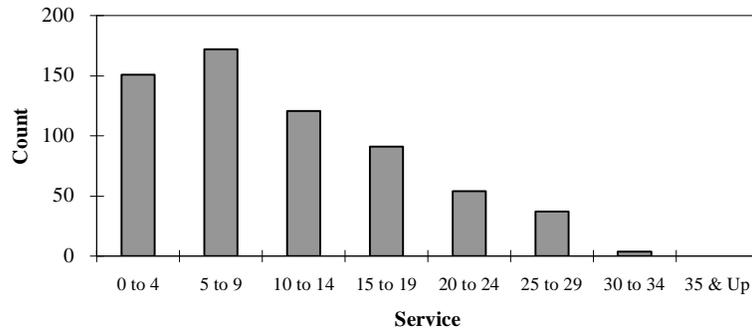## DISTRIBUTION OF ACTIVE MEMBERS
as of December 31, 2005

Fire & Police

				Service					
Age	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Up	Total
Under 25	23	0	0	0	0	0	0	0	23
25 to 29	109	20	0	0	0	0	0	0	129
30 to 34	71	115	18	0	0	0	0	0	204
35 to 39	21	83	100	32	0	0	0	0	236
40 to 44	9	19	48	79	22	1	0	0	178
45 to 49	3	10	10	40	62	36	0	0	161
50 to 54	0	4	5	12	12	41	8	0	82
55 & Up	1	4	1	1	2	7	14	8	38
Total	237	255	182	164	98	85	22	8	1,051

Age Distribution
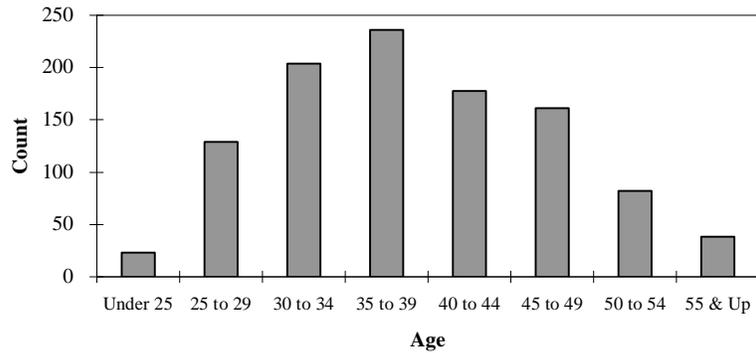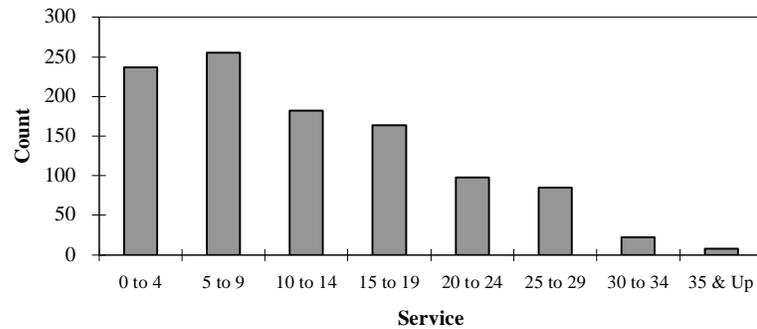
Service Distribution
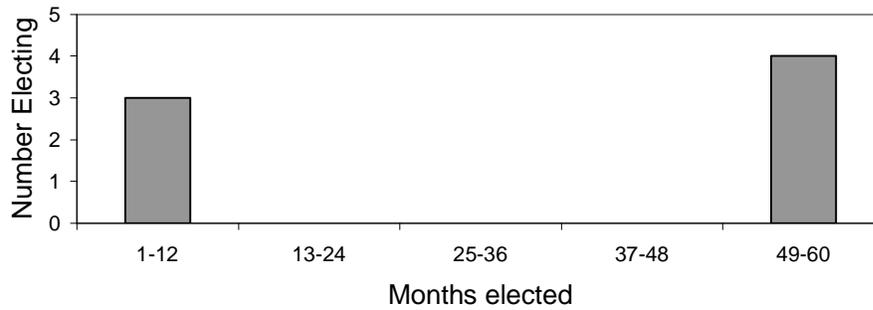
APPENDIX A

WICHITA POLICE AND FIRE RETIREMENT SYSTEM
BackDROP Experience for the 2005 Plan Year

