

Judges' Retirement System of the State of Montana

Actuarial Valuation as of June 30, 2010

Produced by Cheiron

October 2010

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October 5, 2010

Public Employees' Retirement Board 100 North Park, Suite 200 Helena, Montana 59620

Dear Members of the Board:

At your request, we have conducted the annual actuarial valuation of the Judges' Retirement System as of June 30, 2010. The results of the valuation are contained in this report. The purpose of the valuation is discussed in the Foreword.

This report contains information on System assets, as well as analyses which combine asset and liability performance and projections. The report also discloses employer contribution levels, and required disclosures under the Governmental Accounting Standards Board Statement No. 25.

Your attention is called to the Foreword in which we refer to the general approach employed in the preparation of this report. We also comment on the sources and reliability of both the data and the actuarial assumptions on 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. The results of this report are only applicable for Fiscal Year ending 2010 and rely on future System experience conforming to the underlying assumptions. To the extent that actual System experience deviates from the underlying assumptions, the results would vary accordingly.

I hereby certify that, to the best of my knowledge, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board, and that as a Members of the American Academy of Actuaries, I meet the Qualification Standards to render the opinions contained herein.

Sincerely, Cheiron

Stephen T. McElhanev, FSA Consulting Actuary

Margaret Tempkin, FSA Consulting Actuary



i

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FOREWORD

Cheiron has performed the actuarial valuation of the Judges' Retirement System as of June 30, 2010. The purpose of this report is to:

- 1) **Measure and disclose**, as of the valuation date, the financial condition of the System;
- 2) **Indicate trends** in the financial progress of the System;
- 3) **Determine the sufficiency of the statutory contribution rate** paid by the employers for Fiscal Year 2010; and
- 4) **Provide specific information** and documentation required by the Governmental Accounting Standards Board (GASB).

An actuarial valuation establishes and analyzes System assets and liabilities on a consistent basis, and traces the progress of both from one year to the next. It includes measurement of the System's investment performance as well as an analysis of actuarial liability gains and losses.

Section I presents a summary containing our findings and disclosing important trends experienced by the System in recent years.

Section II contains details on various asset measures, together with pertinent performance measurements.

Section III shows similar information on System liabilities, measured for actuarial, accounting, and government reporting purposes.

Section IV develops the employer contribution rate determined using actuarial techniques.

Section V includes the required disclosures under GASB Statement number 25.

The appendices to this report contain a summary of the System's membership at the valuation date, a summary of the major provisions of the System, and the actuarial methods and assumptions used in the valuations.

In preparing our report, we relied without audit, on information (some oral and some written) supplied by the staff of the Public Employee Retirement Administration. This information includes, but is not limited to, plan provisions, employee data, and financial information.

The actuarial assumptions reflect our understanding of the likely future experience of the System and the assumptions as a whole represent our best estimate for the future experience of the System. The results of this report are dependent upon future experience conforming to these assumptions. To the extent that future experience deviates from the actuarial assumptions, the true cost of the System could vary from our results.

Finally, in preparing this report, we have conformed to generally accepted actuarial principles and practices which are consistent with the Code of Professional Conduct, and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board.



SECTION I BOARD SUMMARY

General Comments

This is the second valuation of the Judges' Retirement System performed by Cheiron. All results shown for valuations prior to June 30, 2009 were derived from reports prepared by the prior actuary.

Since the System continues to have a negative unfunded actuarial liability, the period to amortize the unfunded actuarial liability has remained at 0.0 years. During the year ended June 30, 2010, the System's assets gained 12.82% on a market value basis. However, due to the System's assetsmoothing technique which recognizes only a portion of the gains and losses, the return on the actuarial asset value was a negative 0.96%. This return was below the assumed rate of return of 8.0% and resulted in an actuarial loss on investments of \$5.5 million.

The System also experienced an actuarial loss on System liabilities resulting from salary increases different than assumed and members retiring, terminating, becoming disabled and dying at rates different from the actuarial assumptions. The loss added \$1.6 million from the actuarial liability. This type of activity is normal in the course of System experience. The System will experience actuarial gains and losses over time because we cannot predict exactly how people will behave. When a plan experiences alternating gains and losses that are small compared to the total actuarial liability, then the plan's actuarial assumptions are reasonable.

The System also experienced an actuarial gain on System liabilities due to the change in economic and demographic assumptions that were updated as a result of the 2009 experience study. The gain deducted \$3.2 million from the actuarial liability.

As of the June 30, 2010 actuarial valuation, the System's unfunded actuarial liability was (\$18.8) million. This is an increase from last year's unfunded actuarial liability of (\$20.1) million. Components of the decrease in surplus include a \$5.5 million loss on System assets, a \$3.2 million gain on System liabilities. The funded ratio decreased from 148% at the prior valuation to 144% at June 30, 2010.

Montana Code Annotated (MCA) 19-2-407 requires an analysis of how market performance is affecting the actuarial funding of the Retirement System. The market value at June 30, 2010 was \$8.7 million less than actuarial value. If market value were used rather than actuarial value, the funded ratio on the valuation date would be 124%, and the amortization period for the unfunded actuarial liability would be 0 years.

Since the previous valuation an experience study was performed and several of the actuarial assumptions were changed. A description of the changes in assumptions appears within Appendix B of this report. The following table compares the results at June 30, 2010 using the previous and the revised assumptions.



SECTION I BOARD SUMMARY

Table I-1 Judges' Retirement System Summary of Assumption Changes

Summary of Assumption Changes						
	Previous Assumptions	New Assumptions				
Valuation as of:	June 30, 2010	June 30, 2010				
Actuarial Accrued Liability (AL)	\$ 45,727,376	\$ 42,512,725				
Actuarial Value of Assets (AVA)	61,277,322	61,27,322				
Unfunded AL	\$ (15,549,946)	\$ (18,764,597)				
Funded ratio	134.01%	144.14%				
Amortization period for statutory						
funding rate	0 years	0 years				
30-year Level Funding Rate	7.48%	5.52%				
Shortfall (surplus) from statutory rate	(25.33%)	(27.29%)				



SECTION I BOARD SUMMARY

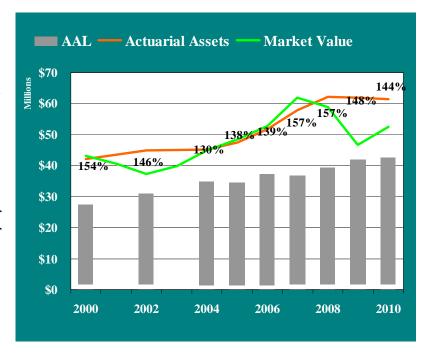
Trends

Assets and Liabilities

The market value of assets (MVA) increased over last year, due to a investment earnings of 12.82% over the past year. The determination of the System's actuarial value of assets reflects only a portion of the amount by which the return was above the assumed rate of 8%.

Over the period July 1, 2004 to June 30, 2010 the System's assets returned approximately 5.6% per year measured at actuarial value, compared to a valuation assumption of 8% per year.

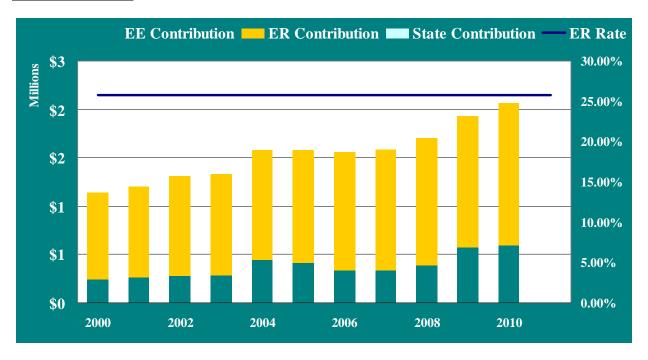
For funding purposes, the target amount is represented by the top of the gray bar. We compare the actuarial value of assets to this measure of liability in developing the funded percent. These are the percentages shown in the graph labels.





SECTION I BOARD SUMMARY

Contribution Rates



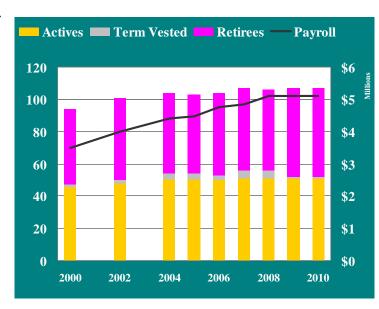
The stacked bars in this graph show the contributions made by members, employers and the State (left hand scale). The black line shows the employer contribution rate as a percent of payroll (right hand scale).

The employer and member contribution rates are set by State law. The actuarial valuation determines the extent to which the statutory contributions will meet the requirements of funding the System.

