

Oklahoma Firefighters Pension and Retirement System

Actuarial Valuation Report as of July 1, 2014



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Purpose

This report has been prepared by Buck Consultants,LLC, for the Oklahoma Firefighters Retirement Board to:

- Present the results of a valuation of the Oklahoma Firefighters Pension and Retirement System as of July 1, 2014;
- Review experience under the Plan for the year ended June 30, 2014; and
- Provide reporting and disclosure information for auditors' reports, governmental agencies and other interested parties.

The main financial highlights are:

 The funded status of the Plan has increased since the prior valuation as indicated by the table below:

Funded Status (\$000,000)	Ju	ıly 1, 2014	Ju	ly 1, 2013
Accrued Liability	\$	3,225.5	\$	3,081.9
Actuarial Value of Assets	\$	2,001.8	\$	1,811.7
Unfunded Accrued Liability	\$	1,223.7	\$	1,270.2
Funded Ratio		62.1%		58.8%

• The total required contribution for the System decreased by 9.6% and the required State contribution decreased by 17.4%. The decrease was due mainly to changing the funding policy to amortize the Unfunded Accrued Liability over 30 years from July 1, 2014. The prior policy was to amortize the Unfunded Accrued Liability over 30 years from July 1, 2003.

Contribution Summary (\$000,000)	July 1, 2014	Ju	ıly 1, 2013
Total Required Contribution	\$ 166.4	\$	184.1
Expected Employee Contributions	(23.9))	(22.0)
Expected Municipality Contributions	(38.1))	(35.6)
Required State Contribution	\$ 104.4	\$	126.5
As a Percentage of Total Payroll	39.39	%	49.8%

Summary of Principal Valuation Results

A summary of principal results from the current valuation and the prior valuation follows. Any changes in actuarial assumptions, methods or Plan provisions between the two valuations are described in the section titled "Effects of Changes."

	Actuarial Valuation as of			
	July 1, 2014 July 1, 2013			
Summary of Costs				
Total Contribution Requirement (1)	\$ 166,394,630	\$ 184,112,744		
Total Contributions Received in Prior Year ⁽²⁾	\$ 137,706,693	\$ 130,788,115		

Funded Status		
Actuarial Accrued Liability	\$ 3,225,452,386	\$ 3,081,898,361
Actuarial Value of Assets	\$ 2,001,779,620	\$ 1,811,650,751
Unfunded Actuarial Accrued Liability	\$ 1,223,672,766	\$ 1,270,247,610

Market Value of Assets and Additional Liabilities							
Market Value of Assets \$ 2,197,104,543 \$ 1,899,098,749							
Present Value of Projected Plan Benefits	\$ 3,882,376,325	\$ 3,706,924,813					

Summary of Data		
Number of Vested Members in Valuation		
Active Paid Members	2,280	2,270
Active Volunteer Members	2,666	2,658
Deferred Option Plan Members	77	84
Members with Deferred Benefits	1,390	1,356
Members Receiving Benefits	6,167	6,064
Beneficiaries	2,022	1,989
Disabled Members	1,831	1,815
Total Vested Members	16,433	16,236
Number of Non-Vested Members in Valuation		
Active Paid Members	1,886	1,866
Active Volunteer Members	<u>5,604</u>	5,598
Total Non-Vested Members	7,490	7,464
Total Members	23,923	23,700

Active Member Statistics		
Total Annual Compensation (Paid Members) ⁽³⁾	\$ 265,551,993	\$ 253,955,389
Average Compensation (Paid Members)(3)	\$ 63,743	\$ 61,401
Average Age	38.6	38.5
Average Service	9.4	9.3

⁽¹⁾ Excluding Deferred Option Plan Contributions.

For the fiscal year beginning July 1, 2006, the System is scheduled to receive 34% of collected statewide insurance premium taxes; beginning November 1, 2013, the System is scheduled to receive 36% of collected state-wide insurance premium taxes.

⁽³⁾ Compensation is projected one year based on the salary increase assumptions

Effects of Changes

Legislative Changes

SB 2024 changed the amortization period from 30 years beginning July 1, 2003, to 30 years beginning July 1, 2014. The result was a decrease in the Total Required Contribution of about \$18.6 million.

Changes in Actuarial Assumptions

There have been no changes to assumptions from those used in the prior valuation. See Section 3.2 for a description of the assumptions and methods used for the July 1, 2014 valuation.

Changes in Actuarial Funding Methods

There were no changes in actuarial funding methods from the previous valuation.

As noted last year, HB 2078 increased the amount of gross salary contributed by paid firefighters from 8% to 9%, effective November 1, 2013. In addition, the bill increased the amount of gross salary contributed by municipalities and fire districts from 13% to 14%, effective November 1, 2013. These increases were reflected in the calculation of the Required State Contribution.

The bill also increased the portion of statewide insurance premium tax allocated to the System from 34% to 36%, effective November 1, 2013.

Changes in System Benefits

There have been no changes in plan provisions or system benefits with an actuarial impact from those reflected in the previous valuation. As noted last year, HB 2078 and SB 1101 made certain changes to the benefits of members hired on or after November 1, 2013, including the following:

- Increased the eligibility to retire to age 50 with 22 years of service
- · Increased the eligibility for a vested benefit to 11 years
- Changed the interest earned on DROP accounts to be the rate earned by System assets, less one percentage point, once the member has left active DROP

These benefit provisions were reflected for members hired on or after November 1, 2013, in this valuation. See Section 4.3 for a description of the plan provisions used for the July 1, 2014 valuation.

Actuarial experience during the plan year

The actuarial gain/(loss) is shown in the table below:

	Total (000s)	
Liability Gain/(Loss)	\$	(28,947)
Asset Gain/(Loss)		93,236
Net Actuarial Gain/(Loss)	\$	64,289

Deferred Option Plan

The Oklahoma Firefighters Deferred Option Plan (DROP) allows members eligible for a Normal Retirement Benefit to defer the receipt of retirement benefits while continuing employment. Participation in the Deferred Option Plan is limited to five years. During this time, the members' contributions stop, but the employer contributes half of the regular contribution on base salary to the Firefighters Pension and Retirement System and the other half to the members' accounts in the Deferred Option Plan equal to the retirement benefit accrued under the Plan. After the period of active participation, members must separate from active service as a firefighter and retire. After retirement, however, members may remain as inactive members in this plan and defer receipt of the account balance until payments are required under the minimum distribution rules. The DROP was modified effective July 1, 2003, to allow eligible members to retroactively elect to enter DROP as of a back-drop-date upon termination. The monthly retirement benefits and member contributions that would have been payable had the member elected to enter DROP are credited to the employee's account in the DROP.

For members hired before November 1, 2013, the Deferred Option Plan accounts are credited with interest at a rate of 2.0% less than the total fund growth, with a guaranteed minimum interest rate equal to the valuation interest rate of 7.5%. For members hired on or after November 1, 2013, the Deferred Option Plan accounts are credited with the same rate as above while in active DROP and 1.0% less than the total fund growth after they leave active DROP. The actual rate credited for the fiscal year ended June 30, 2014 was 15.89%.

Statistics regarding the number of Deferred Option Plan members and total account balances are shown in the table below:

DROP Statistics		July 1, 2014		July 1, 2013	
Number of Members					
Active		77		84	
Inactive		1,958		1,852	
Total		2,035		1,936	
Account Balances	\$	548,217,780	\$	472,994,792	
Annual Retirement Benefits of Active Members	\$	3,042,084	\$	3,030,612	

GASB 67 and 68

Plan sponsors will be transitioning to new financial statement disclosure requirements which are set forth in GASB Statement 67 (for plans' financial statements) and GASB Statement 68 (for plan sponsors' financial statements) over this year and next year.

Information calculated in accordance with GASB Statement 67 will be provided separately for this plan in a supplement to this report.

Actuarial Certification

This valuation is based on employee and financial data which were provided by the Oklahoma Firefighters Pension and Retirement System and the independent auditor, respectively, and which are summarized in this report.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the economic and demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. An analysis of the potential range of such future differences is beyond the scope of this report.

