

ARKANSAS JUDICIAL RETIREMENT SYSTEM
ANNUAL ACTUARIAL VALUATION AND
EXPERIENCE GAIN/(LOSS) ANALYSIS
YEAR ENDING JUNE 30, 2015

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November 3, 2015

The Board of Trustees
Arkansas Judicial Retirement System
Little Rock, Arkansas

Ladies and Gentlemen:

The results of the ***33rd Annual Actuarial Valuation of the Arkansas Judicial Retirement System as of June 30, 2015, and the Gain/(Loss) Analysis of Financial Experience from July 1, 2014 to June 30, 2015*** are presented in this report. The purpose of the valuation and gain/loss analysis is to measure funding progress in relation to the actuarial cost method and to determine the employer contribution rate. The results of the valuation may not be applicable for other purposes. A separate report will be issued to provide actuarial information for GASB Statement No. 67 and Statement No. 68.

This report should not be relied on for any purpose other than those described above. It was prepared at the request of the Board and is intended for use by the Retirement System and those designated or approved by the Board. This report may be provided to parties other than the System only in its entirety and only with the permission of the Board.

The individuals signing this report are independent of the plan sponsor.

The valuation was based upon Retirement System provisions in effect on the valuation date (summarized in Section B) along with census data and financial information. Data was tested for year-to-year consistency, but was not otherwise audited by the actuary. We are not responsible for the accuracy and completeness of the information provided by the administrative staff.

The findings in this report are based on data and other information through June 30, 2015. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as: plan experience differing from that anticipated by the economic and demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of the actuary's assignment, the actuary did not perform an analysis of the potential range of such future measurements.

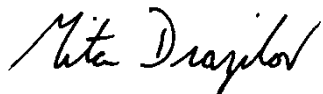
The actuarial assumptions used in the actuarial valuation are summarized in Section D. The assumptions are established by the Retirement Board after consulting with the actuary. The actuarial assumptions used for the valuation produce results which, individually and in the aggregate, are reasonable.

The cooperation of the administrative staff in furnishing the materials required for this valuation is hereby acknowledged with appreciation.

This report has been prepared by individuals who have substantial experience valuing public employee retirement systems. To the best of our knowledge, this report is complete and accurate and was made in accordance with standards of practice promulgated by the Actuarial Standards Board.

Mita Drazilov and Heidi Barry are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

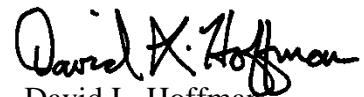
Respectfully submitted,



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SECTION A
VALUATION RESULTS

**COMPUTED ACTUARIAL ACCRUED LIABILITIES
AS OF JUNE 30, 2015**

Actuarial Present Value of	(1) Total Present Value	(2) Portion Covered by Future Normal Cost Contributions	(3) Actuarial Accrued Liabilities (1) - (2)
Benefits to be paid to current retirees, beneficiaries, and future beneficiaries of current retirees	\$ 143,898,474	\$ 0	\$ 143,898,474
Age and service allowances based on total service likely to be rendered by present active members	149,567,354	41,248,959	108,318,395
Separation benefits (refunds of contributions and deferred allowances) likely to be paid to present active and inactive members	2,857,281	1,391,430	1,465,851
Disability benefits likely to be paid to present active members	1,139,622	1,426,572	(286,950)
Death-in-service benefits likely to be paid on behalf of present active members	2,187,946	869,731	1,318,215
Total	\$299,650,677	\$44,936,692	\$ 254,713,985
Applicable assets (Funding Value)	215,447,551	0	215,447,551
Liabilities to be covered by future contributions	\$ 84,203,126	\$44,936,692	\$ 39,266,434

**EMPLOYER CONTRIBUTION RATES COMPUTED JUNE 30, 2015
FOR FISCAL YEAR ENDING JUNE 30, 2017
EXPRESSED AS PERCENTS OF ACTIVE MEMBER PAYROLL**

Contributions for	Contributions Expressed as Percents of Active Payroll
Normal Cost	
Age and service annuities	30.63 %
Separation benefits	0.96 %
Disability annuities	1.08 %
Death-in-service annuities	0.67 %
Total	33.34 %
Member Contributions (average)	4.64 %
Employer Normal Cost	28.70 %
Unfunded Actuarial Accrued Liabilities (28-year amortization)	9.29 %
TOTAL COMPUTED EMPLOYER CONTRIBUTION RATE	37.99 %

**COMPUTED EMPLOYER CONTRIBUTION RATES
HISTORICAL SCHEDULE**

Valuation Date June 30	Active Members in Valuation			UAAL Financing Period	Computed Employer Contribution Rate
	Number	Average Pay	Averages in Years Age Service [@]		
1992	112	\$ 70,679	52.4 yrs. 9.8 yrs.	21 yrs.	28.29%
1993	117	85,286	52.5 9.6	20	29.56%
1994	117	89,783	53.0 10.0	19	29.39%
1995 (a)	119	92,287	53.4 10.0	18	37.37%
1996 (a) #	121	96,810	53.8 10.4	17	29.62%
1997	125	99,376	53.5 10.1	16	24.22%
1998	125	104,673	54.5 11.2	*	22.47%
1999 (a)	129	107,679	54.1 10.4	*	21.92%
2000	130	110,545	54.4 10.7	*	21.87%
2001 (a)	131	113,502	55.0 11.1	*	26.00%
2002 #	133	116,441	55.9 11.9	30	25.77%
2003	134	118,915	54.9 10.0	30	29.34%
2004	134	121,505	55.6 10.5	30	29.46%
2005	134	124,161	55.9 10.9	30	30.44%
2006	134	126,933	56.7 11.6	30	29.36%
2007 #	134	129,358	56.9 11.8	*	24.20%
2008	137	131,929	57.8 12.6	*	24.59%
2009 (a)	138	136,775	56.2 15.0	30	27.43%
2010	136	136,984	57.1 15.4	30	29.08%
2011	141	137,149	57.6 15.3	30	29.93%
2012 #	140	137,155	58.5 15.8	30	31.46%
2013	140	139,898	58.7 15.9	30	29.12%
2014 #	140	141,297	59.7 16.8	29	25.09%
2015	139	160,489	58.6 16.4	28	26.86%
2015 #	139	160,489	58.6 16.4	28	37.99%

(a) After changes in benefit provisions.

Revised actuarial assumptions and/or methods.

* Retirement System was fully funded.

@ Includes reciprocal service for Tier One members on and after June 30, 2006 and Tier Two members on and after June 30, 2009.

Employer contributions are the total of all types of revenue to the System except member contributions by payroll deduction and investment return. Employer contributions include court fees and Act 922 transfers.

**ACTIVE MEMBERS AND RETIRED LIVES
HISTORICAL COMPARATIVE SCHEDULE**

Valuation Date June 30	Active Members				Retired Lives			
	No.	Valuation Payroll			No.	Active per Retired	Annual Benefits	
		\$ Millions	Average	% Incr.			\$ in Millions	as a % of Pay
1992	112	\$ 7.9	\$ 70,679	4.0%				
1993	117	10.0	85,286	20.7%				
1994	117	10.5	89,783	5.3%				
1995	119	11.0	92,287	2.8%				
1996	121	11.7	96,810	4.9%				
1997	125	12.4	99,376	2.7%				
1998	125	13.1	104,673	5.3%				
1999	129	13.9	107,679	2.9%	79	1.6	\$3.6	25.6%
2000	130	14.4	110,545	2.7%	80	1.6	3.7	26.1%
2001	131	14.9	113,502	2.7%	82	1.6	5.0	33.8%
2002	133	15.5	116,441	2.6%	81	1.6	5.0	32.3%
2003	134	15.9	118,915	2.1%	98	1.4	6.4	40.5%
2004	134	16.3	121,505	2.2%	100	1.3	6.6	40.6%
2005	134	16.6	124,161	2.2%	105	1.3	7.1	42.9%
2006	134	17.0	126,933	2.2%	101	1.3	7.1	41.5%
2007	134	17.3	129,358	1.9%	103	1.3	7.3	42.4%
2008	137	18.1	131,929	2.0%	105	1.3	7.5	41.5%
2009	138	18.9	136,775	3.7%	123	1.1	9.2	48.8%
2010	136	18.6	136,984	0.2%	121	1.1	9.2	49.1%
2011	141	19.3	137,149	0.1%	120	1.2	9.1	46.9%
2012	140	19.2	137,155	0.0%	123	1.1	9.3	48.6%
2013	140	19.6	139,898	2.0%	125	1.1	10.0	50.8%
2014	140	19.8	141,297	1.0%	124	1.1	10.1	51.2%
2015	139	22.3	160,489	13.6%	137	1.0	11.8	53.0%

**PAYROLL AND ASSET
HISTORICAL COMPARATIVE STATEMENT**

Valuation Date June 30	Valuation Payroll	Assets	Ratio of Assets/Payroll
(\$ in Millions)			
1985	\$ 4.7	\$ 4.5	1.0
1990	7.1	21.4	3.0
1995	11.0	41.1	3.7
1996	11.7	51.5	4.4
1997	12.4	63.3	5.1
1998	13.1	77.2	5.9
1999	13.9	91.8	6.6
2000	14.4	107.1	7.4
2001	14.9	119.2	8.0
2002	15.5	124.2	8.0
2003	15.9	126.5	7.9
2004	16.3	129.1	7.9
2005	16.6	135.1	8.1
2006	17.0	145.1	8.5
2007	17.3	159.6	9.2
2008	18.1	169.1	9.3
2009	18.9	167.4	8.9
2010	18.6	165.2	8.9
2011	19.3	165.4	8.6
2012	19.2	167.8	8.7
2013	19.6	182.6	9.3
2014	19.8	201.8	10.2
2015	22.3	215.4	9.7

As AJRS has matured, the asset base relative to covered payroll has increased dramatically. This is a normal and planned occurrence in a soundly financed plan. However, as the ratio grows, market gains and losses have a progressively larger effect on contribution rates, making the objective of contribution rate stability increasingly more difficult to achieve.