Fire

Number Electing BackDROP

Age	Final Benefit as a Proportion of Final Average Pay					Total
	50%-55%	55%-60%	60%-65%	65%-70%	70%-75%	
Under 55	0	0	1	2	0	3
55-59	0	0	0	2	2	4
60-64	0	0	0	0	0	0
65+	0	0	0	0	0	0
Total	0	0	1	4	2	7

Distribution of BackDROP Election Period

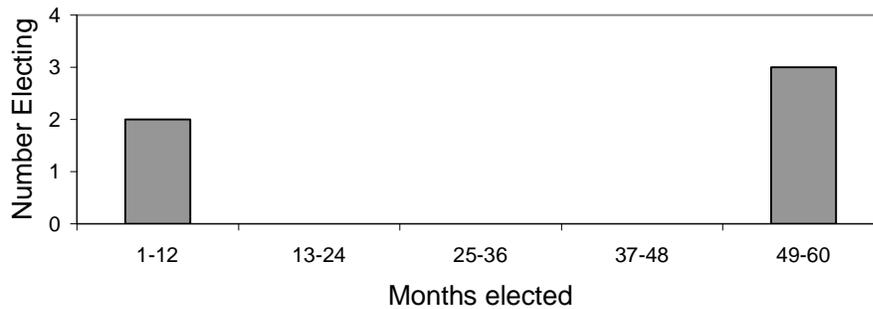Milliman

APPENDIX A

WICHITA POLICE AND FIRE RETIREMENT SYSTEM
BackDROP Experience for the 2005 Plan Year

Police

Number Electing BackDROP

Age	Final Benefit as a Proportion of Final Average Pay					Total
	50%-55%	55%-60%	60%-65%	65%-70%	70%-75%	
Under 55	0	0	0	0	3	3
55-59	0	0	0	0	2	2
60-64	0	0	0	0	0	0
65+	0	0	0	0	0	0
Total	0	0	0	0	5	5

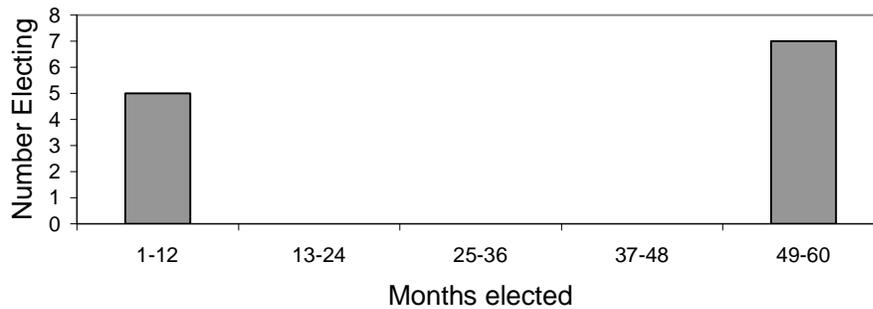**Distribution of BackDROP Election Period**

WICHITA POLICE AND FIRE RETIREMENT SYSTEM
BackDROP Experience for the 2005 Plan Year

Fire & Police

Number Electing BackDROP

Age	Final Benefit as a Proportion of Final Average Pay					Total
	50%-55%	55%-60%	60%-65%	65%-70%	70%-75%	
Under 55	0	0	1	2	3	6
55-59	0	0	0	2	4	6
60-64	0	0	0	0	0	0
65+	0	0	0	0	0	0
Total	0	0	1	4	7	12

**Distribution of BackDROP Election Period**

WICHITA POLICE AND FIRE RETIREMENT SYSTEM
SUMMARY OF DEFERRED VESTED MEMBERS
as of December 31, 2005

Age	Number				Current Monthly Benefit at Retirement		
	Fire	Police	Total		Fire	Police	Total
Under 25	0	0	0	$	-	$ -	$ -
25 to 29	0	0	0		-	-	-
30 to 34	0	0	0		-	-	-
35 to 39	3	1	4		2,961	1,512	4,474
40 to 44	3	2	5		5,615	3,392	9,006
45 to 49	6	9	15		14,537	21,363	35,900
50 to 54	3	2	5		2,878	2,725	5,603
55 & Up	0	0	0		-	-	-
Total	15	14	29	$	25,991	$ 28,992	$ 54,983