Participant Trends

The bars show the number of participants in each category and should be read using the left-hand scale. As with any maturing fund, this System continues to show growth in the number of retired members. The active-to-inactive ratio has decreased from 1.0 actives to each inactive in 2000 to 0.9 actives for each inactive today.

The black line shows the covered payroll in the System and is read using the right-hand scale.





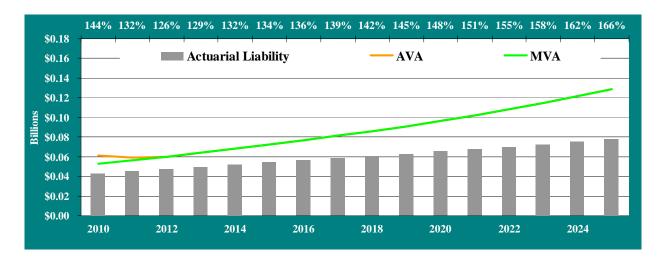
SECTION I BOARD SUMMARY

Future Outlook

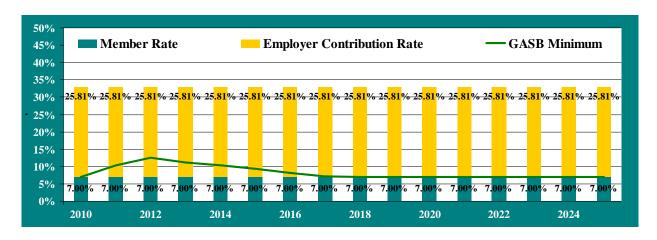
Base Line Projections

These graphs show the expected progress of the System over the next fifteen years assuming the System's assets earn 7.75% on their *market value*, and that contributions continue to be made at the current statutory rates.

The chart below shows the funded status of the plan is expected to decrease substantially over the next two years as excluded investment losses are recognized by the smoothing method. The funded status will then increase gradually over the remainder of the fifteen years exceeding its current level.



The chart below shows that the total contribution computed on a GASB Minimum basis will increase to about 13% of payroll over the next several years and then decrease until the employer portion becomes zero by 2017.

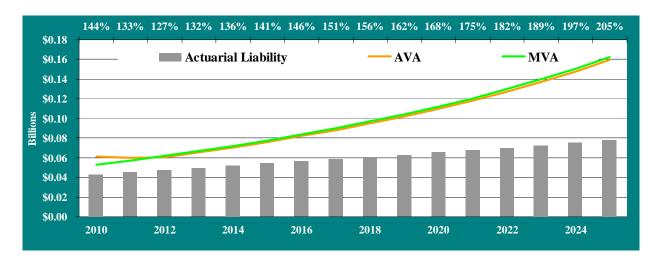




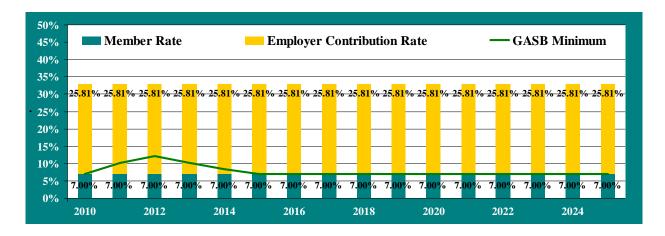
SECTION I BOARD SUMMARY

Projections With Asset Returns of 9.25%

The future funding status of this System will be largely driven by the investment earnings. Due to the size of assets, as compared to liabilities, the System is in a highly leveraged position. This means that relatively minor changes in market returns can have significant effects on the System's status. These two charts below show what the next fifteen years would look like with a 9.25% annual return in each year (i.e. 1.5% greater than the assumed rate of return).



Compared to the baseline projections, the funded status begins to improve some after a decrease over the next two years and exceeds 200% by the end of the fifteen year period. The employer portion of the GASB Minimum contribution drops to zero by 2015.

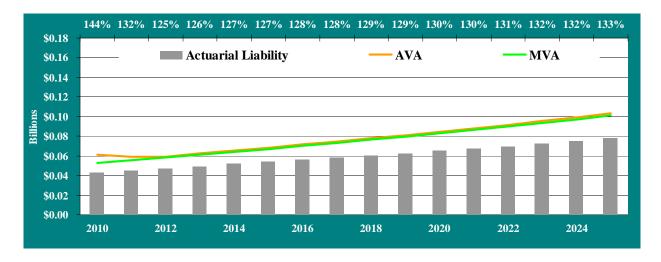




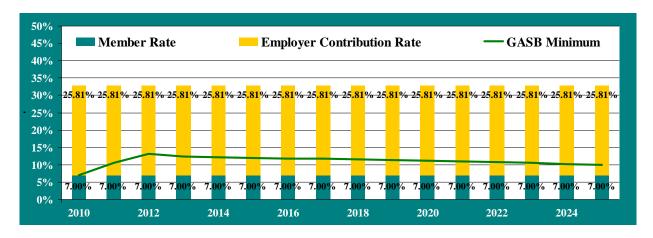
SECTION I BOARD SUMMARY

Projections With Asset Returns of 6.25%

To further demonstrate how the future funding of this System will be driven by investment earnings, we show the anticipated System funding projections if the invested assets earn 6.25% per year over the entire fifteen-year period (i.e., 1.5% less than the assumed rate of return).



Under this scenario the funded status decreases initially and then steadily increases to above 130%. The GASB Minimum contribution increases and then decreases to about approximately 10% of pay.





SECTION I BOARD SUMMARY

	Table I-2							
Judges' Retirement System								
Summary of Principal System Results Valuation as of: June 30, 2009 June 30, 2010 % Change								
Participant Counts								
Active Members		51		51	0.0%			
Disabled Members*		0		2	N/A			
Retirees and Beneficiaries*		55		53	(3.6%)			
Terminated Vested Members		1		1	0.0%			
Terminated Non-Vested Members		0		0	N/A			
Total**		107		107	0.0%			
Annual Salaries of Active Members	\$	5,095,047	\$	5,684,250	11.6%			
Average Annual Salary	\$	99,903	\$	111,456	11.6%			
Annual Retirement Allowances for Retired Members and Beneficiaries	\$	2,036,479	\$	2,159,809	6.1%			
Assets and Liabilities Actuarial Accrued Liability (AAL) Actuarial Value of Assets (AVA) Unfunded AAL Funded Ratio (AVA/AAL)	\$ 	41,848,128 61,928,749 (20,080,621) 147,98%	\$ 	42,512,725 61,277,322 (18,764,597) 144,14%	1.6% (1.1%) (6.6%)			
, , , , , , , , , , , , , , , , , , ,	\$		¢		0.10/			
Present Value of Accrued Benefits (PVAB) Market Value of Assets	Ф	39,181,012 46,645,640	\$	42,374,062 52,564,722	8.1% 12.7%			
Unfunded PVAB	\$	(7,464,628)	\$	(10,190,660)	36.5%			
Accrued Benefit Funding Ratio	Ψ	119.05%	Ψ	124.05%	30.370			
Ratio of Actuarial Value to Market Value		132.76%		116.57%				
Contributions as a Percentage of Payroll								
Statutory Funding Rate		32.810%		32.810%				
Normal Cost Rate		25.900%		23.040%				
Available for Amortization of UAL		6.910%		9.770%				
Period to Amortize		0.0 years		0.0 years				
Projected 30-year Level Funding Rate		(0.450%)		5.520%				
Projected Shortfall (Surplus)		(33.260%)		(27.290%)				

^{*} Based on PERA categorization for the annual report. For actuarial valuation purposes, 1 member in 2009 and 2 members in 2010 were valued as disabled members with offsetting reductions to the number of retired members.



^{**} A reconciliation of participant counts appears at the beginning of Appendix A.

SECTION II ASSETS

Pension Plan assets play a key role in the financial operation of the System and in the decisions the Trustees may make with respect to future deployment of those assets. The level of assets, the allocation of assets among asset classes, and the methodology used to measure assets will likely impact upon benefit levels, State contributions, and the ultimate security of participants' benefits.

In this section, we present detailed information on System assets including:

- **Disclosure** of System assets at June 30, 2009 and June 30, 2010;
- Statement of the **changes** in market values during the year;
- Development of the Actuarial Value of Assets;
- An assessment of **investment performance**; and
- A projection of the System's expected **cashflows** for the next ten years.

Disclosure

The market value of assets represents a "snap-shot" or "cash-out" values which provide the principal basis for measuring financial performance from one year to the next. Market values, however, can fluctuate widely with corresponding swings in the marketplace.

The actuarial values are market values which have been smoothed and used for evaluating the System's ongoing liability to meet its obligations.