Use of this report for any other purposes or by anyone other than the Oklahoma Firefighters Pension and Retirement System and its auditors may not be appropriate and may result in mistaken conclusions because of failure to understand applicable assumptions, methods, or inapplicability of the report for that purpose. The attached pages should not be provided without a copy of this cover letter. No one may make any representations or warranties based on any statements or conclusions contained in this report without Buck Consultants' prior written consent.

We are Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all applicable Actuarial Standards of Practice, and we are available to answer questions about it.

David Kent, FSA, EA, MAAA Director, Consulting Actuary

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Section 1 Funding Results

Section 1.1 Calculation of Contribution Requirement

Section 1.2 Liability Detail

Section 1.3 Unfunded Actuarial Accrued Liability

Section 1.4 Actuarial Gain/(Loss)

Section 1.5 Contributions

Section 1.6 Ten-Year Projected Cash Flow

1.1 Calculation of Contribution Requirement

		Actuarial Valuation as of				
		July 1, 2		July 1, 2		
	Summary of Contribution Requirements	Amount	% of Active Covered Comp.	Amount	% of Active Covered Comp.	
1.	Annual Compensation					
	Members included in Valuation (Covered Compensation)	\$ 265,551,993		\$ 253,955,389		
	b. Deferred Option Plan Members	6,020,346		5,882,776		
	c. Total Compensation	271,572,339		259,838,165		
2.	Total Normal Cost Mid-year	\$ 63,446,631	23.9%	\$ 60,948,200	24.0%	
3.	Unfunded Actuarial Accrued Liability	\$1,223,672,766		\$1,270,247,610		
4.	Amortization of Unfunded Actuarial Accrued Liability over 30 years from July 1,	A 22 22 24 T	07.00/	A 400 470 007	47.00/	
	2014 Mid-year (1)	\$ 99,930,247	37.6%	\$120,176,235	47.3%	
5.	Budgeted Expenses	\$ 3,017,752	1.1%	\$ 2,988,309	1.2%	
6.	Total Required Contribution (2 + 4 + 5)	\$ 166,394,630	62.7%	\$184,112,744	72.5%	
7.	Estimated Member Contribution	\$ 23,899,679	9.0%	\$ 22,009,467	8.7%	
8.	Estimated Employer Contribution					
	a. Active Members - Paid	\$ 37,177,279	14.0%	\$ 34,707,236	13.7%	
	b. Deferred Option Plan Members – Paid	421,424	7.0% ⁽²⁾	401,990	6.8% ⁽²⁾	
	c. Active Members - Volunteer	496,200		495,360		
	d. Deferred Option Plan Members – Volunteer	270		450		
	e. Total	\$ 38,095,173	14.0% ⁽³⁾	\$ 35,605,036	13.7% ⁽³⁾	
9.	Required State Contribution to amortize Unfunded Actuarial Accrued Liability over 30 years from July 1, 2014 at Mid-year.					
	(6 - 7 - 8e)	\$ 104,399,778	39.3%	\$126,498,241	49.8%	
10.	Previous year's actual State Contribution (4)	\$ 79,545,329	30.0%	\$ 76,310,725	30.0%	
(1)	Funding Policy adopted by Bo	and The nelieurie to e			al	

Funding Policy adopted by Board. The policy is to amortize the Unfunded Actuarial Accrued Liability over 30 years from July 1, 2003 for the July 1, 2013 valuation. Percentage of Deferred Option Plan Compensation.

Percent of Total Compensation.

The System is scheduled to receive 34% of collected state-wide insurance premium taxes. Beginning November 1, 2013, the System is scheduled to receive 36% of collected state-wide insurance premium taxes.

1.1 Calculation of Contribution Requirement (continued)

	Allocation of contribution	July 1, 2014					
	requirements		Paid		Volunteer		Total
1.	Total normal cost mid- year	\$	61,040,819	\$	2,405,812	\$	63,446,631
2.	Unfunded actuarial accrued liability (1)	\$	1,156,024,735	\$	67,648,031	\$	1,223,672,766
3.	Amortization of unfunded actuarial accrued liability over 30 years from July 1, 2014 mid-year ⁽²⁾	\$	94,405,825	\$	5,524,422	\$	99,930,247
4.	Budgeted expenses ⁽³⁾	\$	2,850,922	\$	166,830	\$	3,017,752
5.	Total required contribution (1 + 3 + 4)	\$	158,297,566	\$	8,097,064	\$	166,394,630
6.	Estimated member contribution	\$	23,899,679	\$	0	\$	23,899,679
7.	Estimated employer contribution	\$	37,598,703	\$	496,470	\$	38,095,173
8.	Required state contribution to amortize unfunded actuarial accrued liability over 30 years from July 1, 2014 at mid-year (5 – 6 - 7)	\$	96,799,184	\$	7,600,594	\$	104,399,778

See Section 1.3 for allocation. Funding Policy Adopted by Board. Allocation based on total Actuarial Accrued Liability.

1.2 Liability Detail

Total	
Present Value of Benefits	\$ 3,882,376,325
Present Value of Future Normal Costs	\$ 656,923,939
Accrued Liability	\$ 3,225,452,386
Normal Cost Mid-Year	\$ 63,446,631

Active Accrued Liability	
a. Retirement	\$ 1,044,375,462
b. Withdrawal	6,124,357
c. Disability	215,553
d. Death	12,103,857
e. Total	\$ 1,062,819,229
Inactive Accrued Liability	
Members eligible for automatic COLA	
A. Disabled members	\$ 50,919,925
B. Beneficiaries	90,598,900
C. Retired members	86,693,273
D. Total	\$ 228,212,098
2. Members not eligible for automatic COLA	
A. Terminated vested members	29,419,522
B. Disabled members	468,321,450
C. Beneficiaries	122,032,223
D. Retired members	654,730,232
E. Deferred option plan members - annuity	38,801,342
F. Deferred option plan members - account balances	621,116,290
G. Total	\$ 1,934,421,059
3. Total inactive (1d + 2g)	\$ 2,162,633,157
Accrued Liability (Active + Inactive)	\$ 3,225,452,386

1.3 Unfunded Actuarial Accrued Liability

The actuarial accrued liability is the present value of projected Plan Benefits allocated to past service by the actuarial funding method being used.

	Total Plan				
	July 1, 2014 July 1, 20			luly 1, 2013	
Actuarial Present Value Of Benefits					
a. Active Members	\$	1,719,743,168	\$	1,655,661,627	
b. Members With Deferred Benefits		29,419,522		28,831,800	
c. Members Receiving Benefits Who Are Eligible For Automatic Cola		228,212,098		241,681,506	
d. Members Receiving Benefits Who Are Not Eligible For Automatic Cola		1,245,083,905		1,206,222,128	
e. Deferred Option Plan Members (1)		659,917,632		574,527,722	
f. Total		3,882,376,325		3,706,924,813	
Actuarial Present Value Of Future Normal Costs	\$	656,923,939	\$	625,026,452	
3. Total Actuarial Accrued Liability (1f - 2)	\$	3,225,452,386	\$	3,081,898,361	
4. Actuarial Value of Assets	\$	2,001,779,620	\$	1,811,650,751	
5. Unfunded Actuarial Accrued Liability (3 - 4, Not Less Than \$0)	\$	1,223,672,766	\$	1,270,247,610	

Allocation of current year between paid and volunteer:

	Total Plan				
	Paid	Volunteer	Total		
Actuarial present value of benefits					
a. Active members	\$ 1,655,097,035	\$ 64,646,133	\$ 1,719,743,168		
b. Members with deferred benefits	7,615,187	21,804,335	29,419,522		
Members receiving benefits who are eligible for automatic cola	228,212,098	0	228,212,098		
d. Members receiving benefits who are not eligible for automatic cola	1,139,158,040	105,925,865	1,245,083,905		
e. Deferred option plan members ⁽¹⁾	659,708,536	209,096	659,917,632		
f. Total	\$ 3,689,790,896	\$ 192,585,429	\$ 3,882,376,325		
Actuarial present value of future normal costs	\$ 642,650,482	\$ 14,273,457	\$ 656,923,939		
Total actuarial accrued liability (1f - 2)	\$ 3,047,140,414	\$ 178,311,972	\$ 3,225,452,386		
4. Actuarial value of assets (2)	\$ 1,891,115,679	\$ 110,663,941	\$ 2,001,779,620		
5. Unfunded actuarial accrued liability (3 - 4, not less than \$0)	\$ 1,156,024,735	\$ 67,648,031	\$ 1,223,672,766		

⁽¹⁾ Effective July 1, 1997, deferred option account balances are included as liability and assets and effective July 1, 2013, the guarantee for the interest rate credited to the account balances is included in the liability. The total account balance on July 1, 2014, is \$548,217,780 and the balance used on July 1, 2013, is \$472,994,792.

