Report on the Actuarial Valuation of the General Retirement System for Employees of Jefferson County

Prepared as of October 1, 2014



The experience and dedication you deserve

January 13, 2015

Pension Board
The General Retirement System
for Employees of Jefferson County
716 Richard Arrington Jr., Boulevard, N., Suite 430
Birmingham, AL 35203

Ladies and Gentlemen:

Section 2.4(c) of Act No. 2013-415 governing the operation of the General Retirement System for Employees of Jefferson County provides that the actuary shall make valuations of the assets and liabilities of the Retirement System. We submit herewith the report giving the results of the valuation of the System prepared as of October 1, 2014. The report indicates that County contributions at the rate of 6.00% of compensation are sufficient to support the benefits of the System as in effect as of the valuation. In preparing the valuation, the actuary relied on data provided by the System. While not verifying data at the source, the actuary performed tests for consistency and reasonableness.

The System is funded on an actuarial reserve basis. The actuarial assumptions recommended by the actuary and adopted by the Board are both individually and in the aggregate reasonably related to the experience under the System and to reasonable expectations of anticipated experience under the System. The assumptions and methods used for funding purposes meet the parameters set for the disclosures presented in the financial section by Government Accounting Standards Board (GASB) Statement No. 27. The funding objective of the plan is that contribution rates over time will remain level as a percent of payroll. The valuation method used in the most recent valuation is the entry age normal cost method. The normal contribution rate to cover current cost has been determined as a level percent of payroll. Gains and losses are reflected in the unfunded accrued liability which is being amortized by regular contributions as a level percent of payroll.

Effective this fiscal year, the Plan will be required to comply with the financial reporting requirements under GASB statement No. 67. The necessary disclosure information has been provided in a separate supplemental report.

In our opinion the System is operating on an actuarially sound basis and the sufficiency of the retirement funds to provide the benefit called for by the System may be safely anticipated. The normal cost rate of the System continues to be in excess of the current total rate of contributions which will require a sufficient surplus (assets greater than liabilities) in order to ensure ongoing actuarial soundness.

This is to certify that the independent consulting actuary is a member of the American Academy of Actuaries and has experience in performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the retirement system and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the System.



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Future actuarial results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or 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. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

Sincerely yours,

John J. Garrett, ASA, FCA, MAAA Principal and Consulting Actuary

Cathy Turcot Principal and Managing Director

JJG/CGT:dw

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#### REPORT ON THE ACTUARIAL VALUATION OF THE GENERAL RETIREMENT SYSTEM FOR EMPLOYEES OF JEFFERSON COUNTY PREPARED AS OF OCTOBER 1, 2014

#### SECTION I - SUMMARY OF PRINCIPAL RESULTS

 For convenience of reference, the principal results of the valuation and a comparison with the results of the previous valuation are summarized below:

VALUATION DATE		10/01/2014	10/01/2013		
Number of active members		2,112		2,087	
Annual compensation	\$	109,723,029	\$	107,002,185	
Number of retired members and beneficiaries		2,236		2,208	
Annual benefits	\$	56,431,531	\$	54,575,217	
Armual benefits	Ψ	30,431,331	Ψ	54,575,217	
Number of former members entitled					
to deferred vested benefits		111*		104**	
Annual deferred vested benefits	\$	2,284,742	\$	2,085,107	
Assets:					
Actuarial value	\$	1,005,020,061	\$	955,105,311	
Market value		1,077,606,445		1,016,160,154	
	\$	/F2 962 227\	s	(25,870,905)	
Unfunded accrued liability	Ф	(52,862,237)	1 2	(25,670,905)	
Amortization period		28 years		10 years	
		,			
Funded Percent	105.6%		102.8%		
CONTRIBUTION RATES					
Annual required contribution (ARC) of County:		0.700/		0.700/	
Normal		8.76%		8.73%	
Unfunded accrued liability		(2.76)		(2.73)	
Total		6.00%		6.00%	
Total contribution rates:					
Normal		14.76%		14.73%	
Unfunded accrued liability		_(2.76)		(2.73)	
Total		12.00%		12.00%	

In addition, there are 149 former members who had terminated as of the valuation date and who had not received a refund of their contributions (totaling \$2,161,161).

<sup>\*\*</sup> In addition, there are 206 former members who had terminated as of the valuation date and who had not received a refund of their contributions (totaling \$3,367,648).