COMMENTS

General Financial Objective. Section 24-2-701 of the Arkansas Code provides as follows (emphasis added):

“(a) The general financial objective of each Arkansas public employee retirement plan shall be to ***establish and receive contributions which, expressed as percents of active member payroll, will remain approximately level from generation to generation of Arkansas citizens.*** More specifically, contributions received each year shall be sufficient both to (i) fully cover the costs of benefit commitments being made to members for their service being rendered in such year and (ii) make a level payment which if paid annually over a reasonable period of future years will fully cover the unfunded costs of benefit commitments for service previously rendered.....”

Judicial Retirement System Status. Financing the Retirement System under a level contribution pattern means:

- The normal costs of judicial service will be paid by the generation of taxpayers who receive the value of the judicial service, and not passed on to a future generation;
- The ultimate contributions required will be substantially less than future benefit payouts, because investment return will pay the largest portion of benefits (see Financing Diagram on page E-3); and
- The benefit promises the Retirement System makes to individual judges will be more secure, because Retirement System assets will support the benefits, rather than grants from future legislatures.

Experience of the Retirement System was unfavorable for the year ended June 30, 2015 due to higher than expected salary increases and higher COLA increases than assumed for Tier I members partially offset by higher than assumed investment returns (see pages B-5 and C-7). AJRS is 85% funded based on the funding (smoothed) value of assets. AJRS is 88% funded based on the market value of assets. There is a \$7.7 million cumulative investment gain to be recognized over the next three years. If actual experience matches assumed experience during this coming period, the employer contribution would decrease by approximately 1.8% of payroll from the current level.

Based upon the results of the June 30, 2015 actuarial valuation, ***the Judicial Retirement System is satisfying the general financial objective*** of level percent-of-payroll financing.

RECOMMENDATIONS

Reserve Transfers. Each year reserve transfers are recommended so that there will be a balance between assets and actuarial accrued liabilities in the Retirement Reserve Account and the Deferred Annuity Account.

- The Retirement Reserve Account is responsible for future annuity payments to present retired lives.
- The Deferred Annuity Account is responsible for future annuity payments to present inactive members.

This year's recommended transfer amounts are as follows:

Employer Accum. Account Before Transfers	Transfers as of July 1, 2015 (from) to:		Employer Accum. Account After Transfers
	Deferred Annuity Account	Retirement Reserve Account	
\$96,866,600	\$363,441	\$31,749,467	\$64,753,692

For the purposes of this valuation it was assumed that these transfers would be made.

GASB Statement No. 67 and No. 68. In light of the new accounting statements that are effective for AJRS and revised Actuarial Standards of Practice, the Board adopted the following changes to the actuarial valuation process for current and future valuations:

- 1) A closed amortization period was adopted. This will enable the same discount rate (i.e., 6.25%) to be used for accounting purposes as for funding purposes. This resulted in a 28-year amortization period being used for the June 30, 2015 actuarial valuation.
- 2) Economic assumptions were revised for the June 30, 2015 valuation. A 6.25% investment return assumption and a 3.25% wage inflation assumption was used compared to a 7.25% investment return assumption and a 3.50% wage inflation assumption used in the prior valuation.

The changes in economic assumptions have a significant effect on the June 30, 2015 actuarial valuation results. (Please refer to pages A-3 and A-10).

OTHER OBSERVATIONS

General Implications of Contribution Allocation Procedure or Funding Policy on Future Expected Plan Contributions and Funded Status

Given the plan's contribution allocation procedure, if all actuarial assumptions are met (including the assumption of the plan earning 6.25% on the actuarial value of assets), it is expected that:

- 1) The unfunded actuarial accrued liabilities will be fully amortized after 28 years, and
- 2) The funded status of the plan will increase gradually towards a 100% funded ratio.

Limitations of Funded Status Measurements

Unless otherwise indicated, a funded status measurement presented in this report is based upon the actuarial accrued liability and the actuarial value of assets. Unless otherwise indicated, with regard to any funded status measurements presented in this report:

- 1) The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations.
- 2) The measurement is dependent upon the actuarial cost method which, in combination with the plan's amortization policy, affects the timing and amounts of future contributions. The amounts of future contributions will most certainly differ from those assumed in this report due to future actual experience differing from assumed experience based upon the actuarial assumptions. A funded status measurement in this report of 100% is not synonymous with no required future contributions. If the funded status were 100%, the plan would still require future normal cost contributions (i.e., contributions to cover the cost of the active membership accruing an additional year of service credit).
- 3) The measurement would produce a different result if the market value of assets were used instead of the actuarial value of assets, unless the market value of assets is used in the measurement.

SHORT CONDITION TEST

The AJRS funding objective is to meet long-term benefit promises through contributions that remain approximately level from year-to-year as a percent of member payroll. If the contributions to the System are level in concept and soundly executed, the System will *pay all promised benefits when due -- the ultimate test of financial soundness*. Testing for level contribution rates is the long-term test.

A short condition test is one means of checking a system's progress under its funding program. In a short condition test, the plan's present assets (cash and investments) are compared with:

- 1) Member accumulated contributions;
- 2) The liabilities for future benefits to present retired lives; and
- 3) The employer financed portion of liabilities for service already rendered by non-retired members.

In a system that has been following the discipline of level percent-of-payroll financing, active member contributions (liability 1) and the liabilities for future benefits to present retired lives (liability 2) will be fully covered by present assets. In addition, the liabilities for service already rendered by active members (liability 3) will be partially covered by the remainder of present assets. The larger the funded portion of liability 3, the stronger the condition of the System.

SHORT CONDITION TEST – COMPARATIVE STATEMENT

Valuation Date June 30	Entry Age Accrued Liability			Present Assets	Portion of Present Values Covered by Present Assets				Market Value Total
	(1)	(2)	(3)		(1)	(2)	(3)	Total	
	Active Members Contr.	Retirees and Benef.	Active Member (Employer Financed Portion)						
(\$ in Thousands)									
1994	\$ 3,720	\$25,161	\$25,263	\$ 37,310	100%	100%	33%	69%	
1995(a)	4,261	28,845	26,627	41,095	100%	100%	30%	69%	
1996(a)	4,828	32,063	26,561	51,478	100%	100%	55%	81%	
1997	5,418	33,295	26,944	63,284	100%	100%	91%	96%	
1998	6,067	33,218	31,989	77,175	100%	100%	118%	108%	
1999(a)	6,817	38,040	37,919	91,783	100%	100%	124%	111%	
2000(a)	7,740	39,255	36,217	107,059	100%	100%	166%	129%	
2001(a)	8,522	54,712	52,839	119,191	100%	100%	106%	103%	
2002(a)	9,316	54,216	61,202	124,212	100%	100%	99%	99%	
2003	10,147	74,060	53,718	126,520	100%	100%	79%	92%	
2004	10,948	74,227	56,600	129,065	100%	100%	78%	91%	
2005	10,254	79,560	60,766	135,062	100%	100%	74%	90%	
2006	11,078	79,739	65,692	145,050	100%	100%	83%	93%	
2007(a)	11,906	82,165	63,302	159,587	100%	100%	103%	101%	
2008	11,825	81,712	72,211	169,061	100%	100%	105%	102%	
2009(a)	12,689	103,249	64,227	167,433	100%	100%	80%	93%	73%
2010	11,474	102,200	69,238	165,244	100%	100%	74%	90%	78%
2011	11,822	102,379	72,434	165,377	100%	100%	71%	89%	92%
2012(a)	12,356	107,413	75,685	167,796	100%	100%	63%	86%	87%
2013	12,397	114,770	75,967	182,596	100%	100%	73%	90%	94%
2014(a)	13,310	113,468	81,228	201,792	100%	100%	92%	97%	105%
2015	12,665	131,922	85,837	215,448	100%	100%	83%	94%	97%
2015(a)	12,665	143,898	98,150	215,448	100%	100%	60%	85%	88%

(a) After changes in benefit provisions and/or actuarial assumptions and methods.