⁽²⁾ Allocated based on total actuarial accrued liability (item 3)

1.4 Actuarial Gain/(Loss)

The actuarial gain/(loss) is comprised of both the liability gain/(loss) and the actuarial asset gain/(loss). Each of these represents the difference between the expected and actual values as of July 1, 2014.

1. Expected actuarial accrued liability a. Actuarial accrued liability at July 1, 2013 b. Normal cost at July 1, 2013 c. Reserve for drop interest rate guarantee and drop contribution at mid-year d. Benefit payments for plan year ending June 30, 2014 e. Interest on a + b + c - d to end of year f. Impact of assumption change g. Plan changes h. Expected actuarial accrued liability at July 1, 2014 (a + b + c - d + e + f + g) 2. Actuarial accrued liability at July 1, 2014 3. Actuarial liability gain/(loss) (1h - 2) 4. Expected actuarial value of assets a. Actuarial value of assets at July 1, 2013 b. Contributions made for plan year ending June 30, 2014 c. Benefit payments and expenses for plan year ending June 30, 2014 d. Interest on a + b - c to end of year e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) f. Respected actuarial value of assets at July 1, 2014 d. Interest on a - b - c to end of year e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial saset gain/(loss) (5-4e) f. Actuarial gain/(loss) (3+6) f. Actuarial gain/(loss) (3+6)		
b. Normal cost at July 1, 2013 c. Reserve for drop interest rate guarantee and drop contribution at mid-year d. Benefit payments for plan year ending June 30, 2014 e. Interest on a + b + c - d to end of year e. Interest on a sasumption change g. Plan changes h. Expected actuarial accrued liability at July 1, 2014 (a + b + c - d + e + f + g) 2. Actuarial accrued liability at July 1, 2014 3. Actuarial liability gain/(loss) (1h - 2) 4. Expected actuarial value of assets a. Actuarial value of assets at July 1, 2013 b. Contributions made for plan year ending June 30, 2014 c. Benefit payments and expenses for plan year ending June 30, 2014 d. Interest on a + b - c to end of year e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial asset gain/(loss) (5-4e) f. Actuarial asset gain/(loss) (5-4e)	Expected actuarial accrued liability	
c. Reserve for drop interest rate guarantee and drop contribution at mid-year 0 d. Benefit payments for plan year ending June 30, 2014 173,344,947 e. Interest on a + b + c - d to end of year 229,168,233 f. Impact of assumption change 0 g. Plan changes 0 h. Expected actuarial accrued liability at July 1, 2014	a. Actuarial accrued liability at July 1, 2013	\$ 3,081,898,361
at mid-year d. Benefit payments for plan year ending June 30, 2014 e. Interest on a + b + c - d to end of year f. Impact of assumption change g. Plan changes h. Expected actuarial accrued liability at July 1, 2014 (a + b + c - d + e + f + g) 2. Actuarial accrued liability at July 1, 2014 3. Actuarial liability gain/(loss) (1h - 2) 4. Expected actuarial value of assets a. Actuarial value of assets at July 1, 2013 b. Contributions made for plan year ending June 30, 2014 c. Benefit payments and expenses for plan year ending June 30, 2014 d. Interest on a + b - c to end of year e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) f. Actuarial value of assets as of July 1, 2014 e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial asset gain/(loss) (5-4e) g. 3,196,505,311 3,196,505,	b. Normal cost at July 1, 2013	58,783,664
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g. Plan changes h. Expected actuarial accrued liability at July 1, 2014 (a + b + c - d + e + f +g) 3,196,505,311 2. Actuarial accrued liability at July 1, 2014 3,225,452,386 3. Actuarial liability gain/(loss) (1h - 2) (28,947,075) 4. Expected actuarial value of assets a. Actuarial value of assets at July 1, 2013 b. Contributions made for plan year ending June 30, 2014 c. Benefit payments and expenses for plan year ending June 30, 2014 d. Interest on a + b - c to end of year e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) 1,908,543,827 5. Actuarial value of assets as of July 1, 2014 8. 2,001,779,620 6. Actuarial asset gain/(loss) (5-4e) 9 3,235,793	e. Interest on a + b + c - d to end of year	229,168,233
h. Expected actuarial accrued liability at July 1, 2014 (a + b + c - d + e + f + g) 2. Actuarial accrued liability at July 1, 2014 3,196,505,311 2. Actuarial accrued liability at July 1, 2014 3,225,452,386 3. Actuarial liability gain/(loss) (1h - 2) 4. Expected actuarial value of assets a. Actuarial value of assets at July 1, 2013 b. Contributions made for plan year ending June 30, 2014 c. Benefit payments and expenses for plan year ending June 30, 2014 d. Interest on a + b - c to end of year e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) 1,908,543,827 5. Actuarial value of assets as of July 1, 2014 8. Actuarial asset gain/(loss) (5-4e) 93,235,793	f. Impact of assumption change	0
(a + b + c - d + e + f + g) 3,196,505,311 2. Actuarial accrued liability at July 1, 2014 3,225,452,386 3. Actuarial liability gain/(loss) (1h - 2) (28,947,075) 4. Expected actuarial value of assets 1,811,650,751 b. Contributions made for plan year ending June 30, 2014 137,706,693 c. Benefit payments and expenses for plan year ending June 30, 2014 175,303,048 d. Interest on a + b - c to end of year 134,489,431 e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) 1,908,543,827 5. Actuarial value of assets as of July 1, 2014 \$ 2,001,779,620 6. Actuarial asset gain/(loss) (5-4e) \$ 93,235,793		0
 2. Actuarial accrued liability at July 1, 2014 3,225,452,386 3. Actuarial liability gain/(loss) (1h - 2) (28,947,075) 4. Expected actuarial value of assets a. Actuarial value of assets at July 1, 2013 1,811,650,751 b. Contributions made for plan year ending June 30, 2014 137,706,693 c. Benefit payments and expenses for plan year ending June 30, 2014 175,303,048 d. Interest on a + b - c to end of year 134,489,431 e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) 1,908,543,827 5. Actuarial value of assets as of July 1, 2014 \$ 2,001,779,620 6. Actuarial asset gain/(loss) (5-4e) \$ 93,235,793 	h. Expected actuarial accrued liability at July 1, 2014	
3. Actuarial liability gain/(loss) (1h - 2) (28,947,075) 4. Expected actuarial value of assets a. Actuarial value of assets at July 1, 2013 1,811,650,751 b. Contributions made for plan year ending June 30, 2014 137,706,693 c. Benefit payments and expenses for plan year ending June 30, 2014 175,303,048 d. Interest on a + b - c to end of year 134,489,431 e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) 1,908,543,827 5. Actuarial value of assets as of July 1, 2014 \$2,001,779,620 6. Actuarial asset gain/(loss) (5-4e) \$93,235,793	(a + b + c - d + e + f + g)	3,196,505,311
 4. Expected actuarial value of assets a. Actuarial value of assets at July 1, 2013 b. Contributions made for plan year ending June 30, 2014 c. Benefit payments and expenses for plan year ending June 30, 2014 d. Interest on a + b - c to end of year e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) f. Actuarial value of assets as of July 1, 2014 f. Actuarial asset gain/(loss) (5-4e) f. Actuarial saset gain/(loss) (5-4e) 	2. Actuarial accrued liability at July 1, 2014	3,225,452,386
 a. Actuarial value of assets at July 1, 2013 b. Contributions made for plan year ending June 30, 2014 c. Benefit payments and expenses for plan year ending June 30, 2014 d. Interest on a + b - c to end of year e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) f. Actuarial value of assets as of July 1, 2014 f. Actuarial asset gain/(loss) (5-4e) f. Actuarial specification f. Actuarial value of assets as of July 1, 2014 f. Actuarial asset gain/(loss) (5-4e) f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 f. Actuarial value of assets as of July 1, 2014 	3. Actuarial liability gain/(loss) (1h - 2)	(28,947,075)
b. Contributions made for plan year ending June 30, 2014 c. Benefit payments and expenses for plan year ending June 30, 2014 d. Interest on a + b - c to end of year e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) 5. Actuarial value of assets as of July 1, 2014 6. Actuarial asset gain/(loss) (5-4e) 137,706,693 175,303,048 175,303,048 175,303,048 175,303,048 190,8543,827 190,801,779,620 190,801,779,620 190,801,779,620	4. Expected actuarial value of assets	
c. Benefit payments and expenses for plan year ending June 30, 2014 d. Interest on a + b - c to end of year e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) 5. Actuarial value of assets as of July 1, 2014 6. Actuarial asset gain/(loss) (5-4e) 175,303,048 175,303,048 175,303,048 1,908,543,827 2,001,779,620 \$ 2,001,779,620	a. Actuarial value of assets at July 1, 2013	1,811,650,751
June 30, 2014175,303,048d. Interest on a + b - c to end of year134,489,431e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d)1,908,543,8275. Actuarial value of assets as of July 1, 2014\$ 2,001,779,6206. Actuarial asset gain/(loss) (5-4e)\$ 93,235,793	b. Contributions made for plan year ending June 30, 2014	137,706,693
d. Interest on a + b - c to end of year 134,489,431 e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) 1,908,543,827 5. Actuarial value of assets as of July 1, 2014 \$ 2,001,779,620 6. Actuarial asset gain/(loss) (5-4e) \$ 93,235,793	 Benefit payments and expenses for plan year ending 	
e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d) 1,908,543,827 5. Actuarial value of assets as of July 1, 2014 \$ 2,001,779,620 6. Actuarial asset gain/(loss) (5-4e) \$ 93,235,793	June 30, 2014	175,303,048
5. Actuarial value of assets as of July 1, 2014 \$ 2,001,779,620 6. Actuarial asset gain/(loss) (5-4e) \$ 93,235,793	d. Interest on a + b - c to end of year	134,489,431
6. Actuarial asset gain/(loss) (5-4e) \$ 93,235,793	e. Expected actuarial value of assets at July 1, 2014 (a + b - c + d)	1,908,543,827
	5. Actuarial value of assets as of July 1, 2014	\$ 2,001,779,620
7. Actuarial gain/(loss) (3+6) \$ 64,288,718	6. Actuarial asset gain/(loss) (5-4e)	\$ 93,235,793
	7. Actuarial gain/(loss) (3+6)	\$ 64,288,718