- Comments on the valuation results as of October 1, 2014 are given in Section V and further discussion of the contribution levels is set out in Section VI.
- Schedule C shows the development of the actuarial value of assets. Schedule E of this report
  outlines the full set of actuarial assumptions and methods employed. There have been no
  changes since the previous valuation.
- Schedule F of this report outlines the main System provisions employed. There have been no changes since the previous valuation.

#### SECTION II - MEMBERSHIP

 The following table shows the number of active members and their annual compensation as of October 1, 2014 on the basis of which the valuation was prepared.

## THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS AS OF OCTOBER 1, 2014

NUMBER	ANNUAL COMPENSATION
2,112	\$109,723,029

 The following table shows the number and annual retirement allowances payable to retired members and beneficiaries as of the valuation date.



## THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF RETIRED MEMBERS AND BENEFICIARIES AS OF OCTOBER 1, 2014

GROUP	NUMBER	ANNUAL RETIREMENT BENEFITS
Service Retirements Beneficiaries of Deceased Members Disability Retirements	1,950 210 <u>76</u>	\$ 52,500,433 2,807,058 1,124,040
Total	2,236	\$ 56,431,531

In addition, there are 111 former members entitled to deferred vested retirement benefits totaling \$2,284,742 and 149 former members who had terminated as of the valuation date but who had not received a refund of their contributions.

3. Table 1 of Schedule G gives a distribution by age and service groups of the number and average pay of active members included in the valuation. Tables 2, 3, 4 and 5 give the number and annual benefits of retired members and beneficiaries included in the valuation, distributed by age.

#### SECTION III - ACTUARIAL COST METHOD

The valuation is prepared on the projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future (currently 7.00%), of each member's expected benefit payable at retirement or death is determined, based on his age, service, sex and compensation. The calculations take into account the probability of a member's death or termination of employment prior to becoming eligible for a benefit, as well as the probability of his terminating with a service, disability or survivor's benefit. Future salary increases are also anticipated. The present value of the expected benefits payable on account of the active members is added to the present value of the expected future payments to retired members and beneficiaries to obtain the present value of all expected benefits payable from the System on account of the present group of members and beneficiaries.



- 2. The contributions required to support the benefits of the System are determined following a level funding approach, and consist of a normal contribution and an accrued liability contribution.
- 3. The normal contribution is determined using the "entry age normal" method. Using this method, a calculation is made to determine the uniform and constant percentage rate of County contribution which, if applied to the compensation of each member during the entire period of his anticipated covered service, would be required in addition to the contributions of the member to meet the cost of all benefits payable on his behalf.
- 4. The present value of future unfunded accrued liability contributions is determined by subtracting the present value of prospective County normal contributions (currently 8.76%) and member contributions (currently 6.00%), together with the current assets held, from the present value of expected benefits to be paid from the System.

#### SECTION IV - ASSETS

The amount of assets taken into account in this valuation was based on information provided by the auditors. As of October 1, 2014, the market value of assets amounted to \$1,077,606,445. Schedule B shows a reconciliation of market value of assets for the two years prior to the valuation date. As of October 1, 2014, the market related actuarial value of assets used for valuation purposes was \$1,005,020,061, as developed in Schedule C.

#### SECTION V - COMMENTS ON VALUATION

- Schedule D of this report contains the valuation balance sheet which shows the present and prospective assets and liabilities of the System as of October 1, 2014.
- 2. The valuation balance sheet shows that the System has total prospective liabilities of \$1,071,930,638. Of this amount, \$584,311,770 is for the prospective benefits payable on account of present retired members, beneficiaries of deceased members and former members entitled to deferred vested benefits or a refund of contributions, and \$487,618,868 is for the prospective benefits payable on account of present active members. Against these liabilities, the System has total present assets of \$1,005,020,061 as of October 1, 2014. The difference of \$66,910,577



between the total liabilities and the total present assets represents the present value of future contributions.