SECTION B
VALUATION DATA

SUMMARY OF PROVISIONS CONSIDERED (JULY 1, 2015)

Tier One

Tier Two

Description

Elected or appointed prior to the effective date of Act 399 of 1999 and who do not elect to participate in Tier Two.

Elected or appointed after the effective date of Act 399 of 1999 or elected to participate in Tier Two.

Regular Retirement

An active member may retire at age 65 with 10 or more years of credited service, or after 20 years of credited service regardless of age. Persons who become members after June 30, 1983 must also have at least 8 years of actual service as a justice of the Supreme Court, or as a judge of the Circuit or Chancery Courts or the Court of Appeals.

An active member or former member may retire at age 65 with 8 or more years of credited service, or after 20 years of credited service regardless of age.

Compulsory Retirement

Any judge or justice who attains 70 years of age during a term of office to which he has been elected may complete the term without forfeiting rights to retirement benefits. Any judge or justice who is not eligible to retire at age 70 may continue to serve as judge until completion of the term in which there has accrued sufficient credited service to retire. Otherwise, judges or justices must retire by their 70th birthday or lose their retirement benefits.

Any judge or justice who attains 70 years of age during a term of office to which he has been elected may complete the term without forfeiting rights to retirement benefits. Any judge or justice who is not eligible to retire at age 70 may continue to serve as judge until completion of the term in which there has accrued sufficient credited service to retire. Otherwise, judges or justices must retire by their 70th birthday or lose their retirement benefits.

Final Salary

The annual salary for the last judicial office held.

The annual salary for the last judicial office held.

Age & Service Annuity

60% of the judge's final salary, for life.

3.2% of the salary of the last judicial office held multiplied by the number of years of service not to exceed 80% of the salary of the last judicial office held.

Each year of additional service after twenty (20) years of judicial service, the benefit shall be increased by two and one-half percent (2.5%) with a maximum benefit payable of seventy-five percent (75%) of the judge's final salary.

SUMMARY OF PROVISIONS CONSIDERED CONTINUED

Tier One

Tier Two

Deferred Retirement

An inactive member who has 14 or more years of credited service and left judicial service before attaining age 65 will be entitled to an age and service annuity beginning at age 65. Persons who become members after June 30, 1983 must also have at least 8 years of actual service as a justice of the Supreme Court, or as a judge of the Circuit or Chancery Courts or the Court of Appeals.

An inactive member who has 8 or more years of credited service and left judicial service before attaining age 65 will be entitled to an age and service annuity beginning at age 65.

Disability Retirement

An active member with 3 or more consecutive years of credited service who becomes totally and permanently disabled may be retired and receive a disability annuity computed in the same manner as an age and service annuity. The 3 years of service is not required for persons who were members before July 1, 1983.

An active member with 3 or more consecutive years of credited service who becomes totally and permanently disabled may be retired and receive a disability annuity computed in the same manner as an age and service annuity, except that the benefit shall not be less than 25.6% of final salary.

Early Retirement

A member who became a member before July 1, 1983 and who has 18 but less than 20 years credited service may retire, regardless of age, and receive an immediate annuity. The amount is the full age and service amount reduced proportionately for service less than 20 years.

A member with 8 years of credited service may retire between ages 62 and 65 and receive an immediate annuity. The amount is the full age and service amount reduced 1/2 of 1% for each month retirement age is younger than age 65.

A member with 14 years of credited service may retire between ages 62 and 65 and receive an immediate annuity. The amount is the full age and service amount reduced 1/2 of 1% for each month that retirement age is younger than age 65. Persons who become members after June 30, 1983 must also have at least 8 years of actual service as a justice of the Supreme Court, or as a judge of the Circuit Court or Chancery Courts or the Court of Appeals.

SUMMARY OF PROVISIONS CONSIDERED CONCLUDED

Tier One

Tier Two

Survivor Benefits

Upon the death of a member with 3 or more years of service, before or after retirement, an annuity of 67% of the judge's benefit is payable to the following survivors (shared if there is more than one eligible survivor):

- A surviving spouse married to the judge more than 1 year at the time of death.
- A minor child of the judge.

The 3-year service requirement is not required of those who became members prior to July 1, 1983.

Upon the death of a member with 3 or more years of service, before or after retirement, an annuity of 67% of the judge's benefit, but not less than 17.152% of final salary, is payable to the following survivors (shared if there is more than one eligible survivor):

- A surviving spouse married to the judge more than 1 year at the time of death.
- A minor child of the judge.

The 3-year service requirement is not required of those who became members prior to July 1, 1983.

Increases After Retirement

For any person who was a member on or before June 30, 1983, the retirement benefits are increased or decreased from time to time as the salary for the particular judicial office is increased or decreased. For all judges or justices first elected after June 30, 1983, and who have received retirement benefits from the System for at least 12 full calendar months, the retirement benefits are increased each July 1st by 3%.

For all judges or justices who have received retirement benefits from the System for at least 12 full calendar months, the retirement benefits are increased each July 1st by 3%.

Member Contributions

Active members contribute 6% of their salaries. Members with 20 or more years of service and members age 65 or older with 10 or more years of service do not contribute to the Retirement System. At any time a member is accruing the additional 2.5% of final salary benefit, member contributions would be required. If a member leaves service before becoming eligible to retire, accumulated contributions may be refunded.

Active members contribute 5% of their salaries. Members with 25 or more years of service do not contribute to the Retirement System. If a member leaves service before becoming eligible to retire, accumulated contributions may be refunded.

SUMMARY OF REPORTED ASSETS
JUNE 30, 2015

Reserve Account Balances

Members Deposit Account	\$ 12,665,310
Members Deposit Account Interest Reserve	698
Employer Accumulation Account	96,866,600
Retirement Reserve Account	112,149,007
Partial Purchase Service Reserve	0
Deferred Annuity Account	<u>1,442,136</u>
 Total Applicable Assets (Market Value)	 <u><u>\$ 223,123,751</u></u>

Revenues & Expenditures

Total Assets Beginning of Year (Market Value)	\$217,430,540
 Revenues:	
Member Contributions	946,149
Employer Contributions	2,449,709
- Statutory	2,629,192
- Act 922	609,388
- Court fees	2,092
- Other	0
Service Purchase	0
Investment Income	<u>11,175,526</u>
Total Revenues	17,812,056
 Expenditures:	
Retirement Benefits Paid	10,762,871
Refunds of Member Contributions	14,320
Administrative Expenses	137,951
Investment Expenses	1,203,703
Other	<u>0</u>
Total Expenditures	12,118,845
 Total Assets End of Year (Market Value)	 <u><u>\$223,123,751</u></u>

DEVELOPMENT OF FUNDING VALUE OF ASSETS

Valuation Date June 30:	2013	2014	2015	2016	2017	2018
A. Funding Value Beginning of Year	\$167,796,207	\$182,596,403	\$201,792,271			
B. Market Value End of Year	190,710,161	217,430,540	223,123,751			
C. Market Value Beginning of Year	169,936,018	190,710,161	217,430,540			
D. Non-Investment Net Cash Flow	(2,876,471)	(2,942,205)	(4,140,661)			
E. Investment Return						
E1. Market Total: B-C-D	23,650,614	29,662,584	9,833,872			
E2. Assumed Rate	7.25%	7.25%	7.25%	6.25%	6.25%	6.25%
E3. Amount for Immediate Recognition	12,062,169	13,132,828	14,481,592			
E4. Amount for Phased-In Recognition	11,588,445	16,529,756	(4,647,720)			
F. Phased-In Recognition of Investment Return						
F1. Current Year: 0.25xE4	2,897,111	4,132,439	(1,161,930)			
F2. First Prior Year	(2,553,273)	2,897,111	4,132,439	\$ (1,161,930)		
F3. Second Prior Year	4,528,968	(2,553,273)	2,897,111	4,132,439	\$ (1,161,930)	
F4. Third Prior Year	741,692	4,528,968	(2,553,271)	2,897,112	4,132,439	\$ (1,161,930)
F5. Total Recognized Investment Gain	5,614,498	9,005,245	3,314,349	5,867,621	2,970,509	(1,161,930)
G. Funding Value End of Year						
G1. Preliminary Funding Value End of Year: A+D+E3+F5	182,596,403	201,792,271	215,447,551			
G2. Upper Corridor Limit: 125% x B	238,387,701	271,788,175	278,904,689			
G3. Lower Corridor Limit: 75% x B	143,032,621	163,072,905	167,342,813			
G4. Funding Value End of Year	182,596,403	201,792,271	215,447,551			
H. Difference Between Market & Funding Values	8,113,758	15,638,269	7,676,200			
I. Recognized Rate of Return	10.6%	12.2%	8.9%			
J. Market Value Rate of Return	14.0%	15.7%	4.6%			
K. Ratio of Funding Value to Market Value	95.7%	92.8%	96.6%			

The Funding Value of Assets recognizes assumed investment return (line E3) fully each year. Differences between actual and assumed investment return (line E4) are phased-in over a closed 4-year period. During periods when investment performance exceeds the assumed rate, Funding Value of Assets will tend to be less than Market Value. During periods when investment performance is less than the assumed rate, Funding Value of Assets will tend to be greater than Market Value. If assumed rates are exactly realized for 3 consecutive years, Funding Value will become equal to market value.