1.5 Contributions

Contributions to the Retirement System are made by the Members, municipalities, fire districts, and the State of Oklahoma.

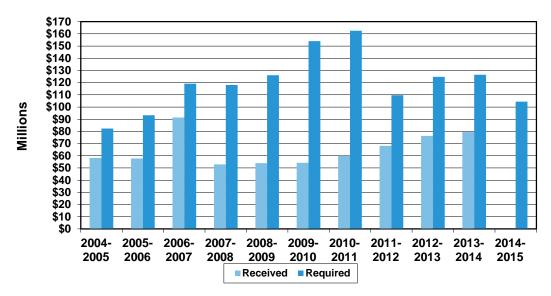
Historically, paid firefighters have contributed 8% of gross salary. Beginning November 1, 2013, the contribution rate for paid firefighters increased to 9%. Historically, municipalities and fire districts have contributed 13% of gross salary. Beginning November 1, 2013, the contribution rate for municipalities and fire districts increased to 14%.

For the fiscal year ending June 30, 2014, the fund received a contribution of \$79,545,329 from the State. The Retirement System received 34% of collected statewide insurance premium taxes until November 1, 2013. Beginning November 1, 2013, the System began receiving 36% of collected statewide insurance premium taxes

Volunteer firefighters do not contribute to the fund. Municipalities and fire districts that are not exempt contribute \$60 per year per active volunteer.

The Deferred Option Plan Members do not make employee contributions to the Fund. However, municipalities continue contributing for them, with 50% of the contribution going to the Retirement System fund and 50% going into the Deferred Option account. Contributions for members who retroactively elect to enter the Deferred Option Plan as of a back-drop-date are also deposited into the Deferred Option account.

State contributions received versus Contributions required by 30-year Funding Policy (1)



(1) 30-year amortization period was reset for plan year ending June 30, 2015 (SB 2024) to start at July 1, 2014. Prior to that time, the amortization period was 30 years from July 1, 2003.

1.6 Ten-Year Projected Cash Flow

(Retirement Benefit Payments)

Plan Year Ending	Actives	Retirees ⁽¹⁾	Total	
6/30/2015	5,077,383	201,156,334	206,233,717	
6/30/2016	12,575,347	206,261,023	218,836,370	
6/30/2017	20,162,235	211,668,536	231,830,771	
6/30/2018	28,180,130	217,637,367	245,817,497	
6/30/2019	36,374,432	224,145,075	260,519,507	
6/30/2020	6/30/2020 45,646,748 231,240,172		276,886,920	
6/30/2021	55,041,846	239,022,573	294,064,419	
6/30/2022	64,760,542	247,644,374	312,404,916	
6/30/2023	74,918,243	257,201,429	332,119,672	
6/30/2024	85,984,088	267,773,571	353,757,659	

⁽¹⁾ Includes Deferred Option Plan Members, Disabled Members, Beneficiaries and Terminated Vested Members and current Deferred Option Plan Accounts.

Section 2 Plan Assets

Section 2.1 Summary of Assets

Section 2.2 Reconciliation of Assets

Section 2.3 Actuarial Value of Assets

Section 2.4 Average Annual Rates of Investment Return

2.1 Summary of Assets (1)

Asset Category	Market Value as of June 30, 2014	Market Value as of June 30, 2013 ⁽²⁾			
	Amount	Amount			
Cash and short-term investments	\$ 40,394,823	\$ 49,485,679			
2. Receivables	\$ 89,140,129	\$ 22,603,035			
3. Investments at fair value					
a. Government bonds	\$ 0	\$ 176,811,724			
b. Foreign government bonds	45,509,701	37,322,459			
c. U.S. treasury	12,662,086	17,205,604			
d. International securities	82,647,856	73,795,193			
e. Corporate bonds	3,077,856	10,603,954			
f. International corporate bonds	0	0			
g. Common stock	1,448,479,877	1,128,264,962			
h. Foreign stock	114,982,941	114,688,191			
mortgage-backed securities	49,931,465	18,177,034			
j. Municipal bonds	1,733,871	1,518,931			
k. Limited partnerships	312,870,040	250,912,788			
I. Securities lending	144,543,920	137,834,828			
m. Total	\$ 2,216,439,613	\$ 1,967,135,668			
4. Assets used in plan operations	\$ 29,223	\$ 35,994			
5. Total assets	\$ 2,346,003,788	\$ 2,039,260,376			
6. Liabilities	\$ (148,899,245)	\$ (140,161,627)			
7. Net assets for pension benefits	\$ 2,197,104,543	\$ 1,899,098,749			

⁽¹⁾ Deferred option plan assets are included in the valuation assets. The value of these assets on July 1, 2013, was \$472,994,792 and the value on July 1, 2014, was \$548,217,780.

