OKLAHOMA POLICE PENSION AND RETIREMENT SYSTEM

ACTUARIAL VALUATION REPORT AS OF JULY 1, 2026

SUBMITTED: SEPTEMBER 8, 2026

CavMac
Actuarial Consulting Services

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Actuarial Consulting Services

September 8, 2026

Board of Trustees
Oklahoma Police Pension and Retirement System
1001 N.W. 63rd Street, Suite 305
Oklahoma City, OK 73116-7335

Members of the Board:

At your request, we performed an actuarial valuation of the Oklahoma Police Pension and Retirement System (OPPRS) as of June 30, 2026 for the purpose of determining the required State contribution for the fiscal year ending June 30, 2027. The major findings of the valuation are contained in this report, which reflects the benefit provisions in place on June 30, 2026. There have been no changes to the actuarial methods or assumptions since the prior valuation. However, the passage of Senate Bill 1146 (SB 1146) and Senate Bill 1149 (SB 1149) since last year's valuation will impact benefit payments. SB 1146 provides for a one-time, permanent benefit increase for members who have been retired for at least ten years and SB 1149 provides for a one-time benefit stipend for certain retirees and their beneficiaries. These bills and their impact on the current valuation results are discussed in further detail in the Executive Summary of the report.

The promised benefits of the System are included in the actuarially calculated contribution rates which are developed using the Entry Age Normal cost method. A five-year smoothed market related value of assets is used for actuarial valuation purposes. Gains and losses are reflected in the unfunded actuarial accrued liability (UAAL) that is amortized by regular annual contributions as a level dollar amount over an open five-year period, while a surplus is amortized over 30 years.

In preparing our report, we relied, without audit, on information (some oral and some in writing) supplied by the System's staff. This information includes, but is not limited to, statutory provisions, member data and financial information. We found this information to be reasonably consistent and comparable with the information received in the prior year. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete, our results may be different, and our calculations may need to be revised.

We further certify that all costs, liabilities, rates of interest and other factors for OPPRS have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of the System and reasonable expectations); and which, in combination, offer the best estimate of anticipated experience affecting OPPRS. Nevertheless, the emerging costs will vary from those presented in this report to the extent actual experience

differs from that projected by the actuarial assumptions. The OPPRS Board has the final decision regarding the appropriateness of the assumptions and adopted them as indicated in Appendix B.

In order to prepare the results in this report, we have utilized actuarial models that were developed to measure liabilities and develop actuarial costs. These models include tools that we have produced and tested, along with commercially available valuation software that we have reviewed to confirm the appropriateness and accuracy of the output. In utilizing these models, we develop and use input parameters and assumptions about future contingent events along with recognized actuarial approaches to develop the needed results. Future actuarial measurements may differ significantly from the current measurements 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. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements.

The actuarial computations presented in this report are for purposes of determining the funding amounts for OPPRS as set out in the Oklahoma State Statutes. The calculations in the enclosed report have been made on a basis consistent with our understanding of OPPRS' funding policy. Determinations for purposes other than meeting these requirements may be significantly different from the results contained in this report. Accordingly, additional determinations may be needed for other purposes. For example, actuarial computations for purposes of fulfilling financial accounting requirements for the System under Governmental Accounting Standard No. 67 will be presented in a separate report.

The consultants who worked on this assignment are pension actuaries with substantive experience valuing public retirement systems. CavMac's advice is not intended to be a substitute for qualified legal or accounting counsel.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with assumptions and methods that meet the guidance of the Actuarial Standards of Practice. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein. We are available to answer any questions on the material contained in the report or to provide explanations or further details as may be appropriate.

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

Sincerely,

Brent Banister, PhD, FSA, EA, FCA, MAAA
Chief Actuary

Aaron Chochon, ASA, EA, FCA, MAAA
Consulting Actuary

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SECTION 1 – EXECUTIVE SUMMARY

OVERVIEW

The Oklahoma Police Pension and Retirement System (OPPRS) provides retirement benefits for police officers employed by any of the approximately 135 contributing entities. OPPRS is administered by its own Board of Trustees.

This report presents the results of the July 1, 2026 actuarial valuation for the System. The primary purposes of performing an actuarial valuation are to:

- Determine the employer contribution rate required to fund the System on an actuarial basis;
- Evaluate the sufficiency of the statutory contribution rate;
- Disclose asset and liability measures as of the valuation date;
- Assess and disclose the key risks associated with funding the System;
- Determine the experience of the System since the last valuation date; and
- Analyze and report on trends in System contributions, assets, and liabilities.

During the 2026 Oklahoma Legislative Session, state lawmakers passed Senate Bill 1146 (SB 1146) and Senate Bill 1149 (SB 1149), both of which will increase benefit payments to retired members and their beneficiaries. Under SB 1146, retirees and beneficiaries who have been retired for at least 10 years will receive a one-time, permanent benefit increase. Effective November 1, 2026, the benefit increase will be 6.0% for those who have been retired for 20 years or more as of June 30, 2026, 3.0% for those who have been retired for at least 10 years but less than 20 years as of June 30, 2026, and there will be no increase for those who have been retired for less than 10 years. SB 1149 provides for a one-time $25,000 benefit stipend on October 31, 2026 for certain retirees and their beneficiaries. Retirees and their beneficiaries qualify for the stipend if they were not retired and did not have 20 years of credited service as of May 26, 1983 and retired before June 30, 1990. As a result of these two benefit enhancements, the actuarial accrued liability increased by $49.2 million and the actuarial required contribution rate increased by 2.4%.

The valuation results provide a snapshot view of the System's financial condition on July 1, 2026. The unfunded actuarial accrued liability increased from the prior valuation by $68.3 million due to various factors. A detailed analysis of the change in the unfunded actuarial accrued liability from July 1, 2025 to July 1, 2026 is shown on page 5. The highlights of the valuation are shown below:

	Actuarial Valuation Date	
$(millions)	**July 1, 2026**	**July 1, 2025**
Actuarial Accrued Liability	$ 3,883.8	$ 3,626.9
Actuarial Value of Assets	$ 3,728.9	$ 3,540.4
Unfunded Actuarial Accrued Liability	$ 154.8	$ 86.5
Funded Ratio (Actuarial Value)	96.0%	97.6%
Market Value of Assets	$ 3,930.8	$ 3,449.7
Funded Ratio (Market Value)	101.2%	95.1%

Note: Numbers may not add due to rounding.

There was a liability loss of about $6.4 million, or about 0.2% of the expected actuarial accrued liability, primarily due to mortality experience that was less favorable than expected based on the actuarial assumptions. The estimated rate of return on the market value of assets, net of investment expenses, was 14.5% for the year ended June 30, 2026. The actuarial value of assets is determined using a method to smooth investment gains and losses in order to develop more stable contribution rates. The estimated rate of return on the actuarial value of assets was 5.8%, which is lower than the assumed return of 7.5% and resulted in an actuarial loss of about $59.6 million. The net impact of the asset and liability experience was a loss of $66.0 million.