RETIREES AND BENEFICIARIES AS OF JUNE 30, 2015
TABULATED BY ATTAINED AGE

Attained Age	Retirees		Survivor Beneficiaries		Total	
	No.	Annual Allowances	No.	Annual Allowances	No.	Annual Allowances
52	1	\$ 35,935			1	\$ 35,935
57			3	\$ 188,406	3	188,406
60	1	108,320			1	108,320
62	1	86,484			1	86,484
63	3	208,098	1	47,219	4	255,317
64	2	215,072	2	119,565	4	334,637
65	4	336,774			4	336,774
66	4	341,643	1	64,320	5	405,963
67	6	548,165	1	89,487	7	637,652
68	3	257,741	1	72,360	4	330,101
69	5	501,132			5	501,132
70	5	480,966	3	222,675	8	703,641
71	4	298,081	1	64,923	5	363,004
72	9	755,981	1	65,734	10	821,715
73	4	418,445	3	200,623	7	619,068
74	5	510,005	2	133,263	7	643,268
75	2	113,430	1	88,388	3	201,818
76	5	440,085			5	440,085
77	4	405,074			4	405,074
78	6	580,158	1	62,980	7	643,138
79	3	282,740	1	66,549	4	349,289
80	6	636,035			6	636,035
81	3	295,809	2	128,640	5	424,449
83	4	390,299			4	390,299
84	2	191,818	1	64,320	3	256,138
85	2	188,747	1	71,272	3	260,019
86	2	204,716	1	64,320	3	269,036
87	1	96,000	2	128,640	3	224,640
88			2	131,253	2	131,253
89	2	238,544	1	64,320	3	302,864
90	1	96,000			1	96,000
91	1	142,544			1	142,544
92			1	64,320	1	64,320
95	1	96,900	1	64,320	2	161,220
98			1	64,320	1	64,320
TOTALS	102	\$ 9,501,741	35	\$ 2,332,217	137	\$ 11,833,958

RETIREES AND BENEFICIARIES AS OF JUNE 30, 2015
TABULATED BY ATTAINED AGE (CONCLUDED)

<u>Type of Annuity</u>	<u>Number</u>	<u>Annual Annuities</u>	<u>Annuity Liabilities</u>
Age & Service Retirees			
Life	10	\$ 834,815	\$ 8,057,253
Life Continuing to Survivor	90	8,542,186	110,096,145
Totals	100	9,377,001	118,153,398
Beneficiaries of Age & Service Retirees	33	2,206,257	22,499,014
Total Age & Service Retirees & Beneficiaries	133	11,583,258	140,652,412
Disability Retirees			
Life	1	84,302	605,930
Life Continuing to Survivor	1	40,438	550,189
Totals	2	124,740	1,156,119
Beneficiaries of Disability Retirees	0	0	0
Total Disability Retirees & Beneficiaries	2	124,740	1,156,119
Death-in-Service Beneficiaries	2	125,960	2,089,943
Total Retirees & Beneficiaries	137	\$ 11,833,958	\$ 143,898,474

AJRS Retirees

	<u>July 1, 2014 through June 30, 2015</u>		
	<u>Age & Service</u>	<u>Disability</u>	<u>All Retirees</u>
Number	14	NA	137
Average Age	69.5	NA	75.1
Average Service	0.0	NA	NA
Average Annual Benefit	\$85,542.21	NA	\$86,379.26

Included in the valuation were 4 inactive vested members. The newly reported retiree came from inactive vested status.

ACTIVE MEMBERS AS OF JUNE 30, 2015
BY ATTAINED AGE AND YEARS OF SERVICE
TIER ONE

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
50-54				1	1			2	\$ 320,000
55-59									
60									
61									
62				1		1		2	320,000
63						1		1	160,000
64						1	1	2	320,000
65				3		1	1	5	801,500
66						1		1	160,000
67					2	1		3	480,000
68						2	1	3	480,000
69					1			1	160,000
70					1	1	1	3	486,500
71					1			1	160,000
72				1				1	166,500
Totals				6	6	9	4	25	\$ 4,014,500

Group	No.	Averages		
		Age	Service	Annual Pay
Tier One	25	65.5	25.2	\$160,580

ACTIVE MEMBERS AS OF JUNE 30, 2015
BY ATTAINED AGE AND YEARS OF SERVICE
TIER TWO

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
35-39	2	1						3	\$ 481,500
40-44	2	2	4	1				9	1,444,000
45-49	2	4	2	3	2			13	2,083,000
50-54		4	4	1	4	2		15	2,408,000
55-59	5	2	4	4	2	4	1	22	3,524,500
60			3	1				4	640,000
61			3	2	3	1		9	1,440,000
62	2					1		3	481,500
63	2	1		1		1		5	800,000
64	1		2		2	1		6	961,500
65	1	1				2		4	640,000
66		1	3				1	5	800,000
67		1	1				1	3	480,000
68		1	2	2			1	6	961,500
69			2					2	320,000
71		2	1				1	4	661,500
72	1							1	166,500
Totals	18	20	31	15	13	12	5	114	\$ 18,293,500

Group	No.	Averages		
		Age	Service	Annual Pay
Tier Two	114	57.1	14.4	\$160,469

SECTION C
GAIN/(LOSS) RESULTS

COMMENTS

Purpose of Gain/(Loss) Analysis. Regular actuarial valuations provide information about the composite change in unfunded actuarial accrued liabilities -- whether or not they are increasing or decreasing and by how much.

But valuations do not show the portion of the change attributable to each risk area within the Retirement System financial mechanism: the rate of investment return which plan assets earn; the rates of withdrawal of active members who leave covered employment; the rates of mortality; the rates of disability; the rates of pay increases; and the ages at actual retirement. In an actuarial valuation, assumptions must be made as to what these rates will be, for the next year and for decades in the future.

The objective of a gain and (loss) analysis is to determine the portion of the change in actuarial condition (unfunded actuarial accrued liabilities) attributable to each risk area.

The fact that actual experience differs from assumed experience is to be expected -- ***the future cannot be predicted with precision.*** The economic risk areas (particularly investment return) are volatile.

Changes in the assumed experience for a risk area should be made when the differences between assumed and actual experience have been observed to be sizable and persistent. A gain and (loss) analysis covering a relatively short period may or may not be indicative of ***long-term trends, which are the basis of actuarial assumptions.***

The Arkansas Judicial Retirement System had an experience loss during the 2014-2015 observation year. Details are reported on the following pages.

**CHANGES IN UNFUNDED ACTUARIAL ACCRUED LIABILITIES
DERIVATION OF EXPERIENCE GAIN (LOSS)
YEAR ENDED JUNE 30, 2015**

Actual experience will not (except by coincidence) coincide exactly with assumed experience. Gains and losses often cancel each other over a period of years, but sizable year-to-year fluctuations are common. Detail on the derivation of the experience gain (loss) is shown below.

	<u>2015</u>	<u>2014</u>
1) UAAL* at start of year	\$ 6,213,273	\$ 20,537,315
2) Normal cost from last valuation	4,613,337	4,570,120
3) Employer contributions	5,690,381	6,117,327
4) Interest accrual: (1) * .0725 + [(2)-(3)]*.03625	411,419	1,432,869
5) Expected UAAL before changes: (1)+(2)-(3)+(4)	5,547,648	20,422,977
6) Change in benefits/assumptions/methods	24,290,229	687,778
7) Expected UAAL after changes: (5) + (6)	29,837,877	21,110,755
8) Actual UAAL at end of year	39,266,434	6,213,273
9) Gain(loss): (7) - (8)	\$(9,428,557)	14,897,482
10) Gain(loss) as percent of actuarial accrued liabilities at start of year: \$208,005,544	(4.5)%	7.3%
Last year's accrued liability	\$208,005,544	\$203,133,718