⁽²⁾ June 30, 2013 assets were reclassified into different categories. This reclassification has not been reflected for July 1, 2013 results in this report.

2.2 Reconciliation of Assets

Transactions	June 30, 20	14 .	June 30, 2013		
Additions					
1. Contributions					
a. Contributions from employers	\$ 36,103	,860 \$	34,286,563		
b. Contributions from plan members	22,057	,504	20,190,827		
c. Insurance premium tax	79,545	,329	76,310,725		
d. Legislative appropriation		0	0		
e. Total	\$ 137,706	,693 \$	130,788,115		
2. Net investment income	\$ 335,602	,149 \$	230,064,460		
3. Total additions	\$ 473,308	,842 \$	360,852,575		
Deductions					
4. Benefit payments	\$ (173,344	,947) \$	(168,983,642)		
5. Administrative expenses	(1,958	,101)	(2,005,153)		
6. Adjustment		0	0		
7. Total deductions	\$ (175,303	,048) \$	(170,988,795)		
8. Net increase	\$ 298,005	,794 \$	189,863,780		
Net assets held in trust for pension benefits					
a. Beginning of year	\$ 1,899,098	,749 \$	1,709,234,969		
b. End of year	\$ 2,197,104	,543 \$	1,899,098,749		
10. Drop assets (included in 9 above)					
a. Beginning of year	\$ 472,994	,792 \$	420,412,678		
b. End of year	\$ 548,217	,780 \$	472,994,792		

2.3 Actuarial Value of Assets

Schedule of Assets Gains/(Losses)							
Year	Original Amount	Recognized in Prior Years	Recognized This Year	Recognized in Future Years			
2009/2010	\$ 158,405,157	\$ 126,724,124	\$ 31,681,031	\$ 0			
2010/2011	141,090,329	84,654,198	28,218,066	28,218,065			
2011/2012	(133,963,350)	(53,585,340)	(26,792,670)	(53,585,340)			
2012/2013	99,636,055	19,927,211	19,927,211	59,781,633			
2013/2014	201,138,206	0	40,227,641	160,910,565			
Total	\$ 466,306,397	\$ 177,720,193	\$ 93,261,281	\$ 195,324,923			

Development of Actuarial Value of Assets	
Development of actuarial value of assets	
1.Actuarial value as of July 1, 2013 (pre-corridor)	\$ 1,811,650,751
2.Contributions	
a. Employer	\$ 36,103,860
b. Member	22,057,504
c. Insurance tax	79,545,329
d. Legislative appropriation	0
e. Total	\$ 137,706,693
3. Decreases during the year	
a. Benefit payments	\$ 173,344,947
b. Noninvestment expenses	1,958,101
c. Total	\$ 175,303,048
4. Expected return at 7.50% on:	
a. Item 1	\$ 135,873,806
b. Item 2	5,164,001
c. Item 3	6,573,864
d. Total (a + b - c)	\$ 134,463,943
5. Expected actuarial value of assets June 30, 2014 (1 +2 - 3 +4)	\$ 1,908,518,339
6. Unrecognized asset gain/(loss) as of June 30, 2013	\$ 87,447,998
 Expected actuarial value June 30, 2014 plus previous year's unrecognized asset gain/(loss) (5 + 6) 	\$ 1,995,966,337
8. Market value June 30, 2014	\$ 2,197,1044,543
9. 2013/2014 asset gain/(loss) (8 -7)	\$ 201,138,206
10. Asset gain/(loss) to be recognized as of June 30, 2014	\$ 93,261,281
11. Initial actuarial value July 1, 2014 (5 + 11)	\$ 2,001,779,620
12. Constraining values:	
a. 80% of market value (8 x 0.8)	\$ 1,757,683,634
b. 120% of market value (8 x 1.2)	2,836,525,452
13. Actuarial value July 1, 2014 (11), but no less than (12a), nor greater than (12b)	\$ 2,001,779,620

2.4 Average Annual Rates of Investment Return

Year Ending	Actuari	ial Value	Market Value		
June 30	Annual	Cumulative	Annual	Cumulative	
1991	7.46%	7.46%	7.77%	7.77%	
1992	8.35%	7.90%	13.74%	10.71%	
1993	9.42%	8.41%	13.70%	11.70%	
1994	8.34%	8.39%	1.75%	9.13%	
1995	9.56%	8.62%	15.06%	10.29%	
1996	11.30%	9.06%	15.22%	11.09%	
1997	25.01%	11.21%	18.24%	12.09%	
1998	11.34%	11.23%	18.77%	12.90%	
1999	10.32%	11.13%	6.59%	12.18%	
2000	10.98%	11.11%	11.08%	12.07%	
2001	7.14%	10.74%	(7.88%)	10.09%	
2002	1.94%	9.98%	(7.20%)	8.54%	
2003	3.56%	9.47%	3.73%	8.16%	
2004	2.75%	8.98%	13.32%	8.52%	
2005	1.75%	8.48%	9.29%	8.57%	
2006	5.39%	8.29%	10.23%	8.67%	
2007	10.42%	8.41%	15.93%	9.09%	
2008	7.85%	8.38%	(3.80%)	8.33%	
2009	(5.87%)	7.58%	(18.07%)	6.75%	
2010	3.32%	7.36%	9.58%	6.89%	
2011	7.21%	7.35%	21.10%	7.52%	
2012	2.41%	7.12%	0.33%	7.19%	
2013	5.33%	7.05%	13.62%	7.46%	
2014	12.70%	7.28%	17.85%	7.87%	

Annual Returns include Deferred Option Plan Assets.

Section 3 Basis of Valuation

This section presents and describes the basis of the valuation. This section presents and describes the basis of the valuation. The census of Members, actuarial basis and provisions of the Plan are the foundation of the valuation, since these are the present facts on which the projection of benefit payments will depend. The valuation is based on the premise that the Plan will continue in existence

Section 3.1 Plan Members

Section 3.2 Actuarial Basis

Section 3.3 Summary of Plan Provisions

3.1 Plan Members

A. Count of Paid Active Members

	Years	Years of Service								
Age	0-4	5-9	10- 14	15- 19	20- 24	25- 29	30- 34	35- 39	40+	Total
Under 20	0	0	0	0	0	0	0	0	0	0
20-24	167	4	0	0	0	0	0	0	0	171
25-29	367	117	0	0	0	0	0	0	0	484
30-34	247	362	79	9	0	0	0	0	0	697
35-39	112	230	211	151	6	0	0	0	0	710
40-44	51	130	136	305	121	3	0	0	0	746
45-49	22	56	53	150	198	100	2	0	0	581
50-54	4	14	22	103	130	181	76	1	0	531
55-59	1	2	4	28	46	65	54	15	0	215
60-64	0	0	0	0	4	11	10	3	0	28
65-69	0	0	0	1	1	0	1	0	0	3
70-74	0	0	0	0	0	0	0	0	0	0
75+	0	0	0	0	0	0	0	0	0	0
Total	971	915	505	747	506	360	143	19	0	4,166

B. Average Compensation of Paid Active Members

	Years of	Service								
Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+	Total
Under 20										0
20-24	38,645									38,816
25-29	42,956	51,987								45,139
30-34	45,992	58,578	66,651							55,079
35-39	43,578	58,735	69,507	74,620						63,078
40-44	42,938	55,772	71,519	75,122	86,815					70,791
45-49	43,047	61,944	69,774	73,086	84,203	77,723				75,006
50-54			64,734	72,392	79,203	70,169	89,680			75,132
55-59				62,163	70,689	65,467	82,074			71,935
60-64										69,923
65-69										61,558
70-74										0
75+										0
Total	43,162	57,524	69,329	73,531	82,214	71,198	84,508	92,204	0	63,473