EXPERIENCE: July 1, 2025 to July 1, 2026

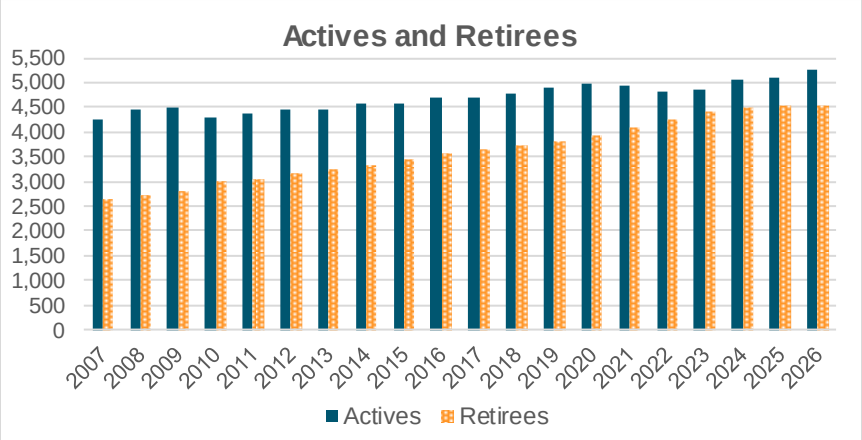
In many respects, an actuarial valuation can be thought of as an inventory process. The inventory is taken as of the actuarial valuation date, which for this valuation is July 1, 2026. On that date, the assets available for the payment of benefits are appraised. The assets are compared with the liabilities of the System, which are generally in excess of the assets. The actuarial process leads to a method of determining the contributions needed by members and employers in the future to balance the System assets and liabilities.

Changes in the System's assets and liabilities impacted the change in the actuarial contribution rate between July 1, 2025 and July 1, 2026. Each component is examined in the following discussion.

MEMBERSHIP

The number of active members increased by 3.2% from 5,099 in the 2025 valuation to 5,260 in the 2026 valuation. The retired member population and the average retirement benefit amounts continued to increase steadily. There were 4,545 retirees and beneficiaries in the 2026 valuation with an average benefit of $2,990 per month compared to the previous year when there were 4,524 retirees and beneficiaries with an average benefit of $2,983 per month.

As shown in the following graph, the number of contributing members has grown slowly over the past 20 years while the number of participants receiving benefits has steadily increased. This is expected to occur as a System matures. However, this also helps to illustrate a potential funding risk to the System. As retirees continue to account for an increasing percentage of the overall membership and, more importantly, a larger percentage of the System's liabilities, it will be more difficult to make up any funding shortfalls with larger payroll-related contributions. Currently, though, the System is well funded and expected contributions are ahead of what is required to fund its liabilities on an actuarially sound basis, so this is not an immediate concern.



ASSETS

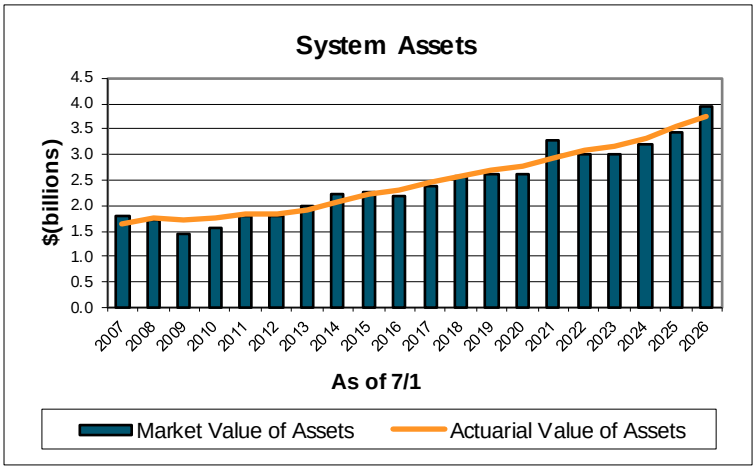
As of July 1, 2026, the System had total funds, when measured on a market value basis, of $3.931 billion. This was an increase of $481 million from the balance of $3.450 billion as of July 1, 2025. The market value of assets is not used directly in the calculation of the actuarial contribution rate. An asset valuation method, which smooths the effect of market fluctuations, is used to determine the value of assets used in the valuation, called the "actuarial value of assets". Differences between the actual return on the market value of assets and the assumed return on the actuarial value of assets are phased in over a five-year period. The resulting value must be no less than 80% of the market value and no more than 120% of market value, referred to as "the corridor". See Table 3 for the detailed development of the actuarial value of assets as of July 1, 2026.

The actuarial value of assets as of July 1, 2026 was $3.729 billion. The estimated rate of return for the actuarial value of assets during FY 2026 was about 5.8%, which is below the investment return assumption of 7.5% and resulted in an actuarial loss of $59.6 million. The estimated rate of return on the market value of assets, net of investment expenses, was about 14.5%. As a result of favorable investment experience on a market value basis along with the scheduled recognition of the deferred investment experience in the actuarial value of assets, the net deferred loss of $90.6 million in last year's valuation has now become a net deferred gain of $201.9 million. Absent unfavorable investment experience, the deferred gain will be recognized over the next four years, improving the funded ratio and decreasing the actuarial required contribution rate.

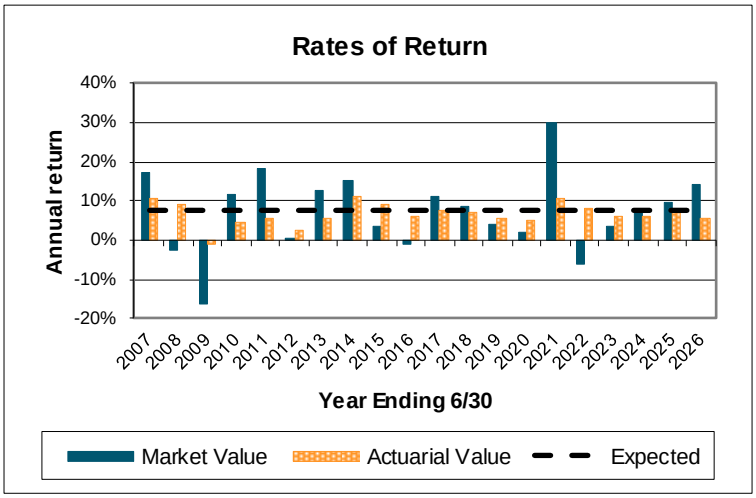
SECTION 1 – EXECUTIVE SUMMARY

The components of the change in the market and actuarial value of assets for the System are set forth below:

	Market Value $(millions)	Actuarial Value $(millions)
Net Assets, July 1, 2025	$3,450	$3,540
· Employer and Member Contributions	158	158
· Benefit Payments and Expenses	(175)	(175)
· Investment Income/(Loss)	498	206
Preliminary Value July 1, 2026	$3,931	$3,729
Application of Corridor	N/A	N/A
Final Net Assets, July 1, 2026	$3,931	$3,729
Estimated Rate of Return	14.5%	5.8%



While the market value of assets was generally close to the actuarial value over this period due to a combination of strong returns and systematic recognition of losses, the market value of assets is now greater than the actuarial value due to recent favorable returns.