The actuarial value of assets is the current market value, adjusted by a four-year smoothing of gains and losses on a market value basis. Each year's gain or loss is determined difference between the actual market return and the expected market return using the assumed rate of investment return.

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SECTION II ASSETS

Table II-1 Changes in Market Values				
Value of Assets – June 30, 2009	in Market Values	\$	46,645,640	
Additions				
Member Contributions	\$	595,197		
Employer Contributions		,467,777		
State Contributions		0		
Investment Return	5.	,984,381		
Other		0		
Total Additions	\$ 8	,047,355		
Deductions				
Benefit Payments	\$ 2	,118,121		
Administrative Expenses		10,152		
Total Deductions	\$ 2	,128,273		
Value of Assets – June 30, 2010		\$	52,564,722	



SECTION II ASSETS

Actuarial Value of Assets

The actuarial value of assets represents a "smoothed" value developed by the actuary to reduce, or eliminate, erratic results which could develop from short-term fluctuations in the market value of assets. For this System, the actuarial value has been calculated by taking the market value of assets less 75% of the investment gain (loss) during the preceding year, less 50% of the investment gain (loss) during the second preceding year, and less 25% of the investment gain (loss) during the third preceding year. The tables below illustrate the calculation of actuarial value of assets for the June 30, 2010 valuation.

Table II-2 Market Value Gain/(Loss)	
Value of Assets – June 30, 2009	\$ 46,645,640
Employer Contributions Benefit Payments Expected Return at 8.0%	\$ 2,062,974 (2,118,121) 3,729,488
Expected Value at June 30, 2010	\$ 50,319,981
Actual Value at June 30, 2010	\$ 52,564,722
Investment Gain/(Loss)	\$ 2,244,741

Table II-3 Develop Excluded Gain/(Loss)						
		Total Gain/(Loss)	Excluded Portion			
Exclude 75% of 2010 Gain/(Loss)	\$	2,244,741	\$ 1,683,556			
Exclude 50% of 2009 Gain/(Loss)	\$	(16,817,812)	\$ (8,408,906)			
Exclude 25% of 2008 Gain/(Loss)	\$	(7,949,000)	\$ (1,987,250)			
Total Excluded Gain/(Loss) for AVA Calculation \$ (8,712,600)						



SECTION II ASSETS

Table II-4 Actuarial Value of Assets	
Market Value of Assets – June 30, 2010	\$ 52,564,722
Total Gain/(Loss) excluded	(8,712,600)
Actuarial Value of Assets – June 30, 2010	\$ 61,277,322

Investment Performance

The market value of assets (MVA) returned 12.82% during 2010, which is less than the assumed 8% return. A return of (0.96%) on the actuarial value of assets (AVA) is primarily the result of the asset smoothing method being utilized for the calculation of the actuarial value of assets. Since only 25% of the gain or loss from the performance of the System is recognized in a given year, in periods of very good performance, the AVA can lag significantly behind the MVA. In a period of negative returns, the AVA does not decline as rapidly as the MVA.

Table II-5 Annual Rates of Return					
Year Ending June 30,	Market Value	Actuarial Value			
2004	13.26%	N/A			
2005	8.10%	5.49%			
2006	8.97%	9.38%			
2007	17.94%	11.92%			
2008	(4.83%)	7.62%			
2009	(20.61%)	(0.11%)			
2010	12.82%	(0.96%)			



MONTANA GAME WARDENS' AND PEACE OFFICERS' RETIREMENT SYSTEM ACTUARIAL VALUATION AS OF JUNE 30, 2008

SECTION II ASSETS

Table II-6 Projection of System's Benefit Payments and Contributions								
Year Beginning July 1,	Year Beginning July 1, Expected Benefit Payments Expected Contributions							
2010	\$ 2,359,311	\$ 1,939,603						
2011	2,610,861	2,017,187						
2012	2,812,748	2,097,874						
2013	3,074,753	2,181,789						
2014	3,380,196	2,269,061						
2015	3,476,119	2,359,823						
2016	3,782,831	2,454,216						
2017	4,108,177	2,552,385						
2018	4,265,282	2,654,480						
2019	4,339,497	2,760,659						

^{*} Expected contributions include Employer Contributions and Member Contributions. For illustration purposes, we have assumed that all contribution rates will remain level and that payroll will increase at the actuarially assumed rate of 4.00% per year.

Expected benefit payments are projected for the closed group valued at June 30, 2010. Projecting any farther than ten years using a closed-group would not yield reliable predictions due to the omission of new hires.



SECTION III LIABILITIES

In this section, we present detailed information on System liabilities including:

- **Disclosure** of System liabilities at June 30, 2009 and June 30, 2010; and
- Statement of **changes** in these liabilities during the year.
- Details on the source of actuarial gains and losses between this valuation and the last; and
- Development of actuarial unfunded liability on a market value basis as required under MCA 12-2-407

Disclosure

Several types of liabilities are calculated and presented in this report. Each type is distinguished by the people ultimately using the figures and the purpose for which they are using them.

- **Present Value of Benefits:** Used for analyzing the financial outlook of the System, this represents the amount of money needed today to fully pay off all future benefits and expenses of the System, assuming participants continue to accrue benefits.
- Actuarial Accrued Liability: Used for funding calculations and GASB disclosures, this liability is calculated taking the Present Value of Benefits and subtracting the present value of future Member Contributions and future Employer Normal Costs under an acceptable actuarial funding method. This method is referred to as the Entry Age Normal (EAN) funding method.
- **Present Value of Accrued Liabilities:** Used for communicating the current level of liabilities, this liability represents the total amount of money needed today to fully pay off the current accrued obligations of the System, assuming no future accruals of benefits. These liabilities are also required for accounting purposes (FASB ASC Topic No. 960) and used to assess whether the System can meet its current benefit commitments.

The following table discloses each of these liabilities for the current and prior valuations. With respect to each disclosure, a subtraction of the appropriate value of System assets yields, for each respective type, a **net surplus** or an **unfunded liability**.



SECTION III LIABILITIES

Table III-1						
Liabilities/Net (Surplus)/Unfunded June 30, 2009 June 30, 2010						
Present Value of Benefits						
Active Participant Benefits	\$	27,255,579	\$	28,691,548		
Retiree and Inactive Benefits		22,067,212		22,790,662		
Present Value of Benefits (PVB)	\$	49,322,791	\$	51,482,210		
Market Value of Assets (MVA)	\$	46,645,640	\$	52,564,722		
Future Member Contributions		2,055,430		2,818,768		
Future Employer Contributions		7,578,664		10,393,200		
Funding Shortfall/(Surplus)	\$	(6,956,943)	\$	(14,294,480)		
Total Resources	\$	49,322,791	\$	51,482,210		
Actuarial Accrued Liability						
Present Value of Benefits (PVB)	\$	49,322,791	\$	51,482,210		
Present Value of Future Normal Costs (PVFNC)		7,475,000		8,969,485		
Actuarial Accrued Liability (AAL=PVB-PVFNC)		41,847,791		42,512,725		
Actuarial Value of Assets (AVA)		61,928,749		61,277,322		
Net (Surplus)/Unfunded (AAL – AVA)	\$	(20,080,958)	\$	(18,764,597)		
Present Value of Accrued Liability						
Present Value of Benefits (PVB)	\$	49,322,791	\$	51,482,210		
Present Value of Future Benefit Accruals (PVFBA)		10,141,779		9,108,148		
Present Value of Accrued Liability (PVAB=PVB-PVFBA)		39,181,012		42,374,062		
Market Value of Assets (MVA)		46,645,640		52,564,722		
Net Unfunded (PVAB – MVA)	\$	(7,464,628)	\$	(10,190,660)		



SECTION III LIABILITIES

Changes in Liabilities

Each of the Liabilities disclosed in the prior table are expected to change at each valuation. The components of that change, depending upon which liability is analyzed, can include:

- New hires since the last valuation
- Benefits accrued since the last valuation
- System amendments increasing benefits
- Passage of time which adds interest to the prior liability
- Benefits paid to retirees since the last valuation
- Participants retiring, terminating, or dying at rates different than expected
- A change in actuarial or investment assumptions
- A change in the actuarial funding method

Unfunded liabilities will change because of all of the above, and also due to changes in System assets resulting from:

- Employer contributions different than expected
- Investment earnings different than expected
- A change in the method used to measure System assets

In each valuation, we report on those elements of change which are of particular significance, potentially affecting the long-term financial outlook of the System. Below we present key changes in liabilities since the last valuation. On the next page we provide more detail on the sources of the actuarial (gain)/loss as measured on the basis of actuarial accrued liability.