Average compensation not shown for groupings of less than twenty members

C. Count of Volunteer Active Members

					Years o	of service	•			
Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+	Total
Under 20	0	0	0	0	0	0	0	0	0	0
20-24	892	68	0	0	0	0	0	0	0	960
25-29	690	388	37	0	0	0	0	0	0	1,115
30-34	620	460	209	21	0	0	0	0	0	1,310
35-39	525	445	218	111	13	0	0	0	0	1,313
40-44	361	386	211	202	62	2	0	0	0	1,224
45-49	208	298	188	183	88	25	3	0	0	993
50-54	59	162	180	190	106	37	9	1	0	744
55-59	9	18	82	153	85	39	15	3	0	404
60-64	6	6	8	60	52	21	6	4	1	164
65-69	0	2	0	4	8	8	1	1	2	26
70-74	0	1	0	2	4	0	1	0	0	8
75+	0	0	0	0	8	0	0	1	0	9
Total	3,370	2,234	1,133	926	427	132	35	10	3	8,270

D. Inactive Members Statistics

Paid	Paid							
Inactiv	ve members as of July 1, 2014	Number	Amount of Annual benefit					
Memb	ers receiving benefits							
a.	Retired	2,053	\$ 59,939,976					
b.	Beneficiaries	833	23,916,456					
C.	Disabled	1,502	45,964,188					
d.	Deferred option	68	3,025,776					
Total		4,456	\$ 132,846,396					
Memb	ers with deferred benefits							
a.	Terminated vested	58	\$ 819,684					
Total		58	\$ 819,684					

Volunteer								
Inactive members as of July 1, 2014	Number	Amount of Annual benefit						
Members receiving benefits								
a. Retired	4,114	\$ 7,267,476						
b. Beneficiaries	1,189	2,043,816						
c. Disabled	329	469,992						
d. Deferred option	9	16,308						
Total	5,641	\$ 9,797,592						
Members with deferred benefits								
a. Terminated vested	1,332	\$ 2,150,964						
Total	1,332	\$ 2,150,964						

E. Member in Pay Status - Annual Benefits

Paid									
Attained	Retired	Retired members		Beneficiaries		Disabled members		Current payment total	
age	No.	Benefit	No.	Benefit	No.	Benefit	No.	Benefit	
Under 50	47	1,267,308	33	844,332	111	2,668,272	191	4,779,912	
50-54	214	6,462,060	28	735,600	139	4,321,056	381	11,518,716	
55-59	346	10,432,416	47	1,304,292	280	8,956,380	673	20,693,088	
60-64	413	12,215,244	77	1,927,656	288	9,078,168	778	23,221,068	
65-69	304	8,337,780	104	2,836,176	277	8,285,796	685	19,459,752	
70-74	297	7,932,540	144	3,720,984	221	6,666,012	662	18,319,536	
75-79	206	5,815,080	134	3,969,576	117	3,422,532	457	13,207,188	
80-84	132	4,227,108	108	3,479,376	40	1,446,204	280	9,152,688	
85-89	69	2,418,048	96	3,069,336	23	862,056	188	6,349,440	
90 and over	25	832,392	62	2,029,128	6	257,712	93	3,119,232	
Total	2,053	59,939,976	833	23,916,456	1,502	45,964,188	4,388	129,820,620	

Volunteer								
Attained age	Retired members		Beneficiaries		Disabled Members		Current payment total	
ugo	No.	Benefit	No.	Benefit	No.	Benefit	No.	Benefit
Under 50	185	339,276	69	85,296	30	35,964	284	460,536
50-54	474	813,180	35	47,328	40	55,392	549	915,900
55-59	688	1,155,492	70	106,812	42	58,716	800	1,321,020
60-64	728	1,254,444	104	171,204	54	75,252	886	1,500,900
65-69	666	1,202,484	125	221,436	62	87,000	853	1,510,920
70-74	543	973,800	146	254,424	44	66,828	733	1,295,052
75-79	373	672,960	192	343,608	35	54,984	600	1,071,552
80-84	248	466,608	163	298,620	17	26,712	428	791,940
85-89	155	289,248	167	299,184	2	3,708	324	592,140
90 and over	54	99,984	118	215,904	3	5,436	175	321,324
Total	4,114	7,267,476	1,189	2,043,816	329	469,992	5,632	9,781,284

F. Terminated Vested and Deferred Option Plan Members - Annual Benefits

Paid	Paid							
Attained age	Terminate	d vested members	Deferred o	Deferred option plan members				
Attained age	No.	Benefit	No.	Benefit				
Under 40	6	\$ 93,276	0	\$ 0				
40-44	20	254,112	7	306,396				
45-49	13	180,300	11	474,984				
50-54	12	153,408	33	1,491,972				
55-59	4	105,432	16	713,976				
60-64	3	33,156	1	38,448				
65-69	0	0	0	0				
70 and over	0	0	0	0				
Total	58	\$ 819,684	68	\$ 3,025,776				

Volunteer							
Attained and	Terminate	d vested members	Deferred op	Deferred option plan members			
Attained age	No.	Benefit	No.	Benefit			
Under 40	110	\$ 122,844	0	\$ 0			
40-44	161	191,808	1	1,812			
45-49	249	330,828	0	0			
50-54	243	352,020	3	5,436			
55-59	206	348,888	3	5,436			
60-64	129	253,536	1	1,812			
65-69	69	153,180	1	1,812			
70 and over	165	397,860	0	0			
Total	1,332	\$ 2,150,964	9	\$ 16,308			

G. Member Data Reconciliation

	Paid meml	bers							
	Active me	mbers	Inactive me	Inactive members					
	Regular	Deferred option plan	Deferred vested members	Retired members	Disabled members	Bene- ficiari es	Total		
As of July 1, 2013	4,136	69	59	2,038	1,479	808	8,589		
Deferred option plan retirees	(10)	10							
Service retirements	(59)	(8)	(4)	71					
Disability retirements	(43)	(2)			45				
Deaths without beneficiaries				(13)	(8)	(36)	(57)		
Deaths with beneficiaries	(1)			(32)	(26)	59			
Nonvested terminations	(48)						(48)		
Vested terminations	(5)		5						
Rehires	2	(1)	(1)						
Cashouts of member contributions									
Expiration of benefits									
Data corrections	(5)		(1)	(11)	12	2	(3)		
Transfers to volunteer	(12)						(12)		
Transfers from volunteer	69						69		
Net change	(112)	(1)	(1)	15	23	25	(51)		
New entrants during the year	142						142		
Net change	30	(1)	(1)	15	23	25	91		
As of July I, 2014	4,166	68	58	2,053	1,502	833	8,680		

G. Member Data Reconciliation (continued)

			Vo	lunteer memb	ers			
	Active mer	Active members		Inactive members Deferred				
	Regular	Deferred option plan	vested members	Retired members	Disabled members	Bene- ficiaries	Total	
As of July 1, 2013	8,256	15	1,297	4,026	336	1,181	15,111	
Deferred option plan retirees								
Service retirements	(123)	(6)	(46)	175				
Disability retirements	(7)				7			
Deaths without beneficiaries			(1)	(36)	(4)	(63)	(104)	
Deaths with beneficiaries	(11)			(43)	(9)	63		
Nonvested terminations	(751)						(751)	
Vested terminations	(94)		94					
Rehires	13		(12)		(1)			
Cashouts of member contributions								
Expiration of benefits								
Data corrections				(8)		8		
Transfers to paid	(69)						(69)	
Transfers from paid	12						12	
Net change	(1,030)	(6)	35	88	(7)	8	(912)	
New entrants during the year	1,044						1,044	
Net change	14	(6)	35	88	(7)	8	132	
As of July I, 2014	8,270	9	1,332	4,114	329	1,189	15,243	

3.2 Actuarial Basis

A. Entry Age Actuarial Cost Method

Liabilities and contributions shown in this report are computed using the Individual Entry Age method of funding.

Sometimes called "funding method", an actuarial cost method is a particular technique used by actuaries for establishing the amount and incidence of the annual actuarial cost of Plan Benefits, or normal cost, and the related unfunded actuarial accrued liability. Ordinarily the annual contribution to the plan is comprised of (1) the normal cost and (2) an amortization payment on the unfunded actuarial accrued liability.