Rates of return on the market value of assets are very volatile. The more stable return on the actuarial value of assets illustrates the advantage of using an asset smoothing method.

SYSTEM LIABILITIES

The actuarial accrued liability is that portion of the present value of future benefits that will not be paid by future normal costs. The difference between actuarial accrued liability and the actuarial value of assets is referred to as the unfunded actuarial accrued liability (UAAL). The UAAL will be reduced if the employer's contributions exceed the employer's normal cost for the year, after allowing for interest on the previous year's unfunded actuarial accrued liability. Benefit improvements, experience gains/losses, and changes in the actuarial assumptions and methods will also impact the total actuarial accrued liability and the unfunded portion thereof.

The unfunded actuarial accrued liability as of July 1, 2026 is:

Actuarial Accrued Liability	$3,883,760,000
Actuarial Value of Assets	3,728,927,000
Unfunded Actuarial Accrued Liability	$154,833,000

See Table 5 for the detailed development of the actuarial accrued liability and Table 8 for the calculation of the unfunded actuarial accrued liability.

Factors influencing the UAAL from year to year include scheduled amortization payments, actual experience versus expected based on the actuarial assumptions (both asset and liability), payments that differ from the Actuarially Required Contribution, changes in the actuarial assumptions, procedures or methods and changes in benefit provisions. The actual experience measured in this valuation is that which occurred during the plan year ending June 30, 2026. There was an experience loss on liabilities of $6.4 million as well as an experience loss on assets of $59.6 million.

Between July 1, 2025 and July 1, 2026 the change in the unfunded actuarial accrued liability for the System was as follows:

	$(millions)
Unfunded Actuarial Accrued Liability, July 1, 2025	$86.5
· expected decrease due to amortization method	(14.9)
· contributions above required	(26.6)
· investment experience	59.6
· liability experience[1]	6.4
· 2026 ad hoc COLA and stipend	49.2
· other experience	(5.4)
Unfunded Actuarial Accrued Liability, July 1, 2026	$154.8

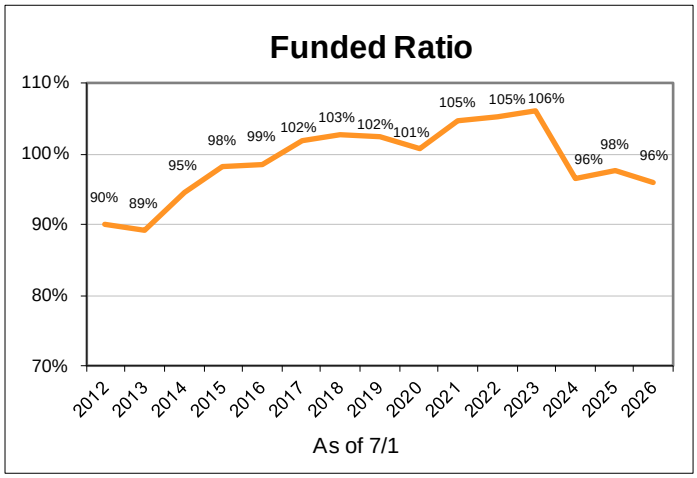
[1] Liability loss is about 0.2% of total expected actuarial accrued liability.

An evaluation of the unfunded actuarial accrued liability on a pure dollar basis may not provide a complete analysis because only the difference between the assets and liabilities (which are both

very large numbers) is reflected. Another way to evaluate the unfunded actuarial accrued liability and the progress made in its funding is to track the funded status, which is the ratio of the actuarial value of assets to the actuarial accrued liability. The funded ratio does not indicate whether or not the System could settle all of its liabilities, nor is it sufficient by itself to indicate the future funding requirements of the plan. The funded ratio does, however, provide one indication of the funding progress made to this point in time.

The funded status information, on both an actuarial and market value basis, is shown in the following table ($ in millions).

	7/1/21	7/1/22	7/1/23	7/1/24	7/1/25	7/1/26
Using Actuarial Value of Assets:						
Funded Ratio	104.6%	105.4%	106.1%	96.5%	97.6%	96.0%
Unfunded Actuarial Accrued Liability (UAAL)	($130)	($159)	($182)	$122	$87	$155
Using Market Value of Assets:						
Funded Ratio	117.1%	102.7%	101.0%	92.4%	95.1%	101.2%
Unfunded Actuarial Accrued Liability (UAAL)	($480)	($80)	($31)	$262	$177	($47)



Between 2012 and 2023, the funded ratio gradually improved from 90% to 106% due to the strong funding practices adopted by System and the State of Oklahoma. In 2024, the funded ratio decreased due to benefit improvements provided by legislation. Since then the funded ratio has remained below 100%.

CONTRIBUTION RATES

The funding objective of the System is for contributions to be at least sufficient to pay the normal cost rate plus an amount that will pay off the unfunded actuarial accrued liability over a rolling five-year period.

Under the Entry Age Normal cost method, the actuarial contribution rate consists of:

- A "normal cost" for the portion of projected liabilities allocated by the actuarial cost method to service of members during the year following the valuation date;
- An "administrative expense" component for the expenses expected to be paid from the trust for the year;

- An "unfunded actuarial accrued liability contribution" for the excess of the portion of projected liabilities allocated to service to date over the actuarial value of assets.

Contributions to the System are made by the members and their employers. Members not in the Deferred Option Plan (DOP) pay 9.00% of compensation. The employer rate is currently 14.00% of pay for active members and 7.00% of pay for members participating in the DOP. The remainder of the Total Required Contribution rate is the required State contribution rate. State contributions, which are 14.7% of the total state insurance premium tax revenue, are currently expected to exceed the remaining required contribution amount.

The actuarial required contribution rate in this year's valuation includes 24.1% for normal cost, 0.6% for budgeted expenses, and 7.6% for the amortization of the UAAL for a total of 32.3%. This represents a 3.0% increase from the July 1, 2025 actuarial required contribution rate of 29.3%. The sources of change are shown in the following table:

Total Actuarial Required Contribution Rate, July 1, 2025	29.3%
· change in normal cost rate	0.0%
· change due to amortization method	(1.1%)
· contributions above total required contribution	(1.3%)
· investment experience	2.9%
· liability experience	0.3%
· 2026 ad hoc COLA and stipend	2.4%
· other experience	(0.2%)
Total Actuarial Required Contribution Rate, July 1, 2026	32.3%

As shown in the table above, the two largest factors which contributed to the increase in the actuarial required contribution rate were unfavorable experience on the actuarial value of assets and the legislative changes which enhanced benefit payments for certain retirees and their beneficiaries. These factors were partially offset by contributions received by the System which exceeded the actuarial determined amount.