Age Distribution
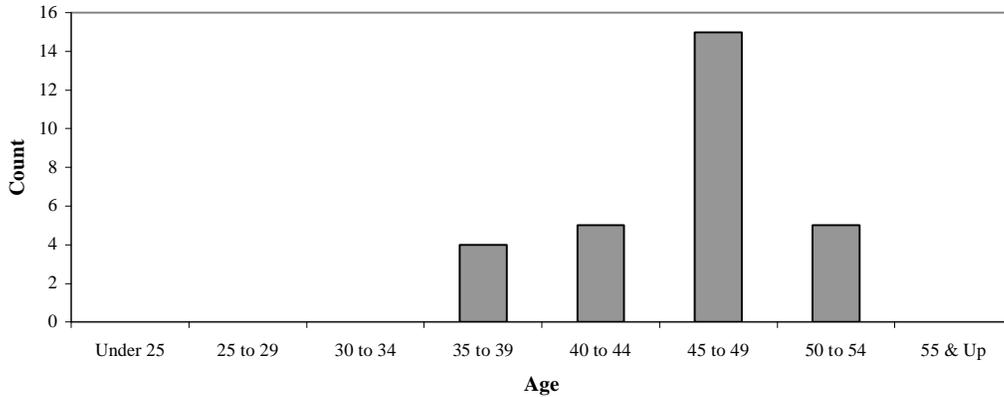
WICHITA POLICE AND FIRE RETIREMENT SYSTEM
SUMMARY OF RETIRED MEMBERS
as of December 31, 2005

	Number			Monthly Benefit		
Age	Fire	Police	Total	Fire	Police	Total
Under 50	21	29	50	$ 50,047	$ 76,286	$ 126,334
50 to 54	24	51	75	49,942	114,426	164,368
55 to 59	86	63	149	203,297	142,845	346,142
60 to 64	50	58	108	97,127	107,562	204,688
65 to 69	44	44	88	80,957	82,920	163,876
70 to 74	56	39	95	95,127	62,471	157,598
75 to 79	35	29	64	49,984	37,986	87,971
80 to 84	13	17	30	15,663	20,146	35,809
85 to 89	8	10	18	7,260	11,398	18,658
90 to 94	0	3	3	-	3,064	3,064
95 & Up	0	0	0	-	-	-
Total	337	343	680	$ 649,403	$ 659,104	$ 1,308,506

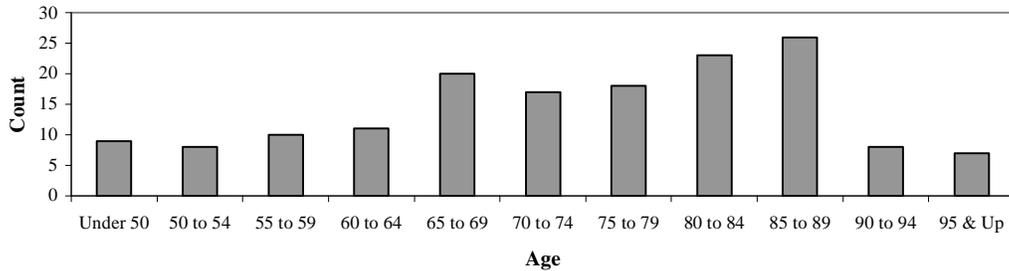**Age Distribution**
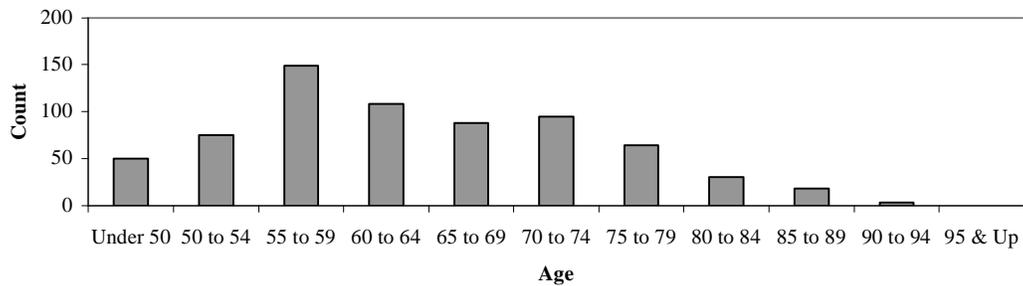
Average Benefit