- 3. The contributions to the System consist of normal contributions and accrued liability contributions. The valuation indicates that normal contributions at the rate of 14.76% of payroll are sufficient to pay the normal costs of the System. Of this amount, 6.00% is paid by the members and the remaining 8.76% is required by the County.
- 4. Prospective normal contributions at the rate of 14.76% have a present value of \$119,772,814. When this amount is subtracted from \$66,910,577, which is the present value of total future contributions, there remains \$(52,862,237) as the amount of unfunded accrued liability (UAL) contributions. The surplus UAL is expected to be fully amortized within 28 years at a rate of (2.76)% of payroll. The development of the unfunded accrued liability is shown in Schedule A. The funded ratio of the System is the ratio of assets to the actuarial accrued liability. This ratio as of October 1, 2014, based on actuarial value of assets which recognizes gains and losses over a five year period, is 105.6%.
- 5. It is important to note that since the normal cost contribution rate of 14.76% for the annual benefits earned is greater than the total rate of contributions of 12.00% to the System, an objective of the System should be to maintain a surplus UAL that would be expected to never be fully amortized (infinite amortization period). Attaining and maintaining this objective would ensure the actuarial soundness of System's funding for both current and future retirees.
- 6. The UAL based on the current market value of assets, assuming the immediate recognition of all deferred asset gains and losses, is \$(125,448,621). On this basis, the funded ratio is 113.2%.



#### SECTION VI - CONTRIBUTIONS PAYABLE BY COUNTY

It is recommended on the basis of the present valuation that the County make contributions to the System according to the rates shown in the following table:

CONTRIBUTION	PERCENTAGE OF MEMBERS' COMPENSATION
Normal	8.76%
Unfunded accrued liability	<u>(2.76)</u>
Total	6.00%



#### SECTION VII - ACCOUNTING INFORMATION

Governmental Accounting Standards Board has issued Statement No. 67 which replaces Statement 25 for plan years beginning after June 15, 2013. The information required under GASB 67 was issued in a separate report. The following is provided for informational purposes and for disclosure in the financial statements of the employer under GASB 27.

1. The following is a distribution of the number of employees by type of membership.

## NUMBER OF ACTIVE AND RETIRED MEMBERS AS OF OCTOBER 1, 2014

GROUP	NUMBER
Retirees and beneficiaries currently receiving benefits	2,236
Terminated members entitled to benefits but not yet receiving them	260
Active members	<u>2,112</u>
Total	4,608

2. The schedule of funding progress is shown below.

#### SCHEDULE OF FUNDING PROGRESS\* Dollar Amounts in Thousands

Actuarial Valuation <u>Date</u>	Actuarial Value of Assets <u>( a )</u>	Actuarial Accrued Liability (AAL) Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b-a)/c)
10/01/2009	\$973,523,115	\$909,778,906	\$(63,744,209)	107.0%	\$158,254,172	(40.3)%
10/01/2010*	965,689,832	885,063,115	(80,626,717)	109.1	152,923,480	(52.7)
10/01/2011	949,368,266	899,515,895	(49,852,371)	105.5	138,971,377	(35.9)
10/01/2012	931,092,938	913,822,368	(17,270,570)	101.9	118,895,660	(14.5)
10/01/2013	955,105,311	929,234,406	(25,870,905)	102.8	107,002,185	(24.2)
10/01/2014	1,005,020,061	952,157,824	(52,862,237)	105.6	109,723,029	(48.2)

<sup>\*</sup> Reflects changes in actuarial assumptions



The information presented above was determined as part of the actuarial valuation at October 1,
 2014. Additional information as of the latest actuarial valuation follows.

Valuation date	10/01/2014
Actuarial cost method	Entry age
Amortization method	Level percent open
Remaining amortization period	28 years
Asset valuation method	5-year market related value
Actuarial assumptions:	
Investment rate of return*	7.00%
Projected salary increases*	4.25 – 7.25%
Cost-of-living adjustments	None
*Includes inflation at	3.25%

#### TREND INFORMATION

Year Ending	Annual Pension Cost (APC)	Percentage of APC Contributed	Net Pension Obligation (NPO)
September 30, 2012	\$7,743,653	100%	\$0
September 30, 2013	6,893,256	100	0
September 30, 2014	6,587,691	100	0



#### SECTION VIII - EXPERIENCE

- The last experience investigation was prepared for the five-year period ending September 30, 2009, and based on the results of the investigation, various assumptions and methods were adopted by the Board on April 28, 2010. The next experience investigation will be prepared for the period October 1, 2009 through September 30, 2014.
- The following table shows the estimated gain or loss from various factors that resulted in a decrease of 26,991,331 in the unfunded accrued liability from (25,870,905) to (52,862,237) during the fiscal year ending September 30, 2014.