COMMENTS

As the graph at the bottom of page 4 shows, investment experience continues to be extremely volatile, which creates significant challenges when funding retirement systems. The estimated rate of return on the market value of assets, net of investment expenses, for FY 2026 was about 14.5%. The market value of assets currently exceeds the actuarial value of assets, resulting in a net deferred investment gain of $201.9 million. This deferred gain will be recognized over the next four years, improving the System's funded status and decreasing the actuarial required contribution rate, unless offset by unfavorable investment experience in those years.

SECTION 1 – EXECUTIVE SUMMARY

The required State contribution rate (above the member and employer contributions) in the 2026 valuation is 9.3%. Since actual state contributions have been around 12% of pay the last five years, the remaining actuarial required contribution amount is expected to be provided from this source. Assuming no substantive changes and actual experience being reasonably close to the actuarial assumptions, the System should continue to have adequate contributions for the foreseeable future.

SECTION 2 – SUMMARY OF RESULTS

For convenience of reference, the principal results of the valuation and a comparison with the preceding year's results are summarized below.

	7/1/2026 Valuation	7/1/2025 Valuation	% Change
1. PARTICIPANT DATA			
Number of:			
Active Members - Not vested	2,807	2,774	1.2
Active Members - Vested	2,453	2,325	5.5
Active Members Total	5,260	5,099	3.2
Retired and Disabled Members and Beneficiaries	4,545	4,524	0.5
Deferred Option Plan (DOP) Members	0	0	N/A
Inactive Members	1,349	1,346	0.2
Total members	11,154	10,969	1.7
Projected Annual Salaries of Active Members	$ 482,637,976	$ 451,181,801	7.0
Annual Retirement Payments for Retired Members, Disabled Members, and Beneficiaries	$ 163,090,956	$ 161,954,999	0.7
2. ASSETS AND LIABILITIES			
Total Actuarial Accrued Liability	$ 3,883,760,000	$ 3,626,858,000	7.1
Market Value of Assets	$ 3,930,834,000	$ 3,449,729,000	13.9
Actuarial Value of Assets	$ 3,728,927,000	$ 3,540,352,000	5.3
Unfunded Actuarial Accrued Liability	$ 154,833,000	$ 86,506,000	79.0
Funded Ratio (Actuarial Assets)	96.0%	97.6%	(1.6)
3. EMPLOYER CONTRIBUTION RATES AS A PERCENT OF PAYROLL			
Normal Cost Rate	24.1%	24.1%	0.0
Amortization of Unfunded Actuarial Accrued Liability	7.6%	4.6%	65.2
Budgeted Expenses	0.6%	0.6%	0.0
Total Actuarial Required Contribution Rate	32.3%	29.3%	10.2
Less Member Contribution Rate	(9.0%)	(9.0%)	0.0
Less Estimated Employer Contribution Rate	(14.0%)	(14.0%)	0.0
Required State Contribution Rate	9.3%	6.3%	47.6
Required State Contribution Amount	$ 44,886,000	$ 28,425,000	57.9

SECTION 3 – SCOPE OF THE REPORT

This report presents the actuarial valuation results of the Oklahoma Police Pension and Retirement System as of July 1, 2026. This valuation was prepared at the request of the Board of Trustees.

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

A summary of the findings which result from this valuation is presented in the previous section. Section 4 describes the assets and investment experience of the System. Sections 5 and 6 describe how the obligations of the System are to be met under the actuarial cost method in use. Section 7 includes risk considerations related to the Oklahoma Police Pension and Retirement System. Section 8 includes some historical funding and other information.

This report includes several appendices:

- Appendix A A summary of the current benefit structure, as determined by the provisions of governing law on July 1, 2026.
- Appendix B A summary of the actuarial methods and assumptions used to estimate liabilities and determine contribution rates.
- Appendix C Schedules of valuation data classified by various categories of members.
- Appendix D A glossary of actuarial terms.

SECTION 4 – ASSETS

Market Value of Assets

The current market value represents the "snapshot" or "cash-out" value of System assets as of the valuation date. In addition, market values of assets provide a basis for measuring investment performance from time to time. As of July 1, 2026, the market value of assets for the System was $3.931 billion. Table 1 is a comparison, at market values, of System assets as of June 30, 2026 and June 30, 2025 in total and by investment category. Table 2 summarizes the change in the market value of assets from July 1, 2025 to June 30, 2026.

Actuarial Value of Assets

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

To arrive at a suitable value for the actuarial valuation, a technique for determining the actuarial value of assets is used, which dampens swings in the market value while still indirectly recognizing market values.

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

- the expected market asset value is calculated as the sum of the previous year's market value increased with a year's interest at the System's valuation rate plus net cash flow adjusted for interest (at the same rate) to the end of the previous fiscal year;
- the difference between the expected market value and the actual market value is the investment gain or loss for the previous fiscal year;
- each year, 20% of the initial gain or loss for the past five fiscal years is recognized;
- the actuarial asset value is the market value less the unrecognized investment gains and losses for each of the five previous fiscal years, but neither more than 120% of the market value nor less than 80% of the market value.

Table 3 shows the development of the actuarial value of assets (AVA) as of the valuation date.

Table 1

Analysis of Net Assets at Market Value

	June 30, 2026		June 30, 2025	
	Amount $(millions)	% of Total	Amount $(millions)	% of Total
Cash & Short-term Investments	$ 108.4	2.8%	$ 70.5	2.0%
Receivables	20.5	0.5%	27.4	0.8%
U.S. Government Bonds	77.6	2.0%	55.5	1.6%
Corporate Bonds	625.1	15.9%	639.3	18.5%
Domestic Stock	1,296.3	32.9%	1,012.3	29.3%
International Stock	742.4	18.9%	615.2	17.8%
Private Equity	609.4	15.5%	558.8	16.2%
Hedge Funds	85.1	2.2%	84.0	2.4%
Real Estate	367.6	9.3%	392.2	11.4%
Subtotal	$ 3,932.4	100.0%	$ 3,455.2	100.0%
Net Receivables/(Payables)	(1.6)		(5.5)	
Net Assets	$ 3,930.8		$ 3,449.7	

Table 2

Statement of Changes in Net Assets

	Fiscal Year Ended June 30 2026	Fiscal Year Ended June 30 2025
1. Market Value of Net Assets at Beginning of Year	$ 3,449,729,000	$ 3,183,061,000
2. Contributions		
a. Members	$ 41,367,000	$ 35,128,000
b. Participating employers	64,133,000	56,052,000
c. Insurance premium tax	52,385,000	55,514,000
d. Total contributions	$ 157,885,000	$ 146,694,000
3. Net Investment Income		
a. Interest and dividends	$ 36,523,000	$ 37,643,000
b. Realized gain and unrealized appreciation	480,826,000	282,617,000
c. Other	991,000	852,000
d. Total	518,340,000	321,112,000
e. Investment expenses	(20,489,000)	(19,238,000)
f. Net investment income	$ 497,851,000	$ 301,874,000
4. Total Additions/(Subtractions) (2d) + (3f)	$ 655,736,000	$ 448,568,000
5. Deductions		
a. Retirement benefits	$ 163,557,000	$ 162,127,000
b. Deferred option benefits	4,919,000	14,352,000
c. Refunds of contributions	3,540,000	3,127,000
d. Administrative expenses	2,615,000	2,294,000
e. Total deductions	$ 174,631,000	$ 181,900,000
6. Net Change in Assets (4) - (5e)	481,105,000	266,668,000
7. Market Value of Net Assets at End of Year (1) + (6)	$ 3,930,834,000	$ 3,449,729,000
8. Estimated Rate of Return on Market Value of Assets	14.5%	9.5%