Table III-2						
		Present Value of	Act	uarial Accrued Liability		esent Value of crued Liability
(In Thousands)		Benefits			7100	or ded Diability
Liabilities June 30, 2009	\$	49,322,791	\$	41,848,128	\$	39,181,012
Liabilities June 30, 2010		51,482,210		42,512,725		42,374,062
Liability						
Increase (Decrease)		2,159,419		664,597		3,193,050
Change Due to:						
Actuarial (Gain)/Loss		NC*		1,557,276		NC*
Assumption Changes		(1,646,530)		(3,214,651)		280,897
Benefits Accumulated						
and Other Sources		3,805,949		2,321,972		2,912,153

^{*} NC = not calculated.



SECTION III LIABILITIES

Table III-3 Summary of Actuarial Gains and Losses as of June 30, 2010					
Summary of freeduction Summa und Dossess als of Sume 20, 2010					
Actuarial Liabilities as of July 1, 2009	\$	41,848,128			
Normal Cost	Ψ	1,089,797			
Actual Benefit Payments		(2,118,121)			
Expected Earnings		3,350,296			
Expected Actuarial Liability as of July 1, 2010		44,170,100			
Actual Liability as of July 1, 2010 (before assumption changes)	\$	45,727,376			
Liability (Gain)/Loss	\$	1,557,276			
Sources of Liability (Gain)/Loss					
Salary (Gain)/Loss	\$	1,064,798			
New Participant (Gain)/Loss		77,489			
Active Retirements (Gain)/Loss		230,080			
Active Terminations (Gain)/Loss		0			
Active Deaths (Gain)/Loss		(32,797)			
Active Disability (Gain)/Loss		3,705			
Inactive Decrements (Gain)/Loss		214,.001			
Actual Liability as of July 1, 2010 (after assumption changes)	\$	42,512,725			
Liability (Gain)/Loss due to assumption changes	\$	(3,214,651)			
Actuarial Value of Assets as of July 1, 2009	\$	61,928,749			
Net Cash Flow		(55,147)			
Expected Earnings		4,952,136			
Expected Actuarial Value of Assets as of July 1, 2010		66,825,738			
Actual Actuarial Value of Assets as of July 1, 2010	\$	61,277,322			
Investment (Gain)/Loss	\$	5,548,416			
Total Liability (Gain)/Loss		(1,657,375)			
Total Actuarial (Gain)/Loss	\$	3,891,041			



SECTION III LIABILITIES

Table III-4 shows the actuarial liabilities as of the prior and current valuation dates. The unfunded actuarial liability is the difference between the actuarial liability and the actuarial value of assets. The funded ratio is the ratio of the actuarial value of assets to the actuarial liability.

	Table III-4 Actuarial Liabilities for Funding									
June 30, 2009 June 3										
1.	Actuarial Liabilities Retiree and Inactive Benefits Active Member Benefits Total Actuarial Liability	\$ \$	22,067,212 19,780,916 41,848,128	\$ \$	22,790,662 19,722,063 42,512,725					
2.	Actuarial Value of Assets	\$	61,928,749	\$	61,277,322					
3.	Unfunded Actuarial Liability	\$	(20,080,621)	\$	(18,764,597)					
4.	Funded Ratio		147.98%		144.14%					

Montana Code Annotated (MCA) 19-2-407 requires an analysis of how market performance is affecting the actuarial funding of the System. Table III-5 presented below shows the same information as in Table III-4 above, but using market value of assets rather than actuarial value of assets.

	Table III-5 Actuarial Liabilities on Market Value Basis (MCA 19-2-407)									
	Actuarial Liabilities on Market Valu		s (MCA 19-2-40 ine 30, 2009	,	me 30, 2010					
1.	Actuarial Liabilities									
	Retiree and Inactive Benefits	\$	22,067,212	\$	22,790,662					
	Active Member Benefits		19,780,916		19,722,063					
	Total Actuarial Liability	\$	41,848,128	\$	42,512,725					
2.	Market Value of Assets	\$	46,645,640	\$	52,564,722					
3.	Unfunded Actuarial Liability	\$	(4,797,512)	\$	(10,051,997)					
4.	Funded Ratio		111.46%		123.64%					



SECTION IV CONTRIBUTIONS

In the process of evaluating the financial condition of any pension plan, the actuary analyzes the assets and liabilities to determine what level (if any) of contributions is needed to properly maintain the funding status of the Plan. Typically, the actuarial process will use a funding technique that will result in a pattern of contributions that are both stable and predictable.

For this System, the funding method employed is the **Entry Age Actuarial Cost Method**. Under this method, there are two components to the total contribution: the **normal cost rate** and the **unfunded actuarial liability rate** (UAL rate). The normal cost rate is determined by taking the value, as of entry age into the plan, of each member's projected future benefits. This value is then divided by the value, also at entry age, of each member's expected future salary. The normal cost rate is multiplied by current salary to determine each member's normal cost rate. Finally, the total normal cost rate is reduced by the member contribution to produce the employer normal cost rate. The difference between the EAN actuarial liability and the actuarial value of assets is the unfunded actuarial liability.

For purposes of determining the adequacy of the statutory funding rate, the UAL rate is calculated by subtracting the normal cost rate from the statutory rate. A calculation is then made to determine the period over which the UAL rate will amortize the unfunded actuarial liability. A second UAL rate is calculated based upon a 30-year amortization of the UAL, which is the maximum amortization period permitted under GASB Statement No. 25, but which should not necessarily be construed as a recommended contribution level. All UAL payments are determined as a level percentage of pay, assuming that total pay increases by the annual inflation rate of 4.00%.



SECTION IV CONTRIBUTIONS

The tables below present and compare the contribution rates for the System for this valuation and the prior one.

Table IV-1 Statutory Basis											
	June 30, 2009 June 30, 2010										
Statutory Funding Rates											
Members	7.000%	7.000%									
Employers	25.810%	25.810%									
Total	32.810%	32.810%									
Normal Cost Rate	25.900%	23.040%									
Funding Rate Available for Amortization	6.910%	9.770%									
Unfunded Actuarial Liability (Surplus)	(20,080,621)	(18,764,597)									
Years to Amortize*	0.0 years	0.0 years									

^{*} On a market value basis, the Years to Amortize the Unfunded Actuarial Liability was 0.0 years at June 30, 2009 and 0.0 years at June 30, 2010.



SECTION IV CONTRIBUTIONS

Table IV-2 Calculated Contribution Basis									
	June 30, 2009	June 30, 2010							
Normal Cost Rate	25.900%	23.040%							
Educational Fund	0.000%	0.000%							
Amortization Payment (30-years)	(26.350%)	<u>(17.520%)</u>							
Total Calculated Contribution Rate	(0.450%)	5.520%							
Less Statutory Rate	32.810%	<u>32.810%</u>							
Shortfall (Surplus) in Statutory Rate	$(\overline{33.260\%})$	$(\overline{27.290\%})$							

Table IV-3 Calculated Contribution on Market Value (MCA 19-2-407)									
	June 30, 2009	June 30, 2010							
Normal Cost Rate	25.900%	23.040%							
Educational Fund	0.000%	0.000%							
Amortization Payment (30-years)	<u>(6.290%)</u>	<u>(9.390%)</u>							
Total Calculated Contribution Rate	19.610%	13.650%							
Less Statutory Rate	<u>32.810%</u>	<u>32.810%</u>							
Shortfall (Surplus) in Statutory Rate	(13.200%)	(19.160%)							

As the remaining unrecognized losses are picked and amortized in future valuations, we project the following results for the next 5 valuations (assuming all assumptions are met, including 7.75% return):

Table IV-4 Projected Calculated Contribution Rates								
Valuation Year Rate								
2011	10.35%							
2012	12.64%							
2013	11.23%							
2014	10.27%							
2015	9.27%							



SECTION V ACCOUNTING STATEMENT INFORMATION

Accounting Standard Codification Topic No. 960 of the Financial Accounting Standards Board requires the System to disclose certain information regarding its funded status. Statement No. 25 of the Governmental Accounting Standards Board (GASB) establishes standards for disclosure of pension information by public employee retirement systems (PERS) and governmental employers in notes to financial statements and supplementary information.

The FASB ASC Topic No. 960 disclosures provide a quasi "snap shot" view of how the System's assets compare to its liabilities if contributions stopped and accrued benefit claims had to be satisfied. However, due to potential legal requirements and the possibility that alternative interest rates would have to be used to determine the liabilities, these values may not be a good indication of the amount of money it would take to buy the benefits for all members if the System were to terminate.

The GASB-25 actuarial accrued liability is the same as the actuarial liability amount calculated for funding purposes.