## ANALYSIS OF THE INCREASE IN UNFUNDED ACCRUED LIABILITY (in thousands of dollars)

ITEM	AMOUNT OF INCREASE/ (DECREASE)
Interest (7.00) added to previous unfunded accrued liability	\$ (1,811.0)
Accrued liability contribution	2,451.8
Experience:	
Valuation asset growth	(28,866.4)
Pensioners' mortality	(2,366.9)
Turnover and retirements	5,982.5
New Entrants	791.0
Salary increases	(3,036.3)
Method changes	0.0
Amendments (COLAs)	0.0
Assumption changes	0.0
Miscellaneous changes	<u>(136.1)</u>
Total	(26,991.3)



#### SCHEDULE A

## DEVELOPMENT OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY AS OF OCTOBER 1, 2014

(1)	Preser	nt Value of Future Benefits:		
	(a)	Present Active Members	\$	487,618,868
	(b)	Present Retired Members, Beneficiaries and Former Members Entitled to Deferred Vested Benefits or Refunds of Contributions		584,311,770
	(c)	Total	\$ 1	1,071,930,638
(2)	Preser	nt Value of Future County and Member Normal Contributions		119,772,814
(3)	Actuar	ial Accrued Liabilities [1(c) – (2)]	\$	952,157,824
(4)	Actuar	ial Value of Assets	_	1,005,020,061
(5)	Unfund	ded Actuarial Accrued Liabilities (UAAL) [(3) – (4)]	\$	(52,862,237)
(6)	Amorti	zation of UAAL	\$	(3,028,356)
(7)	Contril	oution Rate as a % of Payroll		
	(a) (b)	Normal Cost UAAL		14.76% (2.76)

Total

(c)

12.00%



## SCHEDULE B RECONCILIATION OF MARKET VALUE OF ASSETS

		00	ctober 1, 2014	0	ctober 1, 2013
Market Value	e of Assets as of October 1 of Previous Year	\$1	1,016,160,154	\$	959,308,064
Expenditures					
-	Benefit Payments	\$	(55,458,219)	\$	(52,997,825)
-	Refunds of Employee Contributions		(1,706,950)		(4,862,281)
-	Administrative Expenses		(931,279)	_	(951,726)
-	Total	\$	(58,096,448)	\$	(58,909,457)
Contributions	5				
-	Employer	\$	6,587,691	\$	6,893,256
	Employee		6,562,069		6,851,415
-	Other		770,778	_	327,362
-	Total	\$	13,920,538	\$	14,072,033
Investment I	ncome	\$	105,706,174	\$	101,689,514
Transfer to 415 Account		\$	(83,973)	\$	(97,625)
Market Value of Assets as of October 1 of Current Year		\$1	1,077,606,445	\$	1,016,160,154
Investment Rate of Return			10.63%		10.84%



#### SCHEDULE C

## DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS AS OF OCTOBER 1, 2014

(1)	Actuar	\$	955,105,311	
(2)	Market	\$ 1	,077,606,445	
(3)	Market	t Value Beginning of Year	\$ 1	,016,160,154
(4)	Cash F			
( - /	a.	Contributions	\$	13,920,538
	b.	Benefit Payments and Administrative Expense	•	(58,096,448)
	C.	Transfer to 415 Account		(83,973)
	d.	Investment Expenses		(3,763,440)
	e.	Net	\$	(48,023,323)
<i>(E)</i>	Investor	mont Income		
(5)		ment Income	¢	100 460 614
	a.	Market total $[(2) - (3) - (4)e]$	\$	109,469,614
	b.	Assumed Rate		7.00%
	C.	Amount for Immediate Recognition [(3) x (5)b] + [((4)a + (4)b + (4)c) * (5)b * 0.5] – (4)d	\$	73,345,555
	d.	Amount for Phased-In Recognition [(5)a – (5)c]	\$	36,124,059
(6)	Phase	d-In Recognition of Investment Income		
	a.	Current Year [0.20 * (5)d]	\$	7,224,812
	b.	First Prior Year		7,221,452
	C.	Second Prior Year		16,200,724
	d.	Third Prior Year		(10,378,671)
	e.	Fourth Prior Year		4,324,201
	f.	Total Recognized Investment Gain	\$	24,592,518
(7)	Actuar	ial Value End of Year		
		4)e + (5)c + (6)f]	\$ 1	1,005,020,061
(8)	Differe	nce Between Market & Actuarial Values [(2) – (7)]	\$	72,586,384