Table 3

Determination of Actuarial Value of Assets

1. Market Value as of July 1, 2025		$ 3,449,729,000
2. Contributions		$ 157,885,000
3. Decreases during year		
a. Benefit payments		$ (168,476,000)
b. Refunds of contributions		(3,540,000)
c. Administrative expenses		(2,615,000)
d. Total deductions		$ (174,631,000)
4. Expected return on assets at 7.5%		$ 258,113,000
5. Expected Market Value as of June 30, 2026	(1) + (2) + (3d) + (4)	$ 3,691,096,000
6. Actual Market Value as of June 30, 2026		$ 3,930,834,000
7. Year end 2026 asset gain/(loss)	(6) - (5)	$ 239,738,000

Schedule of Asset Gains/(Losses)

Year End	Original Amount	Recognized in Prior Years	Recognized in This Year	Recognized in Future Years
2022	$ (440,192,000)	$ (352,152,000)	$ (88,040,000)	$ 0
2023	(113,123,000)	(67,875,000)	(22,625,000)	(22,623,000)
2024	(14,814,000)	(5,926,000)	(2,963,000)	(5,925,000)
2025	64,441,000	12,888,000	12,888,000	38,665,000
2026	239,738,000	0	47,948,000	191,790,000
Total			$ (52,792,000)	$ 201,907,000

8. Asset gain/(loss) to be recognized in the future		$ 201,907,000
9. Initial Actuarial Value as of June 30, 2026	(6) - (8)	$ 3,728,927,000
10. Constraining values:		
a. 80% of market value	(6) x 0.8	$ 3,144,667,000
b. 120% of market value	(6) x 1.2	$ 4,717,001,000
11. Actuarial Value as of June 30, 2026 (9), but not less than (10a), nor greater than (10b), rounded		$ 3,728,927,000
12. Estimated Rate of Return on Actuarial Value of Assets		5.8%

SECTION 5 – SYSTEM LIABILITIES

In the previous section, an actuarial valuation was compared with an inventory process, and an analysis was given of the inventory of assets of the System as of the valuation date, July 1, 2026. In this section, the discussion will focus on the commitments of the System, which are referred to as its liabilities.

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

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

The actuarial assumptions used to determine liabilities are shown in Appendix B. The liabilities reflect the benefit structure in place as of July 1, 2026.

Actuarial Accrued Liabilities

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

(1) that which is attributable to the past; and
(2) that which is attributable to the future.

Actuarial terminology calls the part attributable to the past the "past service liability" or the "actuarial accrued liability". The portion allocated to the future is known as the "present value of future normal costs", with the specific piece of it allocated to the current year being called the "normal cost". Table 5 contains the calculation of actuarial accrued liabilities for all groups.

Table 4

Present Value of Future Benefits
As of July 1, 2026

		Total
1. Active Employees		
a. Retirement Benefit	$	3,055,087,000
b. Withdrawal Benefit		89,267,000
c. Pre-Retirement Death Benefit		47,307,000
d. Disability Benefit		16,034,000
e. Subtotal	$	3,207,695,000
2. Inactive Nonvested Members	$	6,167,000
3. Inactive Vested Members	$	32,160,000
4. Disabled Members	$	70,938,000
5. Retirees	$	1,376,095,000
6. Beneficiaries	$	248,821,000
7. DOP Members, Including DOP Balances	$	214,000
8. Total PVFB	$	4,942,090,000
Inactive Members Eligible for Automatic COLA	$	59,430,000
Inactive Members Not Eligible for Automatic COLA		1,674,965,000
Total Inactive Liability	$	1,734,395,000

Table 5

Actuarial Accrued Liability
As of July 1, 2026

	Total
1. Present Value of Future Benefits for Active Members	
a. Retirement Benefit	$ 3,055,087,000
b. Withdrawal Benefit	89,267,000
c. Pre-Retirement Death Benefit	47,307,000
d. Disability Benefit	16,034,000
e. Subtotal	$ 3,207,695,000
2. Present Value of Future Normal Costs for Active Members	
a. Retirement Benefit	$ 913,520,000
b. Withdrawal Benefit	96,905,000
c. Pre-Retirement Death Benefit	31,210,000
d. Disability Benefit	16,695,000
e. Subtotal	$ 1,058,330,000
3. Present Value of Future Benefits for Inactive Members	1,734,395,000
4. Total Actuarial Accrued Liability (1e) - (2e) + (3)	$ 3,883,760,000

Table 6

Calculation of Actuarial Gain/(Loss)

1. Expected Actuarial Accrued Liability		
a. Actuarial Accrued Liability at July 1, 2025	$	3,626,858,000
b. Normal Cost for FY 2026		100,088,000
c. Benefit Payments for Fiscal Year Ending June 30, 2026		(172,016,000)
d. Interest on (a), (b), and (c)		273,187,000
e. 2026 ad hoc COLA and Stipend		49,232,000
f. Expected Actuarial Accrued Liability as of July 1, 2026	$	3,877,349,000
2. Actuarial Accrued Liability at July 1, 2026	$	3,883,760,000
3. Actuarial Accrued Liability Gain/(Loss) (1f) - (2)	$	(6,411,000)
4. Expected Actuarial Value of Assets		
a. Actuarial Value of Assets at July 1, 2025	$	3,540,352,000
b. Contributions for Fiscal Year Ending June 30, 2026		157,885,000
c. Benefit Payments and Expenses for Fiscal Year Ending June 30, 2026		(174,631,000)
d. Interest on (a), (b), and (c)		264,910,000
e. Expected Actuarial Value of Assets as of July 1, 2026	$	3,788,516,000
5. Actuarial Value of Assets at July 1, 2026	$	3,728,927,000
6. Actuarial Value of Assets Gain/(Loss) (5) - (4e)	$	(59,589,000)
7. Net Actuarial Gain/(Loss) (3) + (6)	$	(66,000,000)

SECTION 6 – EMPLOYER CONTRIBUTIONS

In the previous two sections, attention has been focused on the assets and the liabilities (present value of future benefits) of the System. A comparison of Tables 3 and 4 indicates that there is a shortfall in current actuarial assets needed to meet the present value of all future benefits for current members and beneficiaries.

In an active system, it is typical for there to be a shortfall between the assets and the present value of all future benefits. An actuarial valuation determines a schedule of future contributions that will provide for this funding in an orderly fashion.