APPENDIX A

WICHITA POLICE AND FIRE RETIREMENT SYSTEM
SUMMARY OF BENEFICIARIES
as of December 31, 2005

Age	Number			Monthly Benefit		
	Fire	Police	Total	Fire	Police	Total
Under 50	5	4	9	$ 11,045	$ 5,351	$ 16,396
50 to 54	4	4	8	4,015	7,541	11,556
55 to 59	5	5	10	6,928	6,553	13,481
60 to 64	4	7	11	5,052	11,672	16,724
65 to 69	10	10	20	11,599	13,085	24,684
70 to 74	6	11	17	8,048	10,391	18,440
75 to 79	12	6	18	12,422	7,902	20,324
80 to 84	18	5	23	17,677	4,923	22,599
85 to 89	19	7	26	15,790	6,099	21,889
90 to 94	2	6	8	1,482	4,526	6,008
95 & Up	5	2	7	3,644	1,537	5,181
Total	90	67	157	$ 97,702	$ 79,579	$ 177,281

Age Distribution

Average Benefit

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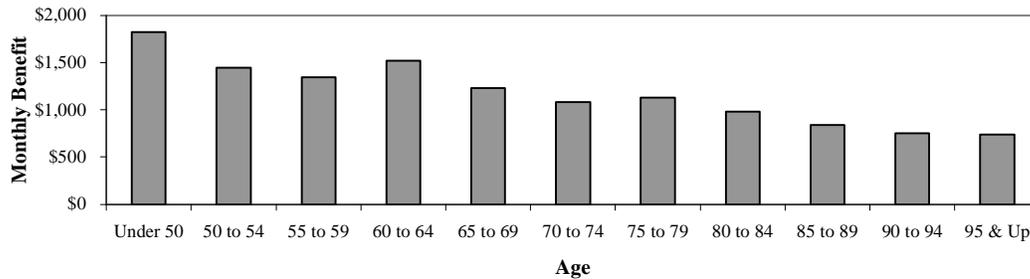
SUMMARY OF BENEFIT PROVISIONS
(DECEMBER 31, 2005)

Plan A is applicable to members who enter the System between January 1, 1965 and December 31, 1978 and members who entered prior to January 1, 1965 and elected Plan A coverage.

Plan B is applicable to members who entered the System prior to January 1, 1965 and elected Plan B coverage.

Plan C is applicable to members entering the System after December 31, 1978.

Service Retirement

Eligibility – Plan A and Plan B: 20 years of service, without regard to age.

Eligibility – Plan C: 30 years of service, without regard to age; or, 20 years of service and attainment of age 50 years or older.

Amount of Pension – all plans: 2.5% of final average salary times years of service to a maximum of 75% of final average salary. 2.5% (rather than 2.0%) applies to credit for unused sick leave hours effective in 2000.

Final Average Salary – all plans: average for the 3 consecutive years of service which produce the highest average and which are within the last 10 years of service.

Vesting (Deferred Retirement)

Eligibility – all plans: 10 years of service (does not include survivor benefits if service is less than 20 years).

Amount of Pension – all plans: 2.5% of final average salary times years of service with payment deferred until age 55 (age 50 for Plan C members with 20 or more years of service). Vested deferred pensions for Plan C are adjusted during the deferral period based on changes in National Average Earnings, up to 5.5% annual adjustments (effective for post-1999 terminations).

Service Connected Disability

Eligibility – all plans: permanent inability to perform the duties of position: no service retirement.

Amount of Pension – all plans: 75% of final salary rate if accident, 50% if disease.

Miscellaneous Conditions – all plans: reduced by any salary or other payments by City; pension plus earnings from gainful employment cannot exceed current salary for rank held at time of disability. Pension recomputed at age 55 using service retirement formula, updated final average salary and service credit for period of disability.

Non-Service Disability

Eligibility – all plans: permanent inability to perform duties of position; requires 7 years of service if under age 55 years.

Amount of Pension – all plans: 30% of final average salary plus 1% of final average salary times service over 7 years; maximum is 50% of final average salary.

Miscellaneous Conditions – all plans: pension plus earnings from gainful employment cannot exceed current salary for rank held at time of disability.

Service-Connected Death

Eligibility – all plans: death resulting from performance of duty as a Fireman or Policeman; no service requirement.