Both the present value of accrued benefits (FASB ASC Topic No. 960) and the actuarial accrued liability (GASB-25) are determined assuming that the System is on-going and participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions. Liabilities are discounted at the assumed valuation interest rate of 7.75% per annum.

FASB ASC Topic No. 960 specifies that a comparison of the present value of accrued (accumulated) benefits with the market value of the assets as of the valuation date must be provided. GASB Statement No. 25 requires the actuarial accrued liability be compared with the actuarial value of assets for funding purposes. The relevant amounts as of June 30, 2010 are exhibited in Table V-1.

Tables V-2 through V-5 are exhibits to be used with the State CAFR report. Table V-2 is the Note to Required Supplementary Information, Table V-3 is a history of gains and losses in Accrued Liability, Table V-4 is the Schedule of Funding Progress, and V-5 is the Solvency Test which shows the portion of Accrued Liability covered by Assets.



SECTION V ACCOUNTING STATEMENT INFORMATION

		Table V-1 Accounting Statement Is	nfor	nation		
		Accounting Statement I		une 30, 2009	J	June 30, 2010
A.		ASB ASC Topic No. 960 Basis Present Value of Benefits Accrued and Vested to Date				
		a. Members Currently Receiving Paymentsb. Former Vested Membersc. Active Members	\$	21,624,497 442,715 17,113,800	\$	22,278,747 511,915 19,583,400
	2.	Total Present Value of Accrued Benefits (1 (a) + 1(b) + 1(c))		39,181,012	\$	42,374,062
	3.	3. Assets at Market Value		46,645,640		52,564,722
	4.	Unfunded Present Value of Accrued Benefits $(2-3)$	\$	(7,464,628)	\$	(10,190,660)
	5.	Ratio of Assets to Present Value of Benefits (3 / 2)		119.05%		124.05%
В.	GA	ASB No. 25 Basis				
	1.	Actuarial Accrued Liabilities for retirees and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits	\$	22,067,212	\$	22,790,662
	2.	Actuarial Accrued Liabilities for current employees		19,780,916		19,722,063
	3.	Total Actuarial Accrued Liability (1 + 2)	\$	41,848,128	\$	42,512,725
	4.	Net Actuarial Assets available for benefits		61,928,749		61,277,322
	5.	Unfunded Actuarial Accrued Liability (3 – 4)	\$	(20,080,621)	\$	(18,764,597)



SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-2 NOTE TO REQUIRED SUPPLEMENTARY INFORMATION

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

Valuation date June 30, 2010

Actuarial cost method Entry age

Amortization method Open

Remaining amortization period for 30 years

Annual Required Contribution

Asset valuation method 4-Year smoothed market

Actuarial assumptions:

Investment rate of return*

General wage growth*

Merit salary increases

*Includes inflation at

7.75%

4.00%

3.00%

The actuarial assumptions used have been recommended based on the most recent review of the System's experience (completed in 2010) and adopted by the Retirement Board.

The rate of employer contributions to the System is composed of the normal cost and amortization of the unfunded actuarial accrued liability. The normal cost is a level percent of payroll cost which will pay for projected benefits at retirement for each participant. The actuarial accrued liability is that portion of the present value of projected benefits that will not be paid by future normal costs. The difference between this liability and the funds accumulated as of the same date is the unfunded actuarial accrued liability.



SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-3 ANALYSIS OF FINANCIAL EXPERIENCE*

Gain and Loss in Accrued Liability During Years Ended June 30 Resulting from Differences Between Assumed Experience and Actual Experience

Gain (or Loss) for Year ending June 30,

	(expressed in thousands)								
Type of Activity	2005		2006		2007		2008	2009	2010
Investment Income on Actuarial Assets	\$ (1,141)	\$	640	\$	2,017	\$	(227)	\$ (5,032)	\$ (5,548)
Combined Liability Experience (Loss)/Gain During Year from Financial Experience	$\frac{2,480}{1,339}$	\$	(541) 99	\$	2,644 4,661	\$	(538)	$\frac{102}{\$ (4,930)}$	$\frac{(1,557)}{(7,105)}$
Non-Recurring Items Composite Gain (or Loss) During Year	\$ 1,339	\$	<u>0</u> 99	\$	4,661	\$	$\frac{0}{(538)}$	$\frac{0}{\$ (4.930)}$	$\frac{3,215}{\$ (3,890)}$

Table V-4 SCHEDULE OF FUNDING PROGRESS* (expressed in thousands)

Valuation Date June 30,	Actuarial Value of Assets	Actuarial Accrued Liability (AAL)	Funded Ratio	Unfunded AAL (UAAL)	Covered Payroll	UAAL as a Percentage of Covered Payroll
2010	\$ 61,277	42,513	144	\$ (18,764)	5,687	(330)
2009	61,929	41,848	148	(20,081)	5,110	(393)
2008	62,040	39,435	157	(22,605)	5,096	(444)
2007	57,778	36,863	157	(20,915)	4,841	(432)
2006	51,808	37,158	139	(14,650)	4,762	(308)
2005	47,552	34,525	138	(13,027)	4,462	(292)

st Years prior to 2009 were taken from reports prepared by prior actuary.



SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-5 **SOLVENCY TEST* Aggregate Accrued Liabilities for** (expressed in thousands) Active Member **Employer** Active **Actuarial Valuation Date** Member **Retirants &** Financed Value of **Portion of Accrued Liabilities** June 30, **Contributions Beneficiaries** Reported **Covered by Reported Assets Contributions (2) (3) Assets (1) (3) (1) (2)** 22,279 2010 5,207 \$ 15,027 61,277 100 225 100 2009 4,790 21,624 15,433 61,929 100 100 230 14,323 2008 4,431 20,682 62,040 100 100 258 2007 3,863 20,446 12,554 57,778 100 267 100 2006 13,107 51,808 100 3,690 20,362 100 212 2005 19,411 11,635 47,552 212 3,479 100 100



^{*} Years prior to 2009 were taken from reports prepared by prior actuary

APPENDIX A MEMBERSHIP INFORMATION

Reconciliation of Participant Counts									
	Active	Disabled	Retirees and Beneficiaries	Terminated Vested Members	Terminated Non-Vested Members	Total			
Participant counts used for valuation	51	2	53	1	0	107			
Disabled members having attained normal retirement age		(2)	2			0			
Beneficiaries of Disabled Members						0			
Beneficiaries with less than one year of certain payments remaining			-			0			
Other Adjustments						0			
Participant counts shown in Annual Financial Report	51	0	55	1	0	107			

This chart is presented for informational purposes only. The counts shown in the valuation line were used for preparation of the liabilities disclosed within this report. The counts disclosed for the Annual Financial Report and the Board Summary (page 7) match the CAFR reports at the request of the Board. The differences between the counts have no material effect upon the liability calculation.

The salaries used in the tables and charts which follow are different than the salaries used for the Board Summary on page 7. For this Appendix A, the valuation projected salaries to be paid for the following fiscal year, whereas for the Board Summary, salaries are as of the valuation date.

The benefits for retirees and beneficiaries used for the tables and charts which follow are different than the benefits used for the Board Summary on page 7. For this Appendix A, the valuation projected benefits to be paid for the following fiscal year (including GABA where applicable), whereas for the Board Summary, annual benefits are as of the valuation date.



APPENDIX A MEMBERSHIP INFORMATION

Judges' Retirement System Distribution of Active Members by Age and Service as of June 30, 2010

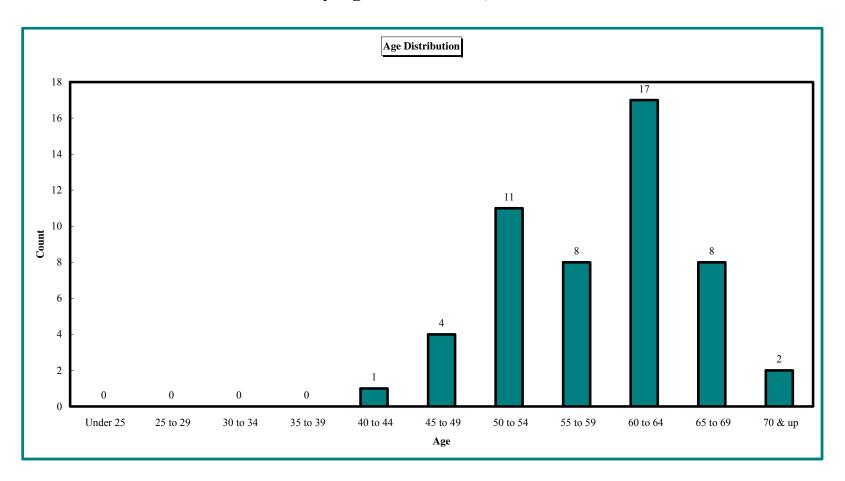
COUNTS BY AGE/SERVICE

		Service									
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25	0	0	0	0	0	0	0	0	0	0	0
25 to 29	0	0	0	0	0	0	0	0	0	0	0
30 to 34	0	0	0	0	0	0	0	0	0	0	0
35 to 39	0	0	0	0	0	0	0	0	0	0	0
40 to 44	0	0	1	0	0	0	0	0	0	0	1
45 to 49	0	1	3	0	0	0	0	0	0	0	4
50 to 54	0	4	4	2	0	1	0	0	0	0	11
55 to 59	0	0	1	2	4	1	0	0	0	0	8
60 to 64	0	2	6	1	5	1	2	0	0	0	17
65 to 69	0	1	0	2	2	0	3	0	0	0	8
		0		11			1			0	
70 & up	0	0	0	1	0	0	I	0	0	U	
Total	0	8	15	8	11	3	6	0	0	0	51