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

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

Description of Rate Components

The actuarial cost method used by the System is the traditional Entry Age Normal (EAN) – level-percent of pay cost method. Under the EAN cost method, the actuarial present value of each member's projected benefit is allocated on a level basis over the member's compensation between the entry age of the member and the assumed exit ages. The portion of the actuarial present value allocated to the valuation year is called the normal cost. The actuarial present value of benefits allocated to prior years of service is called the actuarial accrued liability. The unfunded actuarial accrued liability represents the difference between the actuarial accrued liability and the actuarial value of assets as of the valuation date. The unfunded actuarial accrued liability is calculated each year and reflects experience gains/losses. The UAAL is amortized as a level-dollar amount over an open five-year period, while a surplus is amortized over 30 years.

In our professional judgement the funding policy adopted by the Board of Trustees produces a reasonable actuarial required contribution as defined in Actuarial Standard of Practice Number 4. Contributions are developed with the intent of being reasonably level as a percentage of covered payroll, assuming the number of active members remains stable, balance cost among generations of members, and ensure adequate advance funding of benefits. Furthermore, the funding policy is expected to accumulate sufficient assets to make all future benefit payments as they become due, if all assumptions are met. This method also ensures that contributions exceed normal cost and amortization of the UAAL with interest.

SECTION 6 – EMPLOYER CONTRIBUTIONS

Contribution Rate Summary

The normal cost rate is developed in Table 7. Table 8 develops the contribution rate for amortization of the unfunded actuarial accrued liability. Table 9 develops the total actuarial contribution rate.

Table 7

Normal Cost Contribution Rates
As Percentages of Salary

		Total	% of Pay
1. Normal Cost			
a. Retirement Benefit	$	89,692,000	20.79%
b. Withdrawal Benefit		9,576,000	2.22%
c. Pre-Retirement Death Benefit		3,082,000	0.71%
d. Disability Benefit		1,666,000	0.39%
e. Total	$	104,016,000	24.11%
2. Estimated Payroll for Current Actives	$	431,363,000	
3. Normal Cost Rate (1e)/(2)		24.1%	

Table 8

Unfunded Actuarial Accrued Liability Contribution Rate

1. Actuarial Present Value of Future Benefits	$	4,942,090,000
2. Actuarial Present Value of Future Normal Costs		1,058,330,000
3. Actuarial Accrued Liability (1) - (2)	$	3,883,760,000
4. Actuarial Value of Assets		3,728,927,000
5. Unfunded Actuarial Accrued Liability (UAAL) (3) - (4)	$	154,833,000
6. Amortization of UAAL over 5 years (mid-year)*	$	36,910,000
7. Total Estimated Payroll for Year Ending June 30, 2027	$	482,638,000
8. Amortization as a Percent of Payroll		7.6%

*The UAAL is amortized as a level-dollar amount.

Table 9

Actuarial Contribution Rate

	Valuation as of July 1, 2026		Valuation as of July 1, 2025	
	Amount	Rate of Pay	Amount	Rate of Pay
1. Total Normal Cost*	$115,945,000	24.1%	$108,716,000	24.1%
2. Amortization of UAAL	36,910,000	7.6%	20,622,000	4.6%
3. Budgeted Expenses	3,037,000	0.6%	2,858,000	0.6%
4. Total Required Contribution	$155,892,000	32.3%	$132,196,000	29.3%
5. Member Contributions	43,437,000	9.0%	40,606,000	9.0%
6. Estimated Employer Contributions**	67,569,000	14.0%	63,165,000	14.0%
7. Required State Contribution (4) - (5) - (6) (not less than $0)	$44,886,000	9.3%	$28,425,000	6.3%
8. Prior Year Actual State Contributions Rate is percentage of prior year compensation	$52,385,000	11.6%	$55,514,000	13.0%

* Normal cost is typically determined as a rate of pay. Dollar amount shown is an estimate only.

**Determination of Employer Rate		
Active member projected payroll	482,637,976	451,181,801
Employer contribution rate	14.0%	14.0%
Estimated employer contributions	67,569,317	63,165,452
DOP member payroll	0	0
Employer contribution rate	7.0%	7.0%
Estimated employer contributions	0	0
Total contributions	67,569,317	63,165,452
As a percentage of total pay	14.0%	14.0%

Note: Due to rounding, there may be differences in addition or multiplication.

SECTION 7 – RISK CONSIDERATIONS

Actuarial Standards of Practice are issued by the Actuarial Standards Board and are binding on credentialed actuaries practicing in the United States. These standards generally identify what the actuary should consider, document and disclose when performing an actuarial assignment. In September, 2017, Actuarial Standard of Practice Number 51, *Assessment and Disclosure of Risk in Measuring Pension Obligations*, (ASOP 51) was issued as final with application to measurement dates on or after November 1, 2018. This ASOP, which applies to funding valuations, actuarial projections, and actuarial cost studies of proposed plan changes, was first applicable for the July 1, 2019 actuarial valuation for the Oklahoma Police Pension and Retirement System (System).

A typical retirement plan faces many different risks, but the greatest risk is the inability to make benefit payments when due. If plan assets are depleted, benefits may not be paid which could create legal and litigation risk or the plan could become "pay as you go". The term "risk" is most commonly associated with an outcome with undesirable results. However, in the actuarial world, risk can be translated as uncertainty. The actuarial valuation process uses many actuarial assumptions to project how future contributions and investment returns will meet the cash flow needs for future benefit payments. Of course, we know that actual experience will not unfold exactly as anticipated by the assumptions and that uncertainty, whether favorable or unfavorable, creates risk. ASOP 51 defines risk as the potential of actual future measurements to deviate from expected results due to actual experience that is different than the actuarial assumptions.

The various risk factors for a given plan can have a significant impact – positive or negative – on the actuarial projection of liability and contribution rates.

There are a number of risks inherent in the funding of a defined benefit plan. These include:

- economic risks, such as investment return and price inflation;
- demographic risks such as mortality, payroll growth, aging population including impact of baby boomers, and retirement ages;
- contribution risk, i.e., the potential for contribution rates to be inadequate to fund the plan; and
- external risks such as the regulatory and political environment.

There is a direct correlation between healthy, well-funded retirement plans and consistent contributions of at least the full actuarial contribution rate each year. The sources of funding for OPPRS do not guarantee that the full contributions will be made because they are not related to the funding method. Because of the System's funded status, the amounts are currently sufficient to fund the System's needs. There is a risk if the funded status declines moderately that the current contribution structure would not be able to return the System to being well-funded.

Another significant risk factor for OPPRS is investment return because of the volatility of returns and the size of plan assets compared to payroll (see Table 10). A perusal of historical returns over 10-20 years reveals that the actual return in any year is rarely close to the average return for the same period. This is to be expected, given the underlying capital market assumptions and the

System's asset allocation. There is also a risk that higher investment returns will increase the number of retirements, as members will be incented to retroactively join the Deferred Option Plan in order to earn the higher interest rates on their DOP account balances.