Amount of Pension – all plans: surviving spouse – 50% of final salary plus 10% of final salary for each child under age 18 years to a maximum of 75% of final salary; terminates upon remarriage prior to age 40 years for those retiring prior to January 1, 2000.

Children (no surviving spouse's pension payable) – 20% of final salary on account of first child plus 15% of final salary on account of each additional child to a maximum of 60% of final salary; terminates upon reaching age 18.

Non-Service Death

Eligibility – Plan A and Plan C: death after 3 years of service.

Eligibility – Plan B: death after 20 years of service.

Amount of Pension – Plan A and Plan C: surviving spouse – 35% of final average salary plus 1% of final average salary times service over 3 years to a maximum of 50% of final average salary, payable immediately; terminates upon remarriage prior to age 40 years for those retiring prior to January 1, 2000.

Children – 10% of final average salary on account of each child under age 18 years to a maximum of 66 2/3% of final average salary.

Amount of Pension – Plan B: 50% of final salary.

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Death After Retirement

Eligibility –   all plans: surviving spouse – must have been married to retired employee for one year or more at time of death, if retired after January 1, 2000. Member must have retired with at least 20 years of service.

Amount of Pension – Plan A and Plan C: surviving spouse – 50% of final average salary; payable immediately; terminates upon remarriage prior to age 40 years for those retiring prior to January 1, 2000.

Children – 10% of final average salary on account of each child under age 18 years to a maximum of 66 2/3% of final average salary.

Amount of Pension – Plan B: 50% of final salary to surviving spouse or children under age 18; surviving spouse's pension terminates upon remarriage prior to age 40 years for those retiring prior to January 1, 2000.

Non-Vested Termination

Eligibility – all plans: termination of employment and no pension is or will become payable.

Amount of Benefit – all plans: refund of member's contributions made after December 31, 1964 plus ½ of contributions made prior to January 1, 1965. Member contributions include 5% annual interest from December 31, 1999.

Funeral Benefit

Eligibility – Plan A and Plan C: death of member who retired after November 30, 1973.

Amount of Benefit – Plan A and Plan C: $750.

Eligibility – Plan B: death of retired member.

Amount of Benefit – Plan B: $100 if member retired prior to November 21, 1973; $750 if member retired after November 20, 1973.

Post-Retirement Adjustments of Pensions

Eligibility – all Plans: Completion of 36 months of retirement.

Amount of Adjustment – all Plans: 2% of original pension per year.

Back DROP (Deferred Retirement Option Plan)

Eligibility: Member must be eligible to retire under normal age and/or service requirements at the time they elect the Back DROP.

Amount: Under the Back DROP, the member may elect a benefit based on a retirement date up to 60 months prior to the current date. The monthly benefit is computed based on service, final average salary and benefit formula at the selected prior date. In addition to this monthly benefit, the DROP account available to the retiring member is the computed benefit multiplied by the number of months of Back DROP plus 5% annual compounded interest. Members are eligible January 1, 2001 for one-year Back DROP; January 1, 2002 for three-year Back DROP; January 1, 2003 for five-year Back DROP.

Contributions

Members – Plan A: 8% of salary.

Members – Plan B: 6% of salary.

Members – Plan C: 7% of salary.

These member contribution rates include the 1% decrease effective in 1998 in recognition of the full funding of actuarial liabilities.

City: Actuarially determined amounts sufficient to satisfy K.S.A. 1977 Suppl. 12-5002.

APPENDIX C

ACTUARIAL COST METHOD AND ASSUMPTIONS

Actuarial Cost Method

The actuarial cost method is a procedure for allocating the actuarial present value of pension benefits and expenses to time periods. The method used for the valuation is known as the individual entry-age actuarial cost method, and has the following characteristics.

(i)   The annual normal costs for each individual active member are sufficient to accumulate the value of the member's pension at time of retirement

(ii)   Each annual normal cost is a constant percentage of the member's year-by-year projected covered compensation.

(iii)   Normal costs for Plans A and B (closed plans) were based on Plan C (open plan) assumptions and benefit conditions.

The entry-age actuarial cost method allocates the actuarial present value of each member's projected benefits on a level basis over the member's pensionable compensation between the entry-age of the member and the assumed exit ages. By applying the entry-age cost method in the fashion described in (iii), the ultimate normal cost will remain level as a percent of active member payroll (if actuarial assumptions are realized) as Plan A and Plan B members leave active status and are replaced by members entering Plan C.