* *Unfunded actuarial accrued liability.*

**GAIN/(LOSS) BY RISK AREA
DURING THE PERIOD JULY 1, 2014 TO JUNE 30, 2015**

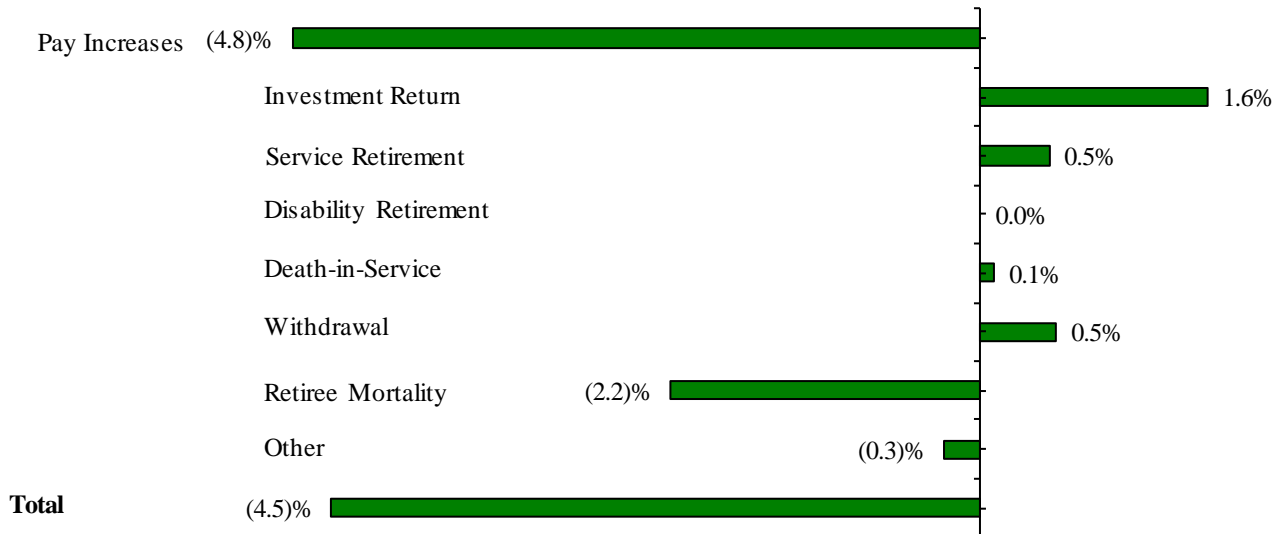
Type of Risk Area	Gain (Loss) During Year	
	\$ in Millions	Percent of Liabilities
ECONOMIC RISK AREAS		
Pay Increases. If there are smaller pay increases than assumed, there is a gain. If greater increases, a (loss).	\$(10.0)	(4.8)%
Investment Return. If there is greater investment return than assumed, there is a gain. If less return, a (loss).	3.3	1.6 %
NON-ECONOMIC RISK AREAS		
Age & Service Retirements. If members retire at older ages or with lower final average pays than assumed, there is a gain. If younger ages or higher average pays, a (loss).	1.0	0.5 %
Disability Retirements. If there are fewer disabilities than assumed, there is a gain. If more, a (loss).	0.0	0.0 %
Death-in-Service Benefits. If there are fewer claims than assumed, there is a gain. If more, a (loss).	0.2	0.1 %
Withdrawal. If more liabilities are released by other separations than assumed, there is a gain. If smaller releases, a (loss).	1.1	0.5 %
Retiree Mortality. If there are fewer deaths than assumed, there is a (loss). If more, a gain. This includes gains and losses related to Tier I pre-July 1, 1983 retired member increases.	(4.5)	(2.2)%
Other. Gains and losses resulting from group size change, data adjustments, timing of financial transactions, additional contributions and miscellaneous unidentified sources.	(0.5)	(0.3)%
Experience Gain/(Loss)	\$(9.4)	(4.5)%

GAIN/(LOSS) EXPERIENCE 2014-2015 YEAR

Amounts in \$ Millions



% of Accrued Liabilities



**DEVELOPMENT OF GAIN/(LOSS)
FROM RECOGNIZED INVESTMENT RETURN*
DURING THE PERIOD JULY 1, 2014 TO JUNE 30, 2015**

	\$ Millions
1. Total Funding Value Assets Beginning of Year	\$201.8
2. Total Funding Value of Assets End of Year	
a. Actual	215.4
b. If net investment return had been 7.25%	212.1
3. Gain (Loss): 2a minus 2b	\$3.3

* *Recognized "Investment return" as used in this Gain/(Loss) Analysis means assumed investment income plus a four-year phase-in of differences between actual market rate of return and the assumed rate of return.*

**MEMBERS WHO SEPARATED FROM ACTIVE EMPLOYMENT
DURING THE PERIOD JULY 1, 2004 TO JUNE 30, 2015**

Year	Number Added During Year	Terminations During the Year										Active Members End of Year
		Normal		Disability		Died-In		Withdrawals				
		Retirement		Retirement		Service		Vested	Other	Total		
		A	E	A	E	A	E	A	A	A	E	
2006	2	2	6.4	0	0.6	0	0.7	0	0	0	2.2	134
2007	11	6	8.3	1	0.6	0	0.8	1	3	4	1.8	134
2008	6	1	8.2	0	0.3	0	0.3	0	2	2	1.9	137
2009	28	18	12.0	0	0.3	1	0.3	1	7	8	1.6	138
2010	3	2	12.7	0	0.2	0	0.3	1	2	3	1.4	136
2011	13	3	14.4	0	0.2	1	0.3	1	3	4	1.3	141
2012	4	3	14.7	0	0.2	0	0.4	1	1	2	1.6	140
2013	13	6	14.6	0	0.2	0	0.3	0	7	7	1.3	140
2014	1	0	16.0	0	0.2	0	0.3	1	0	1	1.4	140
2015	19	14	17.9	0	0.2	1	0.4	5	0	5	1.0	139
10 Year Totals	100	55	125.2	1	3.0	3	4.1	11	25	36	15.5	

A = Actual
E = Expected

**MEMBERS ACTIVE BOTH BEGINNING AND END OF YEAR
SALARY INCREASES BY AGE GROUP
DURING THE PERIOD OF JULY 1, 2014 TO JUNE 30, 2015**

Age Groups	Percent Increase
35-39	8.22%
40-44	9.52%
45-49	9.53%
50-54	10.30%
55-59	9.67%
60-64	10.84%
65-69	11.47%
70-74	10.77%

SECTION D

ACTUARIAL METHODS AND ASSUMPTIONS

**SUMMARY OF ASSUMPTIONS USED
FOR ARKANSAS JUDICIAL ACTUARIAL VALUATIONS
ASSUMPTIONS ADOPTED BY BOARD OF TRUSTEES AFTER
CONSULTING WITH THE ACTUARY**

The actuarial assumptions used in the valuation are shown in this Section. Assumptions were established based upon an Experience Study covering the period July 1, 2006 through June 30, 2011 (please see report dated April 30, 2012) and updated in conjunction with an Economic Assumption Review dated August 6, 2015. The actuarial assumptions represent estimates of future experience.

Economic Assumptions

The investment return rate used in making the valuation was 6.25% per year, compounded annually (net after investment expenses). The investment return assumption was revised for the June 30, 2015 valuation.

Pay increase assumptions for individual active members are shown on page D-3. Part of the assumption for each age is for a merit and/or seniority increase, and the other 3.25% recognizes wage inflation. This wage inflation assumption consists of 2.50% for price inflation and 0.75% for real wage growth. The wage inflation assumption was revised for the June 30, 2015 valuation.

Total active member payroll is assumed to increase 3.25% a year, which is the portion of the individual pay increase assumptions recognizing inflation.

The number of active members is assumed to continue at the present number.

Non-Economic Assumptions

The mortality tables used to measure retired life mortality were the RP-2000 mortality tables projected to 2020 using projection scale BB. Related values are shown on page D-5. The mortality rates used in evaluating disability allowances were the RP-2000 Combined Healthy mortality tables, set forward 10 years for males and set forward 10 years for females. Related values are shown on page D-5. Based upon the experience observed in the most recent experience study for APERS, it appears that, at the time of the study, the current table provides for approximately 8 years of future mortality improvement. Adopted 2012.

(Concluded on the following page.)

**SUMMARY OF ASSUMPTIONS USED
FOR ARKANSAS JUDICIAL ACTUARIAL VALUATIONS
ASSUMPTIONS ADOPTED BY BOARD OF TRUSTEES AFTER
CONSULTING WITH THE ACTUARY
(CONCLUDED)**

The probabilities of retirement for members eligible to retire are shown on page D-4. Adopted 2012.

The probabilities of withdrawal from service, *death-in-service* and *disability* are shown for sample ages on page D-3. Adopted 2012.

Normal Cost. Normal Cost and the allocation of benefit values between service rendered before and after the valuation date was determined using an individual entry-age actuarial cost method having the following characteristics.

- The annual normal cost for each individual active member, payable from the date of employment to the date of retirement, is sufficient to accumulate the value of the member's benefit at the time of retirement; and
- Each annual normal cost is a constant percentage of the member's year-by-year projected covered pay.

The normal cost, the present value of future normal cost and the present value of benefits are based on the benefit levels available to each member. The accrued liability is the difference between the present value of benefits and the present value of future normal cost.

Funding value of assets (cash & investments) was determined by phasing-in differences between actual market return and the assumed rate of return over a four-year period.