APPENDIX A MEMBERSHIP INFORMATION

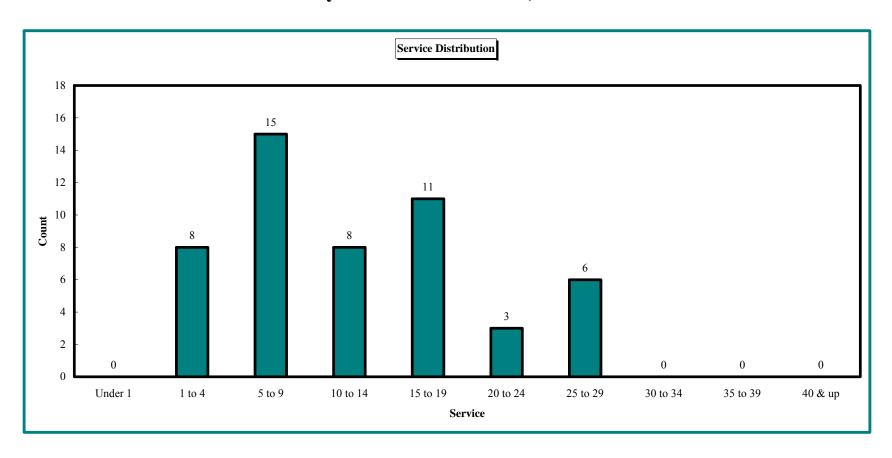
Judges' Retirement System Distribution of Active Members by Age as of June 30, 2010





APPENDIX A MEMBERSHIP INFORMATION

Judges' Retirement System Distribution of Active Members by Service as of June 30, 2010





APPENDIX A MEMBERSHIP INFORMATION

Judges' Retirement System Distribution of Active Members by Age and Service as of June 30, 2010

AVERAGE SALARY BY AGE/SERVICE

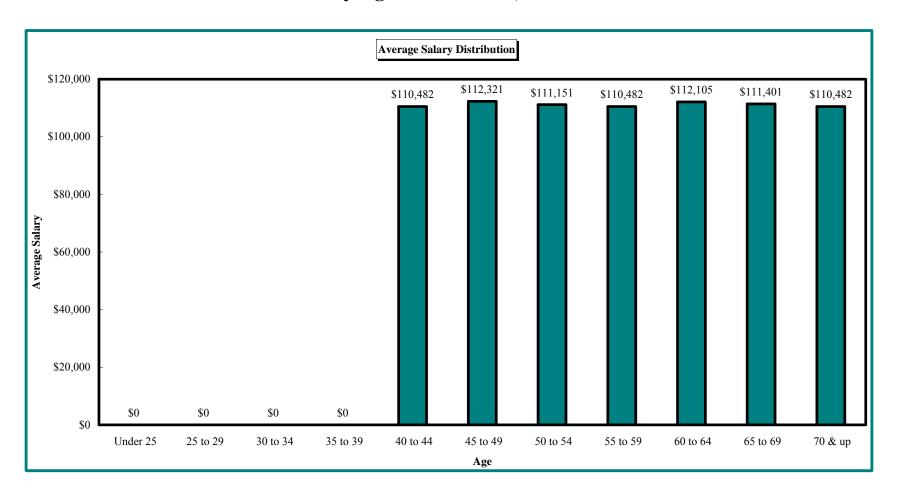
					Servi	ce					
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25 to 29	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30 to 34	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35 to 39	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
40 to 44	\$0	\$0	\$110,482	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$110,482
45 to 49	\$0	\$110,482	\$112,934	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$112,321
50 to 54	\$0	\$110,482	\$112,321	\$110,482	\$0	\$110,482	\$0	\$0	\$0	\$0	\$111,151
55 to 59	\$0	\$0	\$110,482	\$110,482	\$110,482	\$110,482	\$0	\$0	\$0	\$0	\$110,482
60 to 64	\$0	\$116,926	\$111,708	\$110,482	\$111,953	\$110,482	\$110,482	\$0	\$0	\$0	\$112,105
65 to 69	\$0	\$110,482	\$0	\$110,482	\$114,160	\$0	\$110,482	\$0	\$0	\$0	\$111,401
70 & up	\$0	\$0	\$0	\$110,482	\$0	\$0	\$110,482	\$0	\$0	\$0	\$110,482
Total	\$0	\$112,093	\$111,953	\$110,482	\$111,819	\$110,482	\$110,482	\$0	\$0	\$0	\$111,456

The salary shown in the above chart was used for valuation purposes and assumes pay increases for the year.



APPENDIX A MEMBERSHIP INFORMATION

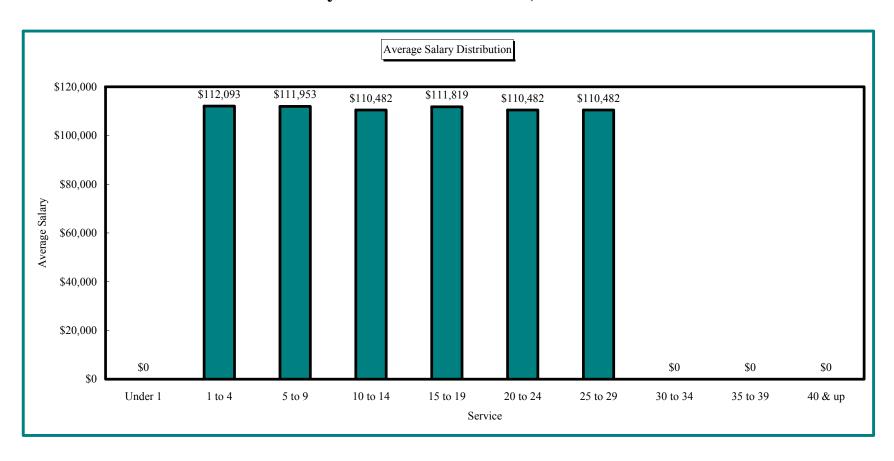
Judges' Retirement System Distribution of Active Members by Age as of June 30, 2010





APPENDIX A MEMBERSHIP INFORMATION

Judges' Retirement System Distribution of Active Members by Service as of June 30, 2010





APPENDIX A MEMBERSHIP INFORMATION

Judges' Retirement System Distribution of Retired Members, Survivors, and Disabled Members as of June 30, 2010