The portion of the actual present value allocated to the valuation year is called the normal cost. The portion of the actuarial present value not provided for by the actuarial present value of future normal costs is called actuarial liability. Deducting actuarial assets from the actuarial liability determines the unfunded actuarial liability.

Actuarial Assumptions

Retirement System contribution requirements and actuarial present values are calculated by applying experience assumptions to the benefit provisions and membership information of the Retirement System, using the actuarial cost method.

The principal areas of risk which require experience assumptions about future activities of the Retirement System are:

(i)   long-term rate of investment to be generated by the assets of the System

(ii)   patterns of pay increases to members

(iii)   rates of mortality among members, retirants and beneficiaries

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(iv)   rates of withdrawal of active members

(v)   rates of disability among active members

(vi)   the age patterns of actual retirement.

In making a valuation, the monetary effect of each assumption is calculated for as long as a present covered person survives - - a period of time which can be as long as a century.

Actual experience of the Retirement System will not coincide exactly with assumed experience. Each valuation provides a complete recalculation of assumed future experience and takes into account all past differences between assumed and actual experiences. The result is a continual series of adjustments (usually small) to the computed contribution rate.

From time-to-time one or more of the assumptions are modified to reflect experience trends (but not random or temporary year-to-year fluctuations). A complete review of the experience assumptions was completed in 2004 and resulted in the use of updated assumptions for subsequent actuarial valuations.

Actuarial Assumptions

The investment return rate (net of administrative expenses) used for actuarial valuation calculations was 7.75 percent a year, compounded annually. This rate consists of 4.00% in recognition of long term price inflation and a 3.75 percent a year real rate of return over price inflation. This assumption, used to equate the value of payments due at different points in time, was adopted by the Board and was first used for the December 31, 1999 valuation, although the allocation between inflation and real return was modified in 2004.

Salary increase rates used to project current pays to those upon which a benefit will be based are represented by the following table and were first used for the December 31, 2004 valuation.

Years of Service	Annual Rate of Salary Increase for Sample Ages			
	Inflation	Productivity	Merit & Longevity	Total
1	4.00%	0.50%	2.5%	7.0%
5	4.00%	0.50%	2.5%	7.0%
10	4.00%	0.50%	2.5%	7.0%
15	4.00%	0.50%	2.5%	7.0%
20	4.00%	0.50%	0.0%	4.5%
25	4.00%	0.50%	0.0%	4.5%
30	4.00%	0.50%	0.0%	4.5%

The salary increase assumptions will produce 4.50 percent annual increases in active member payroll (the inflation rate plus the productivity rate) given a constant active member group size. This is the same payroll growth assumptions used to amortize unfunded actuarial liability.

The real rate of return over assumed wage growth is 3.25% per year.

	Year Ended					
	12-31-05	12-31-04	12-31-03	12-31-02	12-31-01	5 Year Average
Average pay	2.3%	5.6%	0.9%	5.2%	8.6%	4.5%
Total payroll	1.0%	9.9%	0.4%	8.0%	9.5%	5.8%

Mortality Rates: The mortality assumption is used to measure the probabilities of members dying before retirement and the probabilities of each pension payment being made after retirement.

Healthy Retirees and Beneficiaries: RP-2000 Healthy Annuitant Table for Males and Females.
Disabled Retirees: RP-2000 Disabled Tables for males and females.
Active Members: RP-2000 Employee Table for males and females.

Sample Ages[1]	Present Value of $1 Monthly for Life		Future Life Expectancy (Years)	
	Men	Women	Men	Women
50	$138.63	$141.98	37.3	34.6
55	132.05	135.41	27.6	29.7
60	122.80	127.04	23.0	25.1
65	111.13	116.91	18.5	20.7
70	97.31	104.80	14.5	16.7
75	81.63	90.90	10.9	13.0
80	65.36	75.76	7.9	9.8
85	49.97	60.2	5.6	7.1

(1) Ages in 2000

This table was first used for the December 31, 2004 valuation.

The proportion of active members assumed to be married was 80%. In each case the male was assumed to be 3 years older than the female.