Under the revised Actuarial Standards of Practice (ASOP) No. 4 effective for valuations after February 15, 2023, we are required to include a low-default-risk obligation measure of the System's liability in our funding valuation report. This is an informational disclosure as described below and would not be appropriate for assessing the funding progress or health of the plan. This measure uses the unit credit cost method and reflects all the assumptions and provisions of the funding valuation except that the discount rate is derived from considering low-default-risk fixed income securities. We considered the FTSE Pension Discount Curve based on market bond rates published by the Society of Actuaries as of June 30, 2026 and with the 30-year spot rate used for all durations beyond 30. Using these assumptions, we calculate a liability of approximately $3.97 billion. This amount approximates the termination liability if the plan (or all covered employment) ended on the valuation date and all of the accrued benefits had to be paid with cash-flow matched bonds. This assurance of funded status and benefit security is typically more relevant for corporate plans than for governmental plans, since governments rarely have the need or option to completely terminate a plan.

A key demographic risk for all retirement systems, including OPPRS, is improvements in mortality (longevity) greater than anticipated. While the actuarial assumptions reflect small, continuous improvements in mortality experience over time and these assumptions are refined every experience study, the risk arises because there is a possibility of some sudden shift, perhaps from a significant medical breakthrough, that could quickly increase liabilities. Likewise, there is some possibility of a public health crisis that could result in a significant number of additional deaths in a short time period, as experienced with the COVID-19 pandemic. This type of event is also significant, although more easily absorbed. While either of these events could happen, it represents a small probability and thus represents much less risk than the volatility associated with investment returns.

The following exhibits summarize some historical information that helps indicate how certain key risk metrics have changed over time. Many are due to the maturing of the retirement system.

Table 10

Historical Asset Volatility Ratios

As a retirement system matures, the size of the market value of assets increases relative to the covered payroll of active members, on which the System is funded. The size of the plan assets relative to covered payroll, sometimes referred to as the asset volatility ratio, is an important indicator of the contribution risk for the System. The higher this ratio, the more sensitive a plan's contribution rate is to investment return volatility. In other words, it will be harder to recover from investment losses with increased contributions.

Actuarial Valuation Date	Market Value of Assets	Estimated Plan Year Payroll	Asset Volatility Ratio	Increase in ACR with a Return 10% Lower than Assumed*
6/30/2007	$1,797,555,000	$231,257,280	7.77	18.52%
6/30/2008	1,734,149,000	246,191,165	7.04	16.78%
6/30/2009	1,431,305,000	258,477,576	5.54	13.21%
6/30/2010	1,558,741,000	253,259,725	6.15	14.66%
6/30/2011	1,811,460,000	257,504,567	7.03	16.76%
6/30/2012	1,784,760,000	266,038,359	6.71	16.00%
6/30/2013	1,976,839,000	279,013,522	7.09	16.90%
6/30/2014	2,238,466,000	289,502,327	7.73	18.43%
6/30/2015	2,264,996,000	295,307,065	7.67	18.28%
6/30/2016	2,201,671,000	314,557,000	7.00	16.69%
6/30/2017	2,395,381,000	314,374,000	7.62	18.17%
6/30/2018	2,563,446,000	324,190,000	7.91	18.86%
6/30/2019	2,618,857,000	339,854,000	7.71	18.38%
6/30/2020	2,621,311,000	351,644,000	7.45	17.76%
6/30/2021	3,289,959,000	350,669,000	9.38	22.36%
6/30/2022	3,008,967,000	364,521,000	8.25	19.67%
6/30/2023	3,023,309,000	387,098,000	7.81	18.62%
6/30/2024	3,183,061,000	427,286,000	7.45	17.76%
6/30/2025	3,449,729,000	451,182,000	7.65	18.24%
6/30/2026	3,930,834,000	482,638,000	8.14	19.40%

Note: Years prior to the 6/30/2016 were provided by the prior actuary.

* The impact of asset smoothing is not reflected in the impact on the Actuarial Contribution Rate (ACR). The increase in the ACR is based on the five-year amortization that would apply if the System funded ratio was below 100%. Current year assumptions are used for all years shown.

The assets at June 30, 2026 are 814% of payroll, so underperforming the investment return assumption by 10.00% (i.e., earn -2.50% for one year) is equivalent to 81.4% of payroll. While the actual impact in the first year is mitigated by the asset smoothing method and amortization of the UAAL, this illustrates the risk associated with volatile investment returns. Such an event in one year would be expected to increase the actuarial contribution rate by 19.40% of payroll once it is fully recognized in the asset smoothing method.

Table 11

Historical Cash Flows

Plans with negative cash flows will experience increased sensitivity to investment return volatility. Cash flows, for this purpose, are measured as contributions less benefit payments. If the System has negative cash flows and then experiences returns below the assumed rate, there are fewer assets to be reinvested to earn the higher returns that typically follow. While any negative cash flow will produce such a result, it is typically a negative cash flow of more than 5% of MVA that may cause significant concerns. OPPRS has had negative cash flows of around 1% to 3% for many years, and there is no concern for the foreseeable future.

Year End	Market Value of Assets (MVA)	Contributions	Benefit Payments	Net Cash Flow	Net Cash Flow as a Percent of MVA
6/30/2007	$1,797,555,000	$73,098,000	$92,426,000	($19,328,000)	(1.08%)
6/30/2008	1,734,149,000	74,078,000	94,097,000	(20,019,000)	(1.15%)
6/30/2009	1,431,305,000	77,727,000	97,052,000	(19,325,000)	(1.35%)
6/30/2010	1,558,741,000	74,158,000	111,440,000	(37,282,000)	(2.39%)
6/30/2011	1,811,460,000	75,980,000	105,566,000	(29,586,000)	(1.63%)
6/30/2012	1,784,760,000	81,101,000	116,175,000	(35,074,000)	(1.97%)
6/30/2013	1,976,839,000	87,575,000	116,670,000	(29,095,000)	(1.47%)
6/30/2014	2,238,466,000	89,007,000	121,103,000	(32,096,000)	(1.43%)
6/30/2015	2,264,996,000	95,618,000	143,642,000	(48,024,000)	(2.12%)
6/30/2016	2,201,671,000	98,235,000	140,456,000	(42,221,000)	(1.92%)
6/30/2017	2,395,381,000	97,086,000	145,791,000	(48,705,000)	(2.03%)
6/30/2018	2,563,446,000	103,910,000	141,284,000	(37,374,000)	(1.46%)
6/30/2019	2,618,857,000	107,886,000	157,357,000	(49,471,000)	(1.89%)
6/30/2020	2,621,311,000	111,831,000	165,185,000	(53,354,000)	(2.04%)
6/30/2021	3,289,959,000	100,719,000	202,202,000	(101,483,000)	(3.08%)
6/30/2022	3,008,967,000	115,068,000	199,506,000	(84,438,000)	(2.81%)
6/30/2023	3,023,309,000	124,350,000	219,070,000	(94,720,000)	(3.13%)
6/30/2024	3,183,061,000	139,819,000	190,148,000	(50,329,000)	(1.58%)
6/30/2025	3,449,729,000	146,694,000	181,900,000	(35,206,000)	(1.02%)
6/30/2026	3,930,834,000	157,885,000	174,631,000	(16,746,000)	(0.43%)

Note: Years prior to the 6/30/2016 were provided by the prior actuary.