The data about persons now covered and about present assets was furnished by the System's administrative staff. Although examined for general reasonableness, the data was not audited by the actuary.

The actuarial valuation computations were made by or under the supervision of a Member of the American Academy of Actuaries (MAAA).

**DECREMENT AND PAY INCREASE ASSUMPTIONS
FOR ACTIVE MEMBERS
JUNE 30, 2015**

Sample Ages	Years of Service	Percent of Active Members Separating Within the Next Year					Pay Increase Assumptions for Individual Member		
		Male		Female		Withdrawal	Merit & Seniority	Base (Economic)	Increase Next Year
		Death	Disability	Death	Disability				
	0					10.00%			
	1					6.00%			
	2					4.20%			
	3					3.36%			
	4					3.02%			
30	5+	0.02%	0.04%	0.01%	0.05%	0.85%	0.00%	3.25%	3.25%
35		0.04%	0.04%	0.02%	0.05%	0.85%	0.00%	3.25%	3.25%
40		0.05%	0.10%	0.03%	0.18%	0.85%	0.00%	3.25%	3.25%
45		0.07%	0.13%	0.05%	0.20%	0.85%	0.00%	3.25%	3.25%
50		0.10%	0.25%	0.08%	0.28%	0.85%	0.00%	3.25%	3.25%
55		0.17%	0.45%	0.12%	0.38%	0.85%	0.00%	3.25%	3.25%
60		0.29%	0.71%	0.21%	0.51%	0.85%	0.00%	3.25%	3.25%
65		0.50%	0.83%	0.38%	0.62%	0.85%	0.00%	3.25%	3.25%

The pay increase assumptions are age based only, and not service based.

**PROBABILITIES OF RETIREMENT FOR MEMBERS ELIGIBLE TO RETIRE
JUNE 30, 2015**

Retirement Ages	Percent of Eligible Active Members Retiring Within Next Year	Percent of Eligible Active Members Electing Early Retirement Within Next Year
50	4%	
51	4%	
52	6%	
53	6%	
54	8%	
55	10%	
56	10%	
57	12%	
58	12%	
59	12%	
60	14%	
61	14%	
62	20%	2%
63	20%	2%
64	20%	2%
65-69	24%	
70-74	30%	
75 & Over	100%	

For Tier One, a member was assumed eligible to retire at age 50 with 20 years of service, or at age 65 with 10 years of service. A member was assumed eligible to retire early at age 62 with 14 years of service.

For Tier Two, a member was assumed eligible to retire at age 50 with 20 years of service, or at age 65 with 8 years of service. A member was assumed eligible to retire early at age 62 with 8 years of service.

SINGLE LIFE RETIREMENT VALUES
JUNE 30, 2015

Sample Ages	Present Value of \$1 Monthly for Life		Present Value of \$1 Monthly for Life Increasing 3% Annually		Future Life Expectancy (Years)	
	Men	Women	Men	Women	Men	Women
50	\$164.26	\$168.65	\$239.67	\$250.44	32.99	35.59
55	154.63	160.07	218.09	230.04	28.37	30.90
60	143.02	149.36	194.61	207.34	23.94	26.34
65	129.36	136.56	169.59	182.83	19.74	21.98
70	113.67	121.98	143.44	157.39	15.83	17.93
75	96.28	105.90	116.96	131.66	12.26	14.25
80	78.11	88.66	91.43	106.26	9.13	10.95

Sample Attained Ages	\$100 Benefit Increasing 3% Annually	Portion of Age 65 Lives Still Alive	
		Men	Women
65	\$100.00	100%	100%
70	115.93	94%	95%
75	134.39	85%	88%
80	155.80	71%	76%
85	180.61	52%	61%

SUMMARY OF ASSUMPTIONS USED
JUNE 30, 2015
MISCELLANEOUS AND TECHNICAL ASSUMPTIONS

Marriage Assumption:	80% of males and 80% of females are assumed to be married for purposes of death-in-service benefits. 80% of members are assumed to be married at retirement. Male spouses are assumed to be six years older than female spouses for active member valuation purposes. Actual data is used for retired valuation purposes.
Pay Increase Timing:	Beginning of (Fiscal) year. This is equivalent to assuming that reported pays represent amounts paid to members during the year ended on the valuation date.
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:	Exact fractional service is used to determine the amount of benefit payable.
Decrement Relativity:	Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.
Decrement Operation:	Disability and withdrawal do not operate during retirement eligibility.
Normal Form of Benefit:	The assumed normal form of benefit is the 67% joint and survivor benefit.
Incidence of Contributions:	Contributions are assumed to be received continuously throughout the year based upon the computed percent-of-payroll shown in this report, and the actual payroll payable at the time contributions are made.
Tier 1 2.5% Benefit Multiplier Election:	For present value of future benefit purposes, it was assumed that all Tier 1 members will elect to accrue the additional 2.5% benefit multiplier (if they have not already done so). Member contribution rates are based upon those members that have elected to accrue the additional 2.5% benefit multiplier as of the valuation date.
Administrative Expenses:	The computed contribution rate was increased by 0.7% of payroll to fund for administrative expenses.

SECTION E
FINANCIAL PRINCIPLES

FINANCIAL PRINCIPLES AND OPERATIONAL TECHNIQUES OF AJRS

Promises Made and to be Paid for. As each year is completed, AJRS in effect hands an “IOU” to each member then acquiring a year of service credit -- the “IOU” says: “The Arkansas Judicial Retirement System owes you one year’s worth of retirement benefits, payments in cash commencing when you qualify for retirement.”

The related ***key financial questions*** are:

Which generation of taxpayers contributes the money to cover the IOU?

The present taxpayers, who receive the benefit of the member’s present year of service? ***Or the future taxpayers***, who happen to be in Arkansas at the time the IOU becomes a cash demand, years and often decades later?

The law governing AJRS financing intends that this year’s taxpayers contribute the money to cover the IOUs being handed out this year. With this financial objective, ***funds are accumulated during the members’ working years which, when combined with investment income, will be sufficient to pay benefits throughout the years of retirement.***

There are systems which have a design for deferring contributions to future taxpayers. Lured by a lower contribution rate now, they put aside the consequence that the contribution rate must then relentlessly grow to a level much higher than would be required if a level contribution pattern were followed.

An inherent feature of a pre-funded program is the accumulation of reserve assets, for decades, and the income produced when the assets are invested. ***Investment income*** becomes ***the third and largest contributor*** for benefits to employees, and is interlocked with the contribution amounts required from employees and employers.

Translated to actuarial terminology, this level-cost objective means that the contribution rates must total at least the following:

Normal Cost (the cost of members' service being rendered this year)

... plus ...

Interest on Unfunded Actuarial Accrued Liabilities (unfunded accrued liabilities are the difference between liabilities for service already rendered and accrued assets).

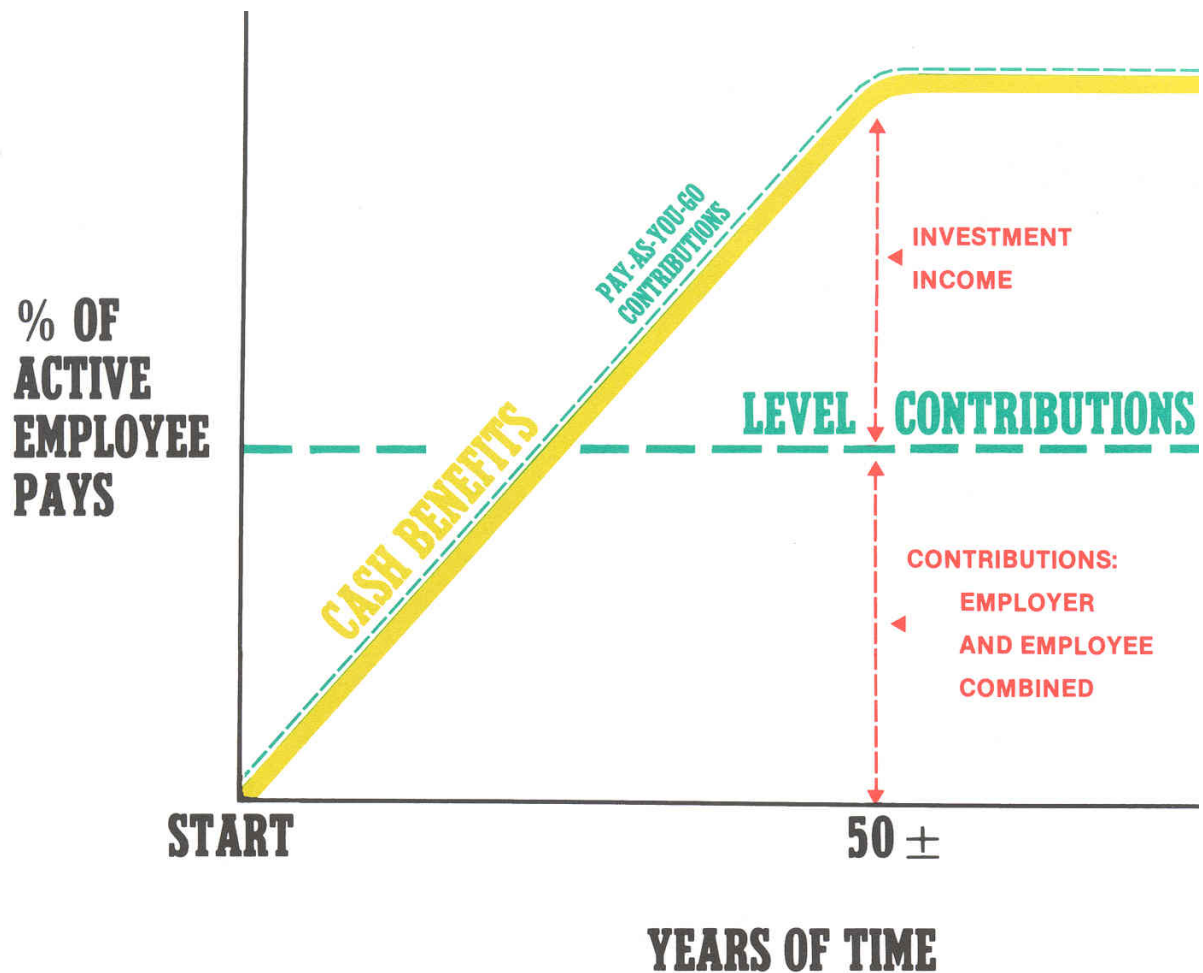
Computing Contributions to Support Fund Benefits. From a given schedule of benefits and from employee and asset data, the actuary calculates the contribution rates to support the benefits by means of ***an actuarial valuation and a funding method.***