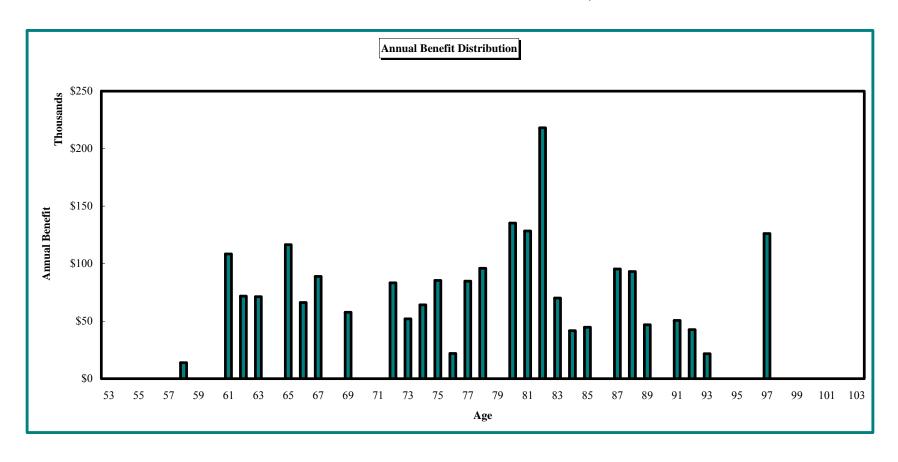
255 0 S0 73 1 S52,064 255 0 S0 74 1 S64,237 26 0 S0 76 1 S21,912 27 0 S0 76 1 S21,912 28 0 S0 77 72 2 S85,420 29 0 S0 78 2 S95,963 30 0 S0 78 2 S95,963 30 0 S0 80 81 3 S128,443 33 0 S0 82 5 S21,82,29 34 0 S0 83 2 5 S21,82,29 34 0 S0 84 2 S41,822 36 0 S0 84 2 S41,822 37 0 S0 85 85 2 S44,738 37 0 S0 86 0 S0 38 0 S0 87 2 S93,384 39 0 S0 88 2 2 S44,738 37 0 S0 88 2 2 S44,738 38 0 S0 88 2 2 S44,738 39 0 S0 88 2 2 S44,738 30 0 S0 87 2 S93,384 40 0 S0 88 2 2 S93,135 40 0 S0 88 2 2 S44,738 37 0 S0 88 2 2 S93,135 40 0 S0 89 1 S46,873 41 0 S0 99 0 S0 42 0 S0 99 1 S46,873 41 0 S0 99 1 S50,693 43 0 S0 99 1 S50,693 44 0 S0 99 0 S0 45 0 S0 99 0 S0 46 0 S0 99 0 S0 47 0 S0 99 0 S0 48 0 S0 99 0 S0 50 S0 50 S0	Age	Count	Annual Benefit	Age	Count	Annual Benefit
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27 0 \$0 76 1 \$21,912 28 0 \$0 77 2 \$84,803 29 0 \$0 79 0 \$0 30 0 \$0 \$0 79 0 \$0 31 0 \$0 \$0 \$0 \$13,346 \$135,346 32 0 \$0 \$2 \$218,229 \$2 \$218,229 34 0 \$0 \$3 \$2 \$218,229 \$344 \$312,443 \$33 \$0 \$0 \$83 \$2 \$218,229 \$344 \$2 \$418,822 \$36 \$0 \$0 \$85 \$2 \$218,823 \$36 \$0 \$0 \$0 \$88 \$2 \$31,824 \$33 \$36 \$0 \$0 \$0 \$88 \$2 \$41,822 \$34,823 \$39 \$38 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	26	0	\$0	75	2	\$85,420
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71 0 \$0 120 0 \$0 72 2 \$83,360				119	0	\$0
72 2 \$83,360		0		120	0	\$0
	72					
				Totals	55	\$2,198,449

The chart above reflects the counts and benefits used for valuation purposes as a result of data processing. The benefit amounts shown have been projected using a half year cola assumption.



APPENDIX A MEMBERSHIP INFORMATION

Judges' Retirement System Distribution of Retired Members, Survivors, and Disabled Members as of June 30, 2010





APPENDIX A MEMBERSHIP INFORMATION

Judges' Retirement System Distribution of Vested Members as of June 30, 2010

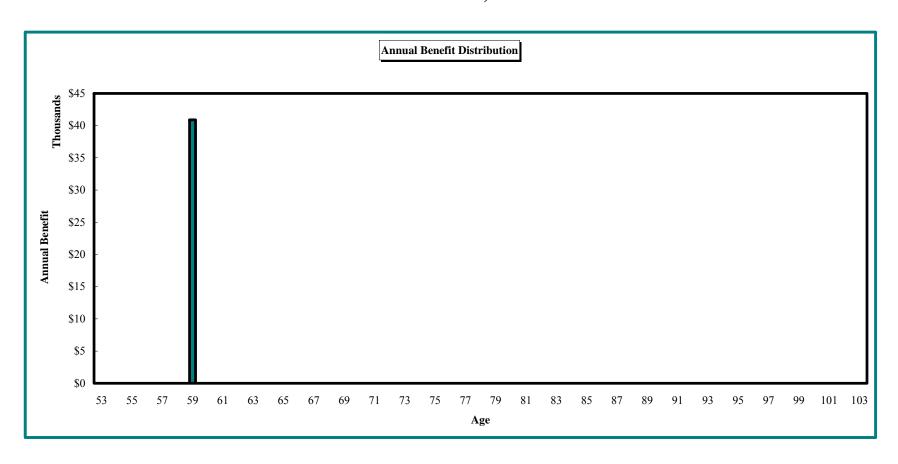
Age	Count	Annual Benefit	Age	Count	Annual Benefit
<25	0	\$0	73	0	\$0
25	0	\$0	74	0	\$0
26	0	\$0	75	0	\$0
27	0	\$0	76	0	\$0
28	0	\$0	77	0	\$0
29	0	\$0	78	0	\$0
30	0	\$0	79	0	\$0
31	0	\$0	80	0	\$0
32	0	\$0	81	0	\$0
33	0	\$0	82	0	\$0
34	0	\$0	83	0	\$0
35	0	\$0	84	0	\$0
36	0	\$0	85	0	\$0
37	0	\$0	86	0	\$0
38	0	\$0	87	0	\$0
39	0	\$0	88	0	\$0
40	0	\$0	89	0	\$0
41	0	\$0	90	0	\$0
42	0	\$0	91	0	\$0
43	0	\$0	92	0	\$0
44	0	\$0	93	0	\$0
45	0	\$0	94	0	\$0
46	0	\$0	95	0	\$0
47	0	\$0	96	0	\$0
48	0	\$0	97	0	\$0
49	0	\$0	98	0	\$0
50	0	\$0	99	0	\$0
51	0	\$0	100	0	\$0
52	0	\$0	101	0	\$0
53	0	\$0	102	0	\$0
54	0	\$0	103	0	\$0
55	0	\$0	104	0	\$0
56	0	\$0	105	0	\$0
57	0	\$0	106	0	\$0
58	0	\$0	107	0	\$0
59	1	\$40,889	108	0	\$0
60	0	\$0	109	0	\$0
61	0	\$0	110	0	\$0
62	0	\$0	111	0	\$0
63	0	\$0	112	0	\$0
64	0	\$0 \$0	113	0	\$0
65	0	\$0	114	0	\$0
66	0	\$0 \$0	115	0	\$0 \$0
67	0	\$0	116	0	\$0
68	0	\$0 \$0	117	0	\$0 \$0
69	0	\$0 \$0	117	0	\$0 \$0
70	0	\$0 \$0	119	0	\$0 \$0
71	0	\$0 \$0	120	0	\$0 \$0
72	0	\$0 \$0	120	O	Ψ0
, 2	O	Ψ0	Totals	1	\$40,889
				-	,

The chart above reflects the counts and benefits used for valuation purposes as a result of data processing.



APPENDIX A MEMBERSHIP INFORMATION

Judges' Retirement System Distribution of Vested Members as of June 30, 2010





APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

A. Long-Term Assumptions Used to Determine Plan Costs and Liabilities

1. Demographic Assumptions

a. Healthy Retirees, Beneficiaries and Non-Retired Members

RP-2000 Combined Healthy Male and Female Mortality Tables projected to 2015 with scale AA.

Sample Rates of Healthy Mortality				
Age	Male	Female		
50	0.163%	0.130%		
55	0.241%	0.241%		
60	0.530%	0.469%		
65	1.031%	0.900%		
70	1.770%	1.553%		
75	3.062%	2.492%		
80	5.536%	4.129%		
85	9.968%	7.076%		
90	17.271%	12.588%		

b. Disabled Inactive Mortality

RP-2000 Combined Healthy Male and Female Mortality Tables with no projections.

Sample Rates of Disabled Inactive Mortality Age Male Female					
50	0.241%	0.168%			
55	0.362%	0.272%			
60	0.675%	0.506%			
65	1.274%	0.971%			
70	2.221%	1.674%			
75	3.783%	2.811%			
80	6.437%	4.588%			
85	11.076%	7.745%			
90	18.341%	13.168%			



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

c. Rates of Active Disability

Sample Rates Age	of Active Disability Rate
22	0.00%
27	0.00%
32	0.01%
37	0.04%
42	0.10%
47	0.13%
52	0.25%
57	0.36%
62	0.00%

All disabilities are assumed to be non-duty-related. All disabilities are assumed to be permanent and without recovery.

d. Termination of Employment (Prior to Normal Retirement Eligibility)

No terminations are assumed other than for retirement, death or disability

e. Retirement

Annual Retirement Rates			
Age Rate			
60	15.00%		
61 - 64	5.00%		
65	15.00%		
66 – 69	5.00%		
70 & over	100.00%		

Vested terminations are assumed to retire at their earliest unreduced eligibility.