#### SCHEDULE D

# VALUATION BALANCE SHEET SHOWING THE PRESENT AND PROSPECTIVE ASSETS AND LIABILITIES OF THE GENERAL RETIREMENT SYSTEM FOR EMPLOYEES OF JEFFERSON COUNTY PREPARED AS OF OCTOBER 1, 2014

ASSETS		
Present Assets of the System		\$1,005,020,061
Present Value of Prospective Contributions:		
County and Members Normal Contributions	\$ 119,772,814	
Unfunded Accrued Liability Contributions	(52,862,237)	
Total Prospective Contributions		66,910,577
Total Assets		\$1,071,930,638
LIABILITIES		
Present Value of Benefits Payable on Account of Retired Members, Beneficiaries and Former Members Entitled to Deferred Vested Benefits or Refunds of Contributions		\$ 584,311,770
Present Value of Prospective Benefits payable on Account of Present Active Members		487,618,868
Total Liabilities		\$1,071,930,638



#### SCHEDULE E

#### **OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS**

The assumptions and methods used in the valuation are effective beginning October 1, 2010 and were selected based on the experience investigation for the five year period ending September 30, 2009 adopted by the Board on April 28, 2010.

INVESTMENT RATE OF RETURN: 7.00% per annum, compounded annually.

SALARY INCREASES: Representative values of the assumed annual rates of future salary increases are as follows and include inflation at 3.25% per annum:

Annual Rate of Salary Increase						
Years of Service	<u>Rate</u>					
0	7.25%					
2	7.00					
4	6.75					
6	6.25					
8	5.00					
10+	4.25					

SEPARATIONS FROM ACTIVE SERVICE: Mortality rates are according to the RP-2000 Employee Mortality Table. Representative values of the assumed annual rates of death, disability, withdrawal and service retirement are as follows:

	Annual Rate of					
<u>Age</u>	<u>Death – Male</u>	<u>Death – Female</u>	Disability*			
20	0.03%	0.02%	0.04%			
25	0.04	0.02	0.04			
30	0.04	0.03	0.04			
35	0.08	0.05	0.08			
40	0.11	0.07	0.08			
45	0.15	0.11	0.12			
50	0.21	0.17	0.20			
55	0.30	0.25	0.24			
60	0.49	0.39	0.28			
65	0.76	0.58				
69	0.95	0.73				

<sup>\*10%</sup> of disabilities are assumed to be due to service related causes and 90% to non-service related causes.



Annual Rate of Service Withdrawal					
Years of Service	Rate				
0	13.0%				
2	11.0				
4	8.0				
6	6.0				
8	3.5				
10+	3.0				

Annual Rate of	Annual Rate of Service Retirement					
<u>Age</u>	<u>Rate</u>					
50	5.0%					
55	15.0					
60	30.0					
62	40.0					
65	45.0					
70	100.0					

75% are assumed to retire when first eligible for 30 year unreduced service retirement and for each year with 31 or more years of service.

DEATHS AFTER RETIREMENT: According to the RP-2000 Combined Mortality Table with Projection Scale AA, set forward 1 year for males for service retirements. Special rates are used for the period after disability retirement. Representative values of the assumed annual rates of death after retirement for 2013 are as follows:

		Annual Rate of Death After					
	<u>Service</u>	Retirement	<u>Disability</u>	Retirement			
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>			
40	0.1%	0.1%	2.3%	1.7%			
50	0.2	0.1	3.3	2.5			
55	0.3	0.2	4.0	3.0			
60	0.6	0.5	5.0	3.8			
65	1.2	0.9	6.2	4.7			
70	2.0	1.6	6.8	5.1			
75	3.5	2.5	8.6	6.5			
80	6.3	4.2	11.4	8.6			
85	11.2	7.2	15.2	11.4			
90	19.0	12.7	20.3	15.2			
95	27.7	19.0	29.5	22.1			



LOADING: The average monthly compensation was increased 4.50% to allow for the practice of including a portion of unused vacation pay in the benefit calculations.

PERCENT MARRIED: 95% of active members are assumed to be married, with husbands three years older than their wives.

ACTUARIAL COST METHOD: Entry age normal. Gains and losses are reflected in the unfunded accrued liability.

ASSET VALUATION METHOD: Actuarial value as developed in Schedule C. The actuarial value of assets recognizes a portion of the difference between the market value of assets and the expected value of assets, based on the assumed valuation rate of return. The amount recognized each year is 20% of the difference between market value and expected actuarial value.