An actuarial valuation has a number of ingredients such as: the rate of investment return which plan assets will earn; the rates of withdrawal of active members who leave covered employment; the rates of mortality; the rates of disability; the rates of pay increases; and the assumed age or ages at actual retirement.

In an actuarial valuation, assumptions must be made as to what the above rates will be for the next year and for decades in the future. The assumptions are established by the Board of Trustees after receiving the advice of the actuary.

Reconciling Differences Between Assumed Experience and Actual Experience. Once actual experience has occurred and has been observed, it will not coincide exactly with assumed experience, regardless of the skill of the actuary and the many calculations made. The future cannot be predicted with precision.

AJRS copes with these continually changing differences by having annual actuarial valuations. Each actuarial valuation is a complete recalculation of assumed future experience, taking into account all past differences between assumed and actual experience. The result is ***continuing adjustments in financial position.***



CASH BENEFITS LINE. This relentlessly increasing line is the fundamental reality of retirement plan financing. It happens each time a new benefit is added for future retirements (and happens regardless of the design for contributing for benefits).

LEVEL CONTRIBUTION LINE. Determining the level contribution line requires detailed assumptions concerning a variety of experiences in future decades, including:

Economic Risk Areas

- Rates of investment return
- Rates of pay increase
- Changes in active member group size

Non-Economic Risk Areas

- Ages at actual retirement
- Rates of mortality
- Rates of withdrawal of active members (turnover)
- Rates of disability

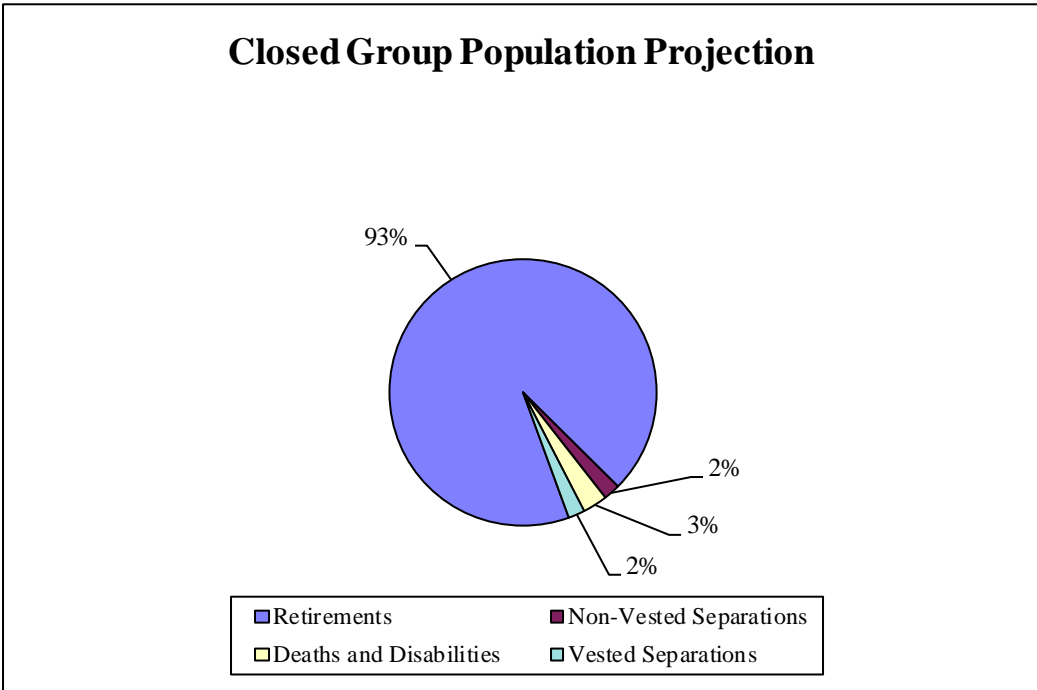
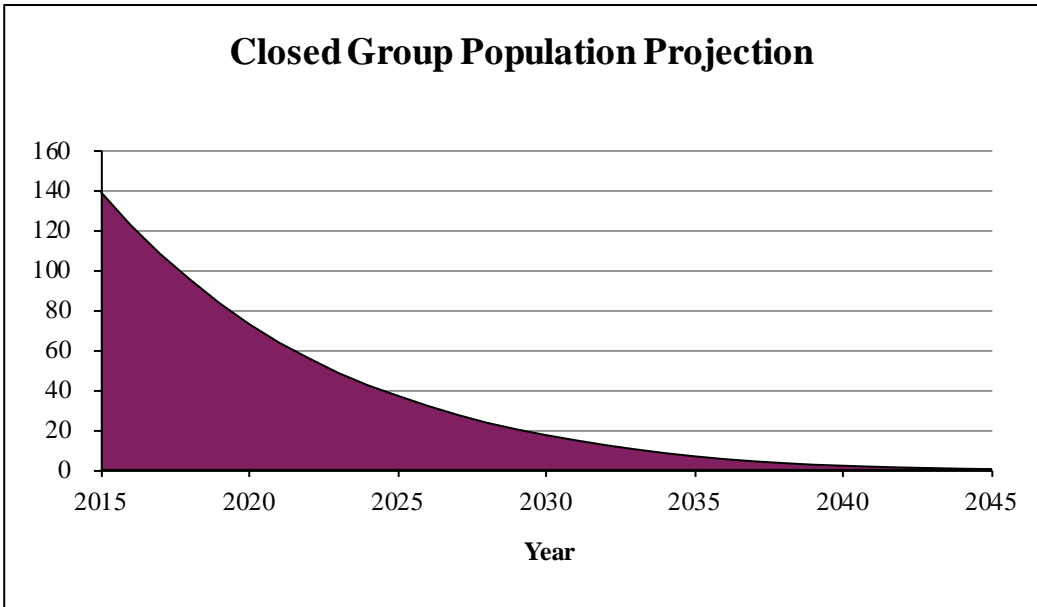
THE ACTUARIAL VALUATION PROCESS

The financing diagram on page E-3 shows the relationship between the two fundamentally different philosophies of paying for retirement benefits: the method where contributions match cash benefit payments (or barely exceed cash benefit payments, as in Social Security) which is an *increasing contribution method*; and the *level contribution method* which equalizes contributions between the generations.

The actuarial valuation is the mathematical process by which the level contribution rate is determined, and the flow of activity constituting the valuation may be summarized as follows:

- A. *Census Data*, furnished by the plan administrator.
 - Retired lives now receiving benefits
 - Former members with vested benefits not yet payable
 - Active members
- B. + *Asset data* (cash & investments), furnished by the plan administrator
- C. + *Benefit provisions* that establish eligibility and amounts of payments to members
- D. + *Assumptions concerning future experience in various risk areas*
- E. + *The funding method* (the long-term, planned pattern for employer contributions)
- F. + *Mathematically combining the assumptions, the funding method, and the data*
- G. = Determination of:
 - Plan financial position; and/or*
 - New Employer Contribution Rate*

**EXPECTED DEVELOPMENT OF PRESENT POPULATION
JUNE 30, 2015**



The charts above show the expected future development of the present population in simplified terms. The Retirement System presently covers 139 active members. Eventually, 2% of the population is expected to terminate covered employment prior to retirement and forfeit eligibility for an employer provided benefit. Approximately 95% of the present population is expected to receive monthly retirement benefits either by retiring directly from active service, or retiring from vested deferred status. About 3% of the present population is expected to become eligible for death-in-service or disability benefits. Within 6 years, over half of the covered membership is expected to consist of new hires.