The rates of retirement used to measure the probability of eligible members retiring were as follows:

Percent Retiring within Year

Plans A & B			Plan C		
Service of Member	**Police**	**Fire**	**Age of Member**	**Police**	**Fire**
20	28%	20%	50	35%	20%
21	28	15	51	25	15
22	26	10	52	20	10
23	15	10	53	15	10
24	12	10	54	15	10
25	15	15	55	15	10
26	15	10	56	15	10
27	15	10	57	15	15
28	15	10	58	25	25
29	15	30	59	30	30
30	100	10	60	100	100
31	100	100	Over 60	100	100

The current rates were first used for the December 31, 1999 valuation.

Rates of separation from active membership were as follows: (rates do not apply to members eligible to retire and do not include separation on account of death or disability).

Sample Ages	**Years of Service**	**Percent Separating Within Year**	
		Police	**Fire**
ALL	0	10.0%	8.0%
	1	8.0	6.0
	2	6.0	4.5
	3	4.0	3.0
	4	3.0	2.0
25	Over 4	3.0	1.0
30		2.4	1.0
35		1.7	1.0
40		1.2	0.9
45		1.0	0.8
50		0.9	0.7
55		0.8	0.6

These rates were first used for the December 31, 1999 valuation.

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Forfeiture of Vested Benefits. The assumption is that a percentage of the actuarial present value of vested termination benefits will be forfeited by a withdrawal of accumulated contributions. This table was first used for the December 31, 2004 valuation.

Years of Service	% Forfeiting
10 - 14	100
15	0

Rates of disability were as follows:

Sample Ages	Percent Becoming Disabled Within Year	
	Police	Fire
20	0.10%	0.09%
25	0.16	0.14
30	0.33	0.30
35	0.55	0.49
40	0.77	0.68
45	0.98	0.87
50	1.20	1.06
55	1.42	1.14

These rates were first used for the December 31, 1999 valuation.

Rates of recovery from disability were assumed to be zero.

Administrative expenses were assumed to be paid from investment earnings.

Active member group size was assumed to remain constant.

Vested Deferred Pensions for Plan C were assumed to increase during the deferral period at 4.5% per year. This assumption was changed with the December 31, 2004 valuation.

Miscellaneous and Technical Assumptions

Marriage Assumption:	80% of participants are assumed to be married for purposes of death benefits.
Service Related Death and Disability:	All active member deaths and 75% of active member disablements are assumed to be service related.
Pay Increase Timing:	Assumed to occur mid-year.
Decrement Timing:	Decrements of all types are assumed to occur mid-year.
Eligibility Testing:	Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
Benefit Service:	Service, calculated to one-half year, is used to determine the amount of benefit payable.
Other:	Disability and turnover decrements do not operate during retirement eligibility.
Miscellaneous Loading Factors:	The calculated normal retirement benefits were increased by 4% to account for the inclusion of unused sick leave in the calculation of Average Compensation. This assumption was changed with the December 31, 2004 valuation.

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APPENDIX D

GLOSSARY OF TERMS

Actuarial Liability
The difference between the actuarial present value of system benefits and the actuarial value of future normal costs. Also referred to as "accrued liability" or "actuarial liability."

Actuarial Assumptions
Estimates of future experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and salary increases. Decrement assumptions (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term average rate of inflation.

Accrued Service
Service credited under the system which was rendered before the date of the actuarial valuation.

Actuarial Equivalent
A single amount or series of amounts of equal actuarial value to another single amount or series of amounts, computed on the basis of appropriate assumptions.

Actuarial Cost Method
A mathematical budgeting procedure for allocating the dollar amount of the actuarial present value of retirement system benefit between future normal cost and actuarial accrued liability. Sometimes referred to as the "actuarial funding method."

Experience Gain (Loss)
The difference between actual experience and actuarial assumptions anticipated experience during the period between two actuarial valuation dates.

Actuarial Present Value
The amount of funds currently required to provide a payment or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest and by probabilities of payment.

Amortization
Paying off an interest-discounted amount with periodic payments of interest and principal, as opposed to paying off with lump sum payment.

Normal Cost
The actuarial present value of retirement system benefits allocated to the current year by the actuarial cost method.

Unfunded Actuarial Liability
The difference between actuarial liability and the valuation assets.

Most retirement systems have unfunded actuarial accrued liability. They arise each time new benefits are added and each time an actuarial loss is realized.

The existence of unfunded actuarial accrued liability is not in itself bad, any more than a mortgage on a house is bad. Unfunded actuarial accrued liability does not represent a debt that is payable today. What is important is the ability to amortize the unfunded actuarial accrued liability and the trend in its amount (after due allowance for devaluation of the dollar).

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