Under the Entry Age Actuarial Cost Method, the Normal Cost is computed as the level percentage of pay which, if paid from the earliest time each Member would have been eligible to join the plan if it then existed (thus, entry age) until his retirement or termination, would accumulate with interest at the rate assumed in the valuation to a fund sufficient to pay all benefits under the plan.

The Actuarial Accrued Liability under this method at any point in time is the theoretical amount of the fund that would have accumulated had annual contributions equal to the normal cost been made in prior years (it does not represent the liability for benefits accrued to the valuation date.) The Unfunded Actuarial Accrued Liability is the excess of the actuarial accrued liability over the actuarial value of plan assets actually on hand on the valuation date.

Under this method experience gains or losses, i.e. decreases or increases in accrued liabilities attributable to deviations in experience from the actuarial assumptions, adjust the unfunded actuarial accrued liability.

Actuarial Present Value

The current worth (on the valuation date) of an amount or series of amounts payable or receivable in the future. The actuarial present value is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment.

B. Asset Valuation Method

The actuarial value of assets is based on a five-year moving average of expected and market values determined as follows:

- at the beginning of each plan year, a preliminary expected actuarial asset value is calculated as the sum of the previous year's actuarial value increased with a year's interest at the System valuation rate plus net cash flow adjusted for interest (at the same rate) to the end of the previous plan year;
- the expected actuarial asset value is set equal to the preliminary expected actuarial value plus the unrecognized investment gains and losses as of the beginning of the previous plan year;
- the difference between the expected actuarial asset value and the market value is the investment gain or loss for the previous plan year;

 the (final) actuarial asset value is the preliminary value plus 20% of the investment gains and losses for each of the five previous plan years, but in no case more than 120% of the market value or less than 80% of the market value.

C. Valuation Procedures

No actuarial accrued liability is held for nonvested, inactive Members who have a break in service, or for nonvested Members who have quit or been terminated, even if a break in service had not occurred as of the valuation date.

The wages used in the projection of benefits and liabilities were considered earnings for the year ending June 30, 2014, increased by the salary scale to develop expected earnings for the current valuation year. Earnings were annualized for Members with less than twelve months of reported earnings.

In computing accrued benefits, average earnings were determined using actual pay history provided for valuation purposes.

The impact from the dollar limitation required by the Internal Revenue Code Section 415 for governmental plans was not considered in this valuation and was determined not to be significant on a projected basis.

The compensation limitation under IRC Section 401(a)(17) was not considered in this valuation. On a projected basis, the impact of this limitation is insignificant.

The census data provided by the Retirement System was screened for completeness and validity, and discrepancies were resolved. No significant assumptions for incomplete data were necessary.

The estimated employee, employer and state contributions have been determined based on total compensation.

When the data is edited, members reported as non-vested terminations are verified to have less than ten years of service at date of termination. Members with more than ten years of service are included in the valuation (with estimated benefits if necessary).

The Deferred Option Plan members are valued in a manner similar to retired Members. The main difference is the continuation of 50% of the employer contributions to the Firefighters Pension and Retirement System based on the compensation rate of the Deferred Option Plan members.

For members hired before November 1, 2013, Deferred Option Plan account balances are assumed to grow at 10.45% and be paid out over ten years, for the account balances of current DROP members; and over twenty years, for future DROP members. Discounting the expected DROP benefit payments at the assumed rate of return will result in a larger valuation liability than the actual DROP account balances. This difference represents the liability associated with the interest rate guarantee on the DROP accounts.

For members hired on or after November 1, 2013, Deferred Option Plan account balances are assumed to be paid as a lump sum upon termination.

The contribution requirements are based on total annual compensation rather than total covered compensation. This is a better reflection of the overall expectations for the Plan.

The calculations for the required state contribution are determined as of mid-year. This is a reasonable assumption since the employer contributions, employee contributions and State insurance premium tax allocations are made on a monthly basis throughout the year, and mid-year represents an average weighting of the contributions.

D. Actuarial Assumptions

Paid Firefighters

Economic Assumptions

Investment Return

7.5%, net of investment expenses, per annum, compound annually.

2. Earnings Progression

Sample rates below:

Years	Inflation	Merit	Increase
of Service	%	%	%
0	3.0	6.00	9.00
1	3.0	5.50	8.50
2	3.0	5.00	8.00
3	3.0	4.90	7.90
4	3.0	4.75	7.75
5	3.0	4.50	7.50
10	3.0	3.55	6.55
15	3.0	1.65	4.65
20	3.0	1.20	4.20
25	3.0	1.00	4.00
30+	3.0	0.50	3.50

3. Reserve for Guaranteed Interest Rate for DROP Account Balances

For members hired before November 1, 2013, DROP account balances are assumed to earn 2.95% more than the assumed investment return. The accounts are assumed to grow at 10.45%, and be paid out over ten years, for the account balances of current DROP members; and over twenty years, for future DROP members.

For members hired on or after November 1, 2013, DROP account balances are assumed to be paid as a lump sum upon termination.

Demographic Assumptions

1. Retirement Rates

See table below:

Attained Service	Annual Rates of Retirement Per 100 Eligible Members
20*	10
21*	5
22	5
23	5
24	10
25-29	15
30-33	20
34	25
35+	100
20	10
21	5

^{*} Not applicable for members hired on or after November 1, 2013

2. Mortality Rates

(a) Active employees (pre-retirement)

RP-2000 Blue Collar Healthy Combined with generational mortality improvement using Scale AA.

(b) Active employees (post-retirement) and nondisabled pensioners

RP-2000 Blue Collar Healthy Combined with generational mortality improvement using Scale AA

(c) Disabled pensioners

RP-2000 Blue Collar Healthy Combined

3. Disability Rates

Graduated rates. See table below:

Age Range	Annual Rate
20-24	.0005
25-29	.0010
30-34	.0035
35-39	.0035
40-44	.0045
45-49	.0070
50-54	.0200
55-59	.0400
60-64	.0900

20% of disabilities are assumed to be Non-Duty related and 80% are assumed to be Duty related

4. Withdrawal Rates

Graduated rates. See table below:

Attained Service	Rate
0	.0300
1	.0350
2	.0300
3	.0200
4	.0200
5-9	.0100
10-14	.0080
15+	.0040

5. Marital Status

(a) Percentage married: Males: 85%; Females: 85%

(b) Age difference: Males are assumed to be three years older

than females.

Other Assumptions

1. Assumed Age of Commencement for Deferred Benefits:

Later of Age 50 and 20 Years of Service for members hired before November 1, 2013 and Age 50 with 22 Years of Service for members hired on or after

November 1, 2013.

2. Provision for Expenses

Administrative Expenses, as budgeted by the Oklahoma Firefighters Pension and Retirement

System.

3. Cost-of-Living Allowance Assumption for retirees with 20 years of service as of May 26, 1983 Half of the dollar amount of a 3% assumed increase in base pay.

4. Cost-of-Living Increase Assumption

Members are assumed to receive no annual increase in benefits during retirement, except for those in Item 3 above.

5. Deferred Option Plan

The retirement rates reflect both regular retirement and entry into the DROP. 100% of member retirements with at least 25 years of service are assumed to retroactively elect to enter DROP.

Volunteer firefighters

Economic assumptions

1. Investment return 7.50%, net of investment expenses, per annum,

compound annually.

2. Benefit level increases No increases.

Demographic assumptions

1. Retirement rates Sample rates below:

Attained service	Annual rates of retirement Per 100 eligible members
20*	30
21*	15
22	15
23	15
24	25
25	25
26-28	15
29-34	20
35+	100

^{*} Not applicable for members hired on or after November 1, 2013

2. Mortality Rates

(a) Active employees RP-2000 Blue Collar Healthy Combined (pre-retirement)

with generational mortality improvement using

Scale AA.