GLOSSARY

Actuarial Accrued Liability - The difference between (i) the actuarial present value of future plan benefits, and (ii) the actuarial present value of future normal cost. Sometimes referred to as “accrued liability” or “past service liability.”

Accrued Service - The service credited under the plan which was rendered before the date of the actuarial valuation.

Accumulated Benefit Obligation - The actuarial present value of vested and non-vested benefits based on service to date and past and current salary levels.

Actuarial Assumptions - Estimates of future plan 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.

Actuarial Cost Method - A mathematical budgeting procedure for allocating the dollar amount of the “actuarial present value of future plan benefits” between the actuarial present value of future normal cost and the actuarial accrued liability. Sometimes referred to as the “actuarial funding method.”

Actuarial Equivalent - A single amount or series of amounts of equal value to another single amount or series of amounts, computed on the basis of the rate(s) of interest and mortality tables used by the plan.

Actuarial Present Value - The amount of funds presently required to provide a payment or series of payments in the future. It is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment.

Amortization - Paying off an interest-bearing liability by means of periodic payments of interest and principal, as opposed to paying it off with a lump sum payment.

GLOSSARY (CONCLUDED)

Experience Gain/(Loss) - A measure of the difference between actual experience and that expected based upon a set of actuarial assumptions during the period between two actuarial valuation dates, in accordance with the actuarial cost method being used.

Normal Cost - The annual cost assigned, under the actuarial funding method, to current and subsequent plan years. Sometimes referred to as “current service cost.” Any payment toward the unfunded actuarial accrued liability is not part of the normal cost.

Plan Termination Liability - The actuarial present value of future plan benefits based on the assumption that there will be no further accruals for future service and salary. The termination liability will generally be less than the liabilities computed on a “going-concern” basis and is not normally determined in a routine actuarial valuation.

Reserve Account - An account used to indicate that funds have been set aside for a specific purpose and are not generally available for other uses.

Unfunded Actuarial Accrued Liability - The difference between the actuarial accrued liability and valuation assets. Sometimes referred to as “unfunded accrued liability.”

Valuation Assets - The value of current plan assets recognized for valuation purposes. Generally based on a phase-in of differences between actual and assumed market rates of return.

MEANING OF “UNFUNDED ACTUARIAL ACCRUED LIABILITIES”

“*Actuarial accrued liabilities*” are *the present value of the portions of promised benefits that are not covered by future normal cost contributions* --- a liability has been established (“accrued”) because the service has been rendered but the resulting monthly cash benefit may not be payable until years in the future.

If “actuarial accrued liabilities” at any time exceed the plan’s accrued assets (cash & investments), the difference is “*unfunded actuarial accrued liabilities.*” This is the common condition. It is less common when a plan’s assets equal or exceed the plan’s “actuarial accrued liabilities.”

Each time a plan adds a new benefit, which applies to service already rendered, an “actuarial accrued liability” is created, which is also an “unfunded actuarial accrued liability” because the plan can’t print instant cash to cover the value of the new benefit promises. Payment for such unfunded actuarial accrued liabilities is spread over a period of years, commonly in the 15-30 year range.

Unfunded actuarial accrued liabilities can occur in another way: if actual plan experience is less favorable than assumed, the difference is added to unfunded actuarial accrued liabilities. For example, in plans where benefits are directly related to an employee’s pay near time of retirement, unfunded actuarial accrued liabilities increased rapidly during the 1970’s because unexpected rates of pay increase created additional actuarial accrued liabilities which could not be matched by reasonable investment results. Most of the unexpected pay increases were the direct result of inflation, which is a very destructive force on financial stability.

The existence of unfunded actuarial accrued liabilities is not bad but the changes from year-to-year in amount of unfunded actuarial accrued liabilities are important --- “bad” or “good” or somewhere in between.

Nor are unfunded actuarial accrued liabilities a bill payable immediately, but it is important that policy-makers prevent the amount from becoming unreasonably high and *it is vital for plans to have a sound method for making payments toward them* so that they are controlled.

SECTION F

ACTUARIAL AND REQUIRED SUPPLEMENTAL INFORMATION FOR COMPLIANCE WITH APPLICABLE GOVERNMENTAL ACCOUNTING STANDARDS BOARD STATEMENTS

This information is presented in draft form for review by the System's auditor. Please let us know if there are any items that the auditor changes so that we may maintain consistency with the System's financial statements.

**SCHEDULE OF FUNDING PROGRESS
FOR COMPLIANCE WITH APPLICABLE GASB STATEMENTS**

(\$ Thousands)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Entry Age AAL (b)	UAAL (b)-(a)	Funded Ratio (a)/(b)	Annual Covered Payroll (c)	UAAL as a Percentage of Covered Payroll [(b-a)/(c)]
6/30/96	\$ 51,478	\$ 63,452	\$ 11,974	81.1 %	\$11,714	102 %
6/30/97	63,284	65,657	2,373	96.4 %	12,422	19 %
6/30/98	77,175	71,274	(5,901)	108.3 %	13,084	-
6/30/99	91,783	82,776	(9,007)	110.9 %	13,891	-
6/30/00	107,059	83,211	(23,848)	128.7 %	14,371	-
6/30/01	119,191	116,073	(3,118)	102.7 %	14,869	-
6/30/02	124,212	124,734	522	99.6 %	15,487	3 %
6/30/03	126,520	137,925	11,405	91.7 %	15,935	72 %
6/30/04	129,065	141,775	12,710	91.0 %	16,282	78 %
6/30/05	135,062	150,580	15,519	89.7 %	16,638	93 %
6/30/06	145,050	156,510	11,459	92.7 %	17,009	67 %
6/30/07	159,587	157,373	(2,215)	101.4 %	17,334	-
6/30/08	169,061	165,747	(3,314)	102.0 %	18,074	-
6/30/09	167,433	180,166	12,732	92.9 %	18,875	67 %
6/30/10	165,244	182,912	17,668	90.3 %	18,630	95 %
6/30/11	165,377	186,635	21,258	88.6 %	19,338	110 %
6/30/12	167,796	195,455	27,658	85.8 %	19,202	144 %
6/30/13	182,596	203,134	20,537	89.9 %	19,586	105 %
6/30/14	201,792	208,006	6,213	97.0 %	19,782	31 %
6/30/15	215,448	254,714	39,266	84.6 %	22,308	176 %

**SCHEDULE OF EMPLOYER CONTRIBUTIONS
FOR COMPLIANCE WITH APPLICABLE GASB STATEMENTS**

Year Ended June 30	Annual Required Contribution	Percent Contributed
1996	\$3,291,509	100%
1997	4,441,390	100%
1998	3,650,957	100%
1999	3,160,812	100%
2000	3,183,709	100%
2001	3,136,072	100%
2002	3,319,233	100%
2003	4,065,638	100%
2004	4,126,190	100%
2005	4,774,986	100%
2006	4,904,699	100%
2007	5,182,016	100%
2008	5,144,958	100%
2009	4,466,571	100%
2010	4,667,612	100%
2011	5,220,623	100%
2012	5,465,079	100%
2013	5,672,291	100%
2014	6,117,327	100%
2015	5,690,381	100%

**REQUIRED SUPPLEMENTARY INFORMATION
FOR COMPLIANCE WITH APPLICABLE GASB STATEMENTS**

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest valuation date follows:

Valuation Date	June 30, 2015
Actuarial Cost Method	Entry Age
Amortization Method	Level Percent-of-Payroll
Remaining Amortization Period	28 - Year Closed
Asset Valuation Method	4-year smoothed market with 25% corridor
Actuarial Assumptions:	
Investment Rate of Return	6.25%
Projected Salary Increases	3.25%
Including price inflation at	2.50%
Cost-of-living adjustments	Pre July 1, 1983 Retirees: Increased with increases in active Judges pay. Post June 30, 1983 Retirees: 3.0%, Compound.
Retirees and beneficiaries receiving benefits	137
Terminated plan members entitled to but not yet receiving benefits	4
Active plan members	<u>139</u>
Total	280

November 3, 2015

Ms. Gail H. Stone
Executive Director
Arkansas Judicial Retirement System
One Union National Plaza
124 West Capitol, Suite 400
Little Rock, Arkansas 72201

**Re: Arkansas Judicial Retirement System - Annual Actuarial Valuation and
2014/2015 Gain/(Loss) Analysis of Financial Experience**

Dear Gail:

Enclosed are 20 copies of this report.

Sincerely,

A handwritten signature in black ink that reads "Mita Drazilov". The signature is written in a cursive style with a large initial "M".

Mita D. Drazilov

MDD:bd
Enclosures