#### SCHEDULE F

### SUMMARY OF MAIN PROVISIONS OF THE SYSTEM AS INTERPRETED FOR VALUATION PURPOSES

The following summary gives the main membership, benefit and contribution provisions of the System as interpreted in preparing the actuarial valuation. "Average monthly compensation" means the average earnable compensation of a member during the highest thirty-six consecutive months of service. "Paid membership service" is service during which the member made contributions to either this System or the previous systems.

#### **MEMBERSHIP**

All regular employees and officers of Jefferson County who were members of the previous retirement systems became members of this System as of September 1, 1965. All other employees and officers of the County as of September 1, 1965 could elect to join the System. Any person becoming an employee after September 1, 1965 whose employment is subject to the Civil Service System is required to join. Employees whose employment is not subject to the Civil Service System or those who are officers may elect to join.

#### **BENEFITS**

Superannuation Retirement

Condition for Retirement

Age 60 and completion of 10 years of paid membership service, or 30 years of paid membership service, or age 55 with 30 years of service of which 20 years must be paid membership service.

Amount of Benefit

(a) The monthly pension is equal to 2-1/2% of the member's average monthly compensation multiplied by the number of years of his paid membership service, not in excess of 30 years; plus



(b) 5/8% of average monthly compensation, multiplied by the number of years of his unpaid service.

No member shall receive a benefit in excess of 75% of average monthly compensation.

#### Early Retirement

Regular Early Retirement Benefit

Any member who has completed 30 years of service, including 10 years of paid membership service, may elect to receive a Regular Early Retirement Benefit.

The Regular Early Retirement Benefit is determined by multiplying the pension based on service and average monthly salary at the date of early retirement, by the percentage shown in the following table, according to the member's age on the birthday preceding retirement.

<u>Age</u>	<u>Percentage</u>
59	93%
58	87%
57	82%
56	77%
55	72%
54	68%
53	64%
52	60%
51	57%
50	54%
49	51%
48	48%

25-Year Early Retirement Benefit

Any member who has completed at least 25 years of paid membership service may elect to receive a 25-Year Early Retirement Benefit.

The 25-Year Early Retirement Benefit is determined by multiplying the pension based on service and average monthly salary at the date of early retirement by 7% per year for each year less than 30 years of paid membership.

#### Non-Service Connected Disability

Condition for Retirement

Any member who becomes disabled for reasons not connected with service after 10 or more years of paid membership service is entitled to receive a disability pension (full or partial).

Amount of Benefit

The monthly disability pension is computed in the same manner as the superannuation retirement benefit,



reduced for early commencement by the percentage shown in the following table. The early retirement factor is based on the number of years until the member would have been eligible for unreduced retirement benefits assuming continued employment.

Years <u>Early</u>	<u>Percentage</u>	Years <u>Early</u>	<u>Percentage</u>
1	93%	7	64%
2	87	8	60
3	82	9	57
4	77	10	54
5	72	11 or more	50
6	68		

Service Connected Disability

Condition for Retirement

Amount of Benefit

**Deferred Retirement** 

Condition for Retirement

Any member who becomes incapacitated for further performance of duty by reason of personal injury received as the result of an accident arising out of and in the course of employment is entitled to receive monthly disability benefits.

The monthly disability pension is equal to 60% of the part of the member's monthly salary subject to deductions for pension purposes at the commencement of disability, reduced by workers compensation benefits.

- Any member whose service is involuntarily (a) terminated before eligibility for voluntary retirement who has 18 years of service, including 10 years of paid membership service, is eligible to receive a deferred pension payable either at age 60 or on the date the member would have completed 30 years of service if the member had remained employed by the County, provided the member makes contributions to the system between the termination date and retirement date equal to those both the member and the County would have made during that time on the basis of the member's salary subject deductions for pension purposes at termination date.
- (b) Any member whose service is involuntarily terminated before eligibility for voluntary retirement who has 20 years of service, including at least 10 years of paid membership service, is eligible to receive a pension, commencing immediately, if the member has attained age 55 at retirement or a deferred pension commencing at age 55 if the member is



less than age 55 at retirement. No contributions are required of the member after involuntary retirement.

(c) Any member who has completed 10 years of paid membership service and who upon separation from service, whether voluntary or involuntary, is not eligible to receive a superannuation retirement benefit, is eligible to receive a deferred pension payable at age 60.