(b) Active employees (post-retirement) and

nondisabled pensioners RP-2000 Blue Collar Healthy Combined

with generational mortality improvement using

Scale AA

(c) Disabled pensioners RP-2000 Blue Collar Healthy Combined

3. Disability Rates

Graduated rates. See table below:

Age Range	Annual Rate
20-24	.0005
25-29	.0005
30-34	.0005
35-39	.0005
40-44	.0010
45-49	.0030
50-54	.0030
55-59	.0060
60-64	.0200

33% of disabilities are assumed to be Non-Duty related and 67% are assumed to be Duty related.

4. Withdrawal Rates

Graduated rates. See table below:

Attained service	Rate
0	.1500
1	.1600
2	.1400
3	.1300
4	.1100
5-9	.0080
10-14	.0550
15+	.0350

5. Marital Status

(a) Percentage married: Males: 85%; Females: 85%

(b) Age difference: Males are assumed to be three years older

than females.

Other Assumptions

2. Assumed Age of Commencement for Deferred Benefits:

Later of Age 50 and 20 Years of Service for members hired before November 1, 2013 and Age 50 with 22 Years of Service for members hired on or after November 1, 2013.

2. Provision for Expenses

Administrative Expenses, as budgeted by the Oklahoma Firefighters Pension and Retirement System.

 Cost-of-Living Allowance Assumption for retirees with 20 years of service as of May 26, 1983 Members are assumed to receive no annual increase in benefits during retirement.

4. Deferred Option Plan

The retirement rates reflect both regular retirement and entry into the DROP.

3.3 Summary of System Provisions

Effective Date and Plan Year: The plan became effective May 14, 1908 and is regularly amended during legislative session. The

plan year is July 1 to June 30.

Administration: The plan is administered the Oklahoma Firefighters

Pension and Retirement System Board consisting of 13 members. The Board acts as the fiduciary for

investment and administration of the Plan.

Members Included: All paid and volunteer firefighters of participating

municipalities and fire protection districts.

Member Contributions: Paid firefighters contributed 8% of gross salary prior

to November 1, 2013. Effective November 1, 2013, paid firefighters contribute 9% of gross salary. No employee contributions are required of volunteer

firefighters.

Employer Contributions: Participating municipalities and fire protection districts

contributed 13% of gross salary for each paid firefighter and \$60.00 per year for each volunteer firefighter prior to November 1, 2013. Effective November 1, 2013, participating municipalities and fire protection districts will contribute 14% of gross salary for each paid firefighter. Municipalities with revenues under \$25,000 make no contribution for

volunteers.

State Contributions: Insurance Premium Tax allocation. The fund received

34% of these collected taxes prior to November 1, 2013. Effective November 1, 2013, the fund is scheduled to receive 36% of these collected taxes.

Service Considered: The period of membership in the Pension System or a

predecessor municipal system. Service for members of a fire protection district does not accrue before

July 1, 1982.

Military service is credited for one term (unless the member is required by law to re-enlist) if the city continues to make contributions on the member's behalf as though he were in actual service, provided that he returns to actual service within the fire department within ninety (90) days of honorable discharge. War veterans shall receive up to five years

of credit for active military service.

A member who has withdrawn his contributions and later returns to membership may repay the amount withdrawn plus interest as determined by the Board to reinstate participating service which was canceled by

his withdrawal.

A member may receive credit for up to five years of credited service accumulated by the member while a member of the Oklahoma Police Pension and Retirement System, the Oklahoma Law Enforcement Retirement System, the Teachers' Retirement System of Oklahoma, or the Oklahoma Public Employees Retirement System, if the member is not receiving or eligible to receive retirement credit or benefits from said service in any other public retirement system.

The cost of buy-back service is determined as the actuarial present value of the benefits attributable to

this service, effective January 1, 1991.

Considered Compensation: The member's gross salary excluding overtime,

payment for accumulated sick or annual leave upon

termination, any uniform allowances or

reimbursement of out-or-pocket expenses, but excluding any salary reductions pursuant to Section 457 or Section 414(b) of the Internal Revenue Code. Only salary on which the required contributions have

been made may be considered.

Final Average Compensation: The monthly average of the highest thirty (30)

consecutive months of the last sixty (60) months of

participating service.

Normal Retirement Date: For member hired before November 1, 2013, the first

day following the day the member completes twenty (20) years of service, regardless of age. For member hired on or after November 1, 2013, the first day following the day the member completes twenty (20)

years of service and is 50 years old.

Normal Retirement Benefit:

Paid firefighters A monthly benefit equal to 50% of final average

compensation.

Volunteer firefighters \$150.60 per month, effective July 1, 2008.

Late Retirement Benefit: Benefits continue to accrue for service up to thirty (30)

years at the following rates:

Paid firefighters 2.5% of final average compensation per year of

service.

\$7.53 per month per year of service, effective July 1, Volunteer firefighters

2008

Early Retirement Benefit: None.

Disability or Death Benefit: All firefighters are eligible for immediate disability or

death benefits. Disabilities due to heart disease, injury to the respiratory system, or cancer are considered in the line of duty. If there is no eligible surviving spouse, the death benefit is divided between the children under age 18 or age 22 if children are

enrolled as full-time students.

Paid firefighters 2.5% of final average monthly compensation per year

of service, with a minimum service credit of 20 years and maximum of 30 years. For disabilities not in the line of duty, final average monthly compensation is

based on 60 months instead of 30 months.

Volunteer firefighters \$7.53 per month per year of service, with a maximum

of 30 years. For disabilities or deaths in the line of duty, there is a minimum service credit of 20 years.

Vested Severance Benefit: For members hired before November 1, 2013:

> A member who terminates after ten years of credited service is eligible for a vested severance benefit

determined by the normal retirement formula, based on service and salary history to date of termination.

The benefit is payable at age 50 or when the member would have completed twenty years of service, whichever is later, provided the member's contribution accumulation is not withdrawn.

Members terminating with less than ten years of credited service receive a refund of their contribution accumulation without interest.

For members hired on or after November 1, 2013:

A member who terminates after 11 years of credited service is eligible for a vested severance benefit determined by the normal retirement formula, based on service and salary history to date of termination.

The benefit is payable at age 50 and 22 years of service provided the member's contribution accumulation is not withdrawn.

Members terminating with less than 11 years of credited service receive a refund of their contribution accumulation without interest.

Lump Sum Death Benefit:

Upon the death of an active or retired member on or after July 1, 1999, a \$5,000 lump sum death benefit will be paid to the member's beneficiary, or estate if no beneficiary. The \$5,000 death benefit does not apply to members electing the vested benefit.

Form of Payments:

The normal form of benefit is a Joint and 100% Survivor Annuity if the firefighter was married 30 months prior to death.

Post-Retirement Adjustments:

Firefighters with 20 years of service as of May 26, 1983, are entitled to post-retirement adjustments equal to one-half the increase or decrease for top step firefighters. Pensions will not be adjusted below the level at which the firefighter retired.

Deferred Option Plan:

A Member who is eligible to receive a Normal Retirement Benefit and continues employment may elect to participate in the Deferred Option Plan (DROP). Participation in the DROP shall not exceed five years. The employees' contributions cease upon entering the Plan, but the employer contributions are divided equally between the Retirement System and DROP. The monthly retirement benefits that the employee is eligible to receive are paid into the DROP account.

A member is also allowed to retroactively elect to join the DROP as of a back-drop-date which is no earlier than the member's Normal Retirement Date or five years before his termination date. The monthly retirement benefits and employee contributions that would have been payable had the member elected to join the DROP are credited to the member's DROP account with interest.

The retirement benefits are not recalculated for service and salary past the election date to join the

DROP. However, the benefits may be increased by any applicable cost-of-living increases.

When the Member actually terminates employment, the DROP account balance may be paid in a lump sum or to an annuity provider. Monthly retirement benefits are then paid directly to the retired Member.

For members hired before November 1, 2013, the DROP account is guaranteed a minimum of the valuation interest rate for investment return, or 2% less than the fund rate of return, if greater.

For members hired on or after November 1, 2013, the DROP account is guaranteed a minimum of the valuation interest rate for investment return, or 2% less than the fund rate of return, if greater, while in active DROP. The DROP account is credited with 1% less than the fund rate of return once the member leaves active DROP.