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

f. Merit/Seniority Salary Increase (in addition to across-the-board increase)

Service based table plus an annual inflation rate of 4.00% (rates shown below exclude amount for inflation).

g .	Annual
Service	Increase
1	0.00%
2	0.00%
3	0.00%
4	0.00%
5	0.00%
6	0.00%
7	0.00%
8	0.00%
9	0.00%
10-14	0.00%
15-19	0.00%
20 & over	0.00%

g. Family Composition

Female spouses are assumed to be four years younger than males.

100% of non-retired employees are assumed married for both male and female employees.

Actual marital characteristics are used for pensioners.

h. Vested Benefits for Terminated Members

Vested benefits for members who terminated during the years ending June 30, 2009 and later were estimated based upon compensation and service information in the census data. For members who terminated prior to June 30, 2008, vested benefits valued were the same as had been calculated by the prior actuary for the June 30, 2008 actuarial valuation.



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

2. Economic Assumptions

a. Rate of Investment Return: 7.75%
b. Rate of Wage Inflation: 4.00%
c. Interest on Member Contributions: 3.50%

d. Rate of Increase in Total Payroll

(for Amortization): 4.00%

3. Changes Since Last Valuation

The demographic and economic assumptions were updated to reflect the 2009 experience study. The prior assumptions are listed below for those assumptions where changes were made:

a. Demographic Assumptions

i. Healthy Retirees, Beneficiaries and Non-Retired Members

Male: Male UP-1994 Mortality Table set back one year. Female: Female UP-1994 Mortality Table set back one year.

Sample Rates of Healthy Mortality				
Age	Male	Female		
50	0.250%	0.141%		
55	0.428%	0.224%		
60	0.762%	0.415%		
65	1.391%	0.819%		
70	2.336%	1.367%		
75	3.661%	2.192%		
80	6.007%	3.802%		
85	9.636%	6.557%		
90	14.995%	11.247%		



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

ii. Disabled Inactive Mortality

Male: IRS Revenue Ruling 96-7, Male Table set back three years. Female: IRS Revenue Ruling 96-7, Female Table set forward one year.

Sample Rates of Disabled Inactive Mortality				
Age	Male	Female		
50	2.085%	1.697%		
55	2.587%	1.976%		
60	3.194%	2.344%		
65	3.933%	2.828%		
70	4.900%	3.492%		
75	6.468%	4.710%		
80	8.522%	6.346%		
85	10.971%	9.015%		
90	14.405%	13.322%		

iii. Rates of Active Disability

Sample Rates of Active Disability				
Age	Male	Female		
22	0.00%	0.00%		
27	0.01%	0.01%		
32	0.01%	0.01%		
37	0.06%	0.03%		
42	0.09%	0.15%		
47	0.17%	0.15%		
52	0.36%	0.30%		
57	0.62%	0.36%		
62	0.00%	0.00%		

10% of disabilities are assumed to be duty-related. All disabilities are assumed to be permanent and without recovery.



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

iv. Retirement

Annual Retirement Rates					
Year first Age <15 years attaining 15 >15 years years					
60 – 64	0.00%	50.00%	0.00%		
65	0.00%	100.00%	100.00%		
66	0.00%	100.00%	100.00%		
67	0.00%	100.00%	100.00%		
68	0.00%	100.00%	100.00%		
69	0.00%	100.00%	100.00%		
70	100.00%	100.00%	100.00%		

Vested terminations are assumed to retire at their earliest unreduced eligibility.

v. Merit/Seniority Salary Increase (in addition to across-the-board increase)

Service based table plus an annual inflation rate of 4.25%.

b. Economic Assumptions

Rate of Investment Return:	8.00%
Rate of Wage Inflation:	4.25%
Interest on Member Contributions:	5.00%
Rate of Increase in Total Payroll	
(for Amortization):	4.25%
	Interest on Member Contributions: Rate of Increase in Total Payroll



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

B. Actuarial Methods

1. Funding Method

The Entry Age Normal Actuarial Cost method is used to determine costs. Under this funding method, a normal cost is determined as a level percent of pay individually for each active employee.

The actuarial accrued liability is that portion of the present value of projected benefits that will not be paid by future normal costs. The difference between this liability and funds accumulated as of the same date is referred to as the unfunded actuarial liability.

The portion of the actuarial accrued liability in excess of plan assets is amortized to develop an additional cost or savings which is added to each year's employer normal cost. Under this cost method, actuarial gains and losses are directly reflected in the size of the unfunded actuarial liability.

2. Actuarial Value of Assets

For purposes of determining the unfunded actuarial accrued liability, we use an actuarial value of assets. The asset adjustment method dampens the volatility in asset values that could occur because of fluctuations in market conditions. Use of an asset smoothing method is consistent with the long-term nature of the actuarial valuation process.

The actuarial value of assets is the current market value, adjusted by a four-year smoothing of gains and losses on a market value basis. Each year's gain or loss is determined as the difference between the actual market return and the expected market return using the assumed rate of investment return.

3. Amortization Method

The unfunded actuarial accrued liability is amortized as a level percentage of future payroll.

4. Changes Since Last Valuation

None.



APPENDIX C SUMMARY OF PLAN PROVISIONS

1. Membership

The Plan is a single-employer defined benefit plan that covers judges of district courts, justices of the supreme court, and the chief water judge.

2. Member Contributions

Members contribute 7% of their compensation. Interest is credited at rates determined by the Board.

Member contributions are made through an "employer pick-up" arrangement which results in deferral of taxes on the contributions.

The Employer contributes 25.81% of each member's compensation.

3. Service Credit

Service used to determine the amount of retirement benefit. One month of service credit is earned for each month where the member is paid for 160 hours. This includes certain transferred and purchased service.

4. Membership Service

Service used to determine eligibility for vesting, retirement or other JRS benefits. One month of membership service is earned for any month employees contributions are made to JRS, regardless of the number of hours worked.

5. Current Salary or Highest Average Compensation

For members hired prior to July 1, 1997 and who have not elected GABA, benefits are calculated using current salary which means the current compensation of the office retired from.

For members hired on or after July 1, 1997, and those who elected GABA, benefits are calculated using highest average compensation which is the average of any 36 consecutive months (or shorter period of total service) of compensation paid to the member. Compensation is specifically defined in law for JRS.



APPENDIX C SUMMARY OF PLAN PROVISIONS

6. Normal Retirement

Eligibility: Age 60 and 5 years of membership service.

Benefit: 31/3% per year of current salary or highest average compensation for the first 15

years of service credit and 1.785% per year of current salary or highest average

compensation for service credit over 15 years.

7. Disability Benefit

Eligibility: Any active member.

Benefit: For duty-related disability, 50% of current salary or highest average

compensation, or if greater the contingent annuitant's benefit.

For regular disability, the actuarial equivalent of the normal retirement benefit.

8. Survivor's Benefit

Eligibility: Active or retired member.

Benefit: For duty-related deaths, the greater of (i) the equivalent of the contingent

annuitant's benefit if applicable, or (ii) the member's service retirement

benefit on the date of death.

For non-duty-related deaths, a refund of the member's accumulated

contributions.

A beneficiary may elect to receive the payment as an annuity that is the

actuarial equivalent of the amount of benefit.

For retired members without a contingent annuitant, a payment will be made to the member's designated beneficiary equal to the accumulated

contributions reduced by any retirement benefits already paid.



APPENDIX C SUMMARY OF PLAN PROVISIONS

9. Vesting

Eligibility: Five years of membership service.

Benefit: Accrued normal retirement benefit, payable when eligible for retirement. In lieu

of a pension, a member may receive a refund of accumulated contributions. Upon receipt of a refund of contributions, a member's vested right to a monthly

benefit shall be forfeited.

10. Withdrawal of Employee Contributions

Eligibility: Terminates service and is not eligible for other benefits.

Benefit: Accumulated employee contributions.

11. Form of Payment

The normal form of payment is a life annuity with a refund of any remaining account balance to a designated beneficiary. (Option 1)

Optional benefits: (i) Option 2, a joint and 100% survivor benefit, (ii) Option 3, a joint and 50% survivor benefit, and (iii) Option 4, a life annuity with a period certain. If a member retires and has selected Option 2 or 3 and the designated beneficiary predeceases the member, the benefit reverts to the higher Option 1 benefit available at retirement.

12. Post Retirement Benefit Increases

For retired members who became active members on and after July 1, 1997 and those who elected to be covered under this provision, and who have been retired at least 12 months, a Guaranteed Annual Benefit Adjustment (GABA) will be made each year equal to 3%.

For retired members who were hired prior to July 1, 1997 and who did not elect GABA, the current salary of an active member in the same position is used to recalculate the monthly benefit.

13. Changes Since Last Valuation

None.