The monthly pension described under (a) above is payable upon the earlier of (1) the date the member reaches age 60, or (2) the date on which the member would have completed 30 years of service had the member continued employment, and is calculated using the Superannuation Retirement Benefit formula, which is reduced in the same manner as an Early Retirement Benefit if the member has not reached age 60 at the time payment commences.

The monthly pension described under (b) above is payable upon retirement if the member has reached age 55, or, if the member has not reached age 55, payment is delayed until the member attains age 55, and is calculated in accordance with the formula used for a Superannuation Retirement Benefit.

The monthly pension described under (c) above Is payable when the member reaches age 60, and is calculated by multiplying the Superannuation Retirement Benefit that the member would have been entitled to receive had the member been age 60 when service terminated by the applicable percentage below:

Years of Paid Membership Time	<u>Percentage</u>
10	50%
11	60
12	70
13	80
14	90
15	100

Instead of receiving a deferred pension, the member may elect to receive a refund of the member's contributions with interest less one-half of any disability benefits paid.

Amount of Benefit



Return of Contributions

Upon Termination of Service

Upon termination of service for reasons other than death, before meeting the eligibility requirements for a deferred retirement benefit, a member is entitled to the return of the member's contributions less one-half of any disability benefits paid.

Death of Member Before Eligibility for a Deferred Retirement Benefit

Upon death before retirement and before the member is eligible for a deferred retirement benefit, the member's contributions without interest, less any disability benefit payments, are paid to the member's beneficiary, spouse, or legal representative.

Death of Member After Eligibility For Deferred Retirement

Condition for Benefit

Upon death in active service of a member who has completed 10 years of paid membership service, an allowance is payable to the member's surviving spouse, or if an unmarried member so elects, to the member's designated beneficiary.

Amount of Benefit

The pre-retirement survivorship benefit is 100% of the reduced retirement pension the member would have received had retirement occurred on the day of death.

Upon actual retirement, an unmarried member who had elected the pre-retirement joint and survivorship benefit will have his benefit reduced by an amount which is of equivalent actuarial value to the actuarial cost of the coverage for the pre-retirement joint survivorship benefit under such election.

A refund of contributions plus interest is made in lieu of a survivor's benefit if the surviving spouse or dependent so elects.

**Optional Benefits** 

A member may elect to have the superannuation, early retirement or deferred retirement benefit otherwise payable converted to a smaller pension payable during the member's lifetime with the provision that, upon the member's death after pension payments commence, a specified part of such reduced pension will be continued to the member's designated beneficiary. In addition, a member may elect to have the member's benefit converted to a further reduced pension payable as above but with the additional provision that, if the member's designated beneficiary predeceases the member, benefit payments will revert to the unreduced amount and will be payable until the member's death.



Increases to Retired Members and Beneficiaries

The following increases to pensions in pay status have been made:

3% per year (simple interest) with the calculation period beginning on the later of the date of retirement and October 1, 1977, and ending on September 30, 1982. (The maximum increase was 15%.)

3% per year (simple interest) with the calculation period beginning on the later of the date of retirement and October 1, 1982, and ending on September 30, 1984. (The maximum increase was 6%.)

2% per year (simple interest) with the calculation period beginning on the later of the date of retirement and October 1, 1984, and ending on September 30, 1986. (The maximum increase was 4%.)

2% per year (simple interest) with the calculation period beginning on the later of the date of retirement and October 1, 1986, and ending on September 30, 1992. (The maximum increase was 12%.)

2% per year (simple interest) retroactive to October 1, 1992 with a maximum increase of 12%.

2% per year (simple interest) retroactive to October 1, 1998 with a maximum increase of 6%.

1% per year (simple interest) retroactive to October 1, 2001.

2% per year retroactive to October 1, 2004, with the calculation period beginning on the later of the date of retirement and October 1, 2006, and ending September 30, 2007. (The maximum increase was 4%.)

#### CONTRIBUTIONS

By Members

Each member contributes 6% of compensation.

A member who has accrued the maximum retirement benefit of 75% of basic average salary may elect to terminate contributions.

By County

The County pays an amount equal to member's contributions.



#### SCHEDULE G

#### TABLE 1

#### AGE - SERVICE TABLE

Distribution of Active Members as of October 1, 2014 by Age and Service Groups

Attained Age				Co	mpleted Ye	ars of Serv	ice			
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Over	Total
Under 25 Avg Pay	27 31,510	9 35,618								36 32,537
25 to 29 Avg Pay	29 33,687	17 41,700	14 39,786	1 36,580						61 37,367
30 to 34 Avg Pay	30 43,695	24 40,385	68 45,680	26 42,840	4 41,946					152 43,868
35 to 39 Avg Pay	10 41,896	22 42,485	67 47,262	83 54,889	47 49,000	1 42,899				230 49,660
40 to 44 Avg Pay	16 45,792	27 40,644	52 49,534	77 56,062	79 53,629	41 54,104	2 48,251			294 51,952
45 to 49 Avg Pay	10 41,108	22 47,377	49 47,319	58 53,240	75 60,006	79 56,585	31 56,972			324 54,311
50 to 54 Avg Pay	12 51,571	28 49,147	77 49,319	50 55,492	71 52,814	58 56,917	71 60,650	5 63,098		372 54,408
55 to 59 Avg Pay	10 39,822	21 54,417	60 49,803	67 55,149	63 53,143	72 52,079	68 57,623	8 75,026	1 88,470	370 53,862
60 to 64 Avg Pay	1 34,306	12 60,333	48 45,279	33 54,344	53 54,466	32 67,701	22 52,093	7 77,441	4 76,489	212 55,529
65 to 69 Avg Pay		2 55,216	12 41,825	10 58,451	7 52,620	5 50,767	4 67,802	2 79,309	2 58,206	44 53,756
70 & Over Avg Pay			3 48,028	3 41,178	4 60,764	3 71,408	1 95,294	1 92,232	2 46,525	17 59,146
Total Count Avg Pay	145 39,673	184 45,795	450 47,399	408 54,122	403 54,104	291 56,415	199 58,290	23 74,289	9 67,099	2,112 51,952

Average Age 48.36 Average Service 13.74



TABLE 2

NUMBER OF RETIRED MEMBERS
AND THEIR BENEFITS BY AGE

#### SERVICE RETIREMENTS

Attained Age	Number of Members	<u>Total Annual Benefits</u>	Average Annual Benefit
50 and Under	8	\$ 255,082	\$ 31,885
51 – 55	54	2,280,438	42,230
56 – 60	198	7,211,110	36,420
61 – 65	497	15,635,576	31,460
66 – 70	443	11,943,272	26,960
71 – 75	325	7,593,988	23,366
76 – 80	194	4,010,989	20,675
Over 80	<u>231</u>	<u>3,569,978</u>	<u>15,454</u>
Total	1,950	\$ 52,500,433	\$ 26,923

TABLE 3

#### NUMBER OF RETIRED MEMBERS AND THEIR BENEFITS BY AGE

#### **DISABILITY RETIREMENTS**

Attained Age	Number of Members	<u>Total Annual Benefits</u>	Average Annual Benefit	
50 and Under	3	\$ 65,341	\$ 21,780	
51 – 55	8	116,383	14,548	
56 – 60	23	391,684	17,030	
61 – 65	16	248,926	15,558	
Over 65	<u>26</u>	<u>301,704</u>	<u>11,604</u>	
Total	76	\$ 1,124,040	\$ 14,790	



# TABLE 4 NUMBER OF RETIRED MEMBERS AND THEIR BENEFITS BY AGE

#### BENEFICIARIES OF DECEASED MEMBERS

Attained Age	Number of Members	Total Annual Benefits	Average Annual Benefit	
50 and Under	7	\$ 58,995	\$ 8,428	
51 – 55	7	113,583	16,226	
56 – 60	16	277,439	17,340	
61 – 65	14	297,271	21,234	
66 – 70	32	587,471	18,358	
71 – 75	40	483,237	12,081	
76 – 80	43	536,713	12,482	
Over 80	<u>51</u>	<u>452,345</u>	<u>8,870</u>	
Total	210	\$ 2,807,058	\$ 13,367	

TABLE 5

NUMBER OF DEFERRED FORMER MEMBERS
AND THEIR BENEFITS BY AGE

Attained Age	Number of Members	Total Annual Benefits	Average Annual Benefit	
50 and Under	35	\$ 709,552	\$ 20,	273
51 – 55	39	806,941	20,	691
56 – 60	<u>37</u>	<u>768,249</u>	<u>20,</u>	<u>763</u>
Total	111	\$ 2,284,742	\$ 20,	583