Table 12

Liability Maturity Measurement

Most public sector retirement systems have been in operation for many years. As a result, they have aging plan populations, and in some cases declining active populations, resulting in an increasing ratio of retirees to active members and a growing percentage of retiree liability. With more of the total liability residing with retirees, investment volatility has a greater impact on the funding of the System since it is more difficult to restore the System financially after losses occur when there is comparatively less payroll over which to spread costs. OPPRS, however, has not experienced these issues in any significant way.

Projections provide the most effective way of analyzing the impact of these changes on future funding measures, but studying several key metrics from the valuation can also provide some valuable insight.

Year End	Retiree Liability (a)	Total Actuarial Accrued Liability (b)	Retiree Percentage (a) / (b)
6/30/2007	$1,059,888,219	$2,035,653,471	52.1%
6/30/2008	1,066,491,872	2,132,175,698	50.0%
6/30/2009	1,091,714,246	2,253,133,775	48.5%
6/30/2010	1,151,235,873	2,341,619,152	49.2%
6/30/2011	979,617,905	1,959,976,006	50.0%
6/30/2012	1,006,325,630	2,034,485,171	49.5%
6/30/2013	1,058,739,933	2,131,172,172	49.7%
6/30/2014	1,081,453,586	2,204,797,154	49.1%
6/30/2015	1,132,081,248	2,269,073,426	49.9%
6/30/2016	1,155,632,000	2,354,815,000	49.1%
6/30/2017	1,193,676,000	2,403,073,000	49.7%
6/30/2018	1,225,406,000	2,515,811,000	48.7%
6/30/2019	1,266,287,000	2,612,473,000	48.5%
6/30/2020	1,355,153,000	2,736,156,000	49.5%
6/30/2021	1,458,644,000	2,810,243,000	51.9%
6/30/2022	1,532,968,000	2,928,775,000	52.3%
6/30/2023	1,595,810,000	2,992,769,000	53.3%
6/30/2024	1,632,666,000	3,444,986,000	47.4%
6/30/2025	1,647,596,000	3,626,858,000	45.4%
6/30/2026	1,695,854,000	3,883,760,000	43.7%

Note: Years prior to the 6/30/2016 were provided by the prior actuary.
Retiree Liability does not include liability for DOP members.

Table 13

Historical Member Statistics

Valuation Date June 30,	Number of Active	Number of Retired*	Active/ Retired
2007	4,247	2,650	1.60
2008	4,453	2,719	1.64
2009	4,497	2,785	1.61
2010	4,305	2,993	1.44
2011	4,368	3,060	1.43
2012	4,441	3,148	1.41
2013	4,467	3,239	1.38
2014	4,557	3,320	1.37
2015	4,570	3,448	1.33
2016	4,679	3,550	1.32
2017	4,695	3,658	1.28
2018	4,791	3,720	1.29
2019	4,902	3,815	1.28
2020	4,990	3,912	1.28
2021	4,920	4,082	1.21
2022	4,833	4,241	1.14
2023	4,868	4,401	1.11
2024	5,046	4,484	1.13
2025	5,099	4,524	1.13
2026	5,260	4,545	1.16

**DOP members are not included for this analysis.*
Note: Years prior to 6/30/2016 were provided by prior actuary.

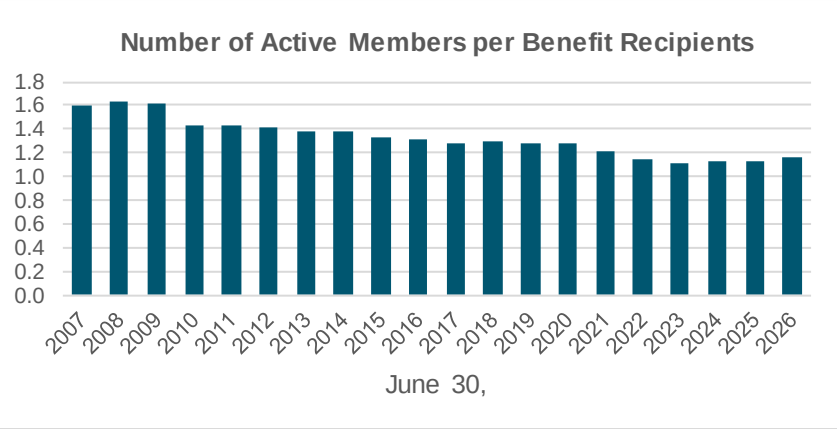


Table 14

Comparison of Valuation Results under Alternate Investment Return Assumptions
($ in Thousands)

This exhibit compares the key July 1, 2026 valuation results under five different investment return assumptions to illustrate the impact of different assumptions on the funding of the System. Note that only the investment return assumption is changed, as identified in the heading below. All other assumptions are unchanged for purposes of this analysis.

Investment Return Assumption	**7.00%**	**7.25%**	**7.50%**	**7.75%**	**8.00%**
Contributions					
Normal Cost Rate	26.7%	25.4%	24.1%	22.9%	21.8%
Amortization of Unfunded Actuarial Accrued Liability	17.2%	12.4%	7.6%	3.1%	(0.5%)
Budgeted Expenses	0.6%	0.6%	0.6%	0.6%	0.6%
Total Actuarial Required Contribution Rate	44.5%	38.4%	32.3%	26.6%	21.9%
Less Member Contribution Rate	(9.0%)	(9.0%)	(9.0%)	(9.0%)	(9.0%)
Less Estimated Employer Contribution Rate	(14.0%)	(14.0%)	(14.0%)	(14.0%)	(14.0%)
Required State Contribution Rate	21.5%	15.4%	9.3%	3.6%	0.0%
Required State Contribution Amount	$103,768	$74,327	$44,886	$17,376	$0
Actuarial Accrued Liabilities	$4,081,383	$3,980,468	$3,883,760	$3,791,030	$3,702,064
Actuarial Value of Assets	(3,728,927)	(3,728,927)	(3,728,927)	(3,728,927)	(3,728,927)
Unfunded Actuarial Accrued Liabilities	$352,456	$251,541	$154,833	$62,103	($26,863)
Funded Ratio	91.4%	93.7%	96.0%	98.4%	100.7%

Note: All other assumptions are unchanged for purposes of this sensitivity analysis.

SECTION 8 – OTHER INFORMATION

In this section we have an exhibit showing the expected benefit payments for the System, an exhibit showing the Present Value of Accrued Benefits, and some historical information.

Table 15

Projected Benefit Payments

The table below shows estimated benefits expected to be paid over the next twenty years, based on the assumptions used in this valuation. The "Actives" column shows benefits expected to be paid to members currently active on July 1, 2026. The "Inactives" column shows benefits as of July 1, 2026, expected to be paid to all members receiving benefit payments or to members who have terminated employment and are entitled to a deferred vested benefit.

Retirement, Survivor and Withdrawal Benefits

Year Ending June 30	Actives	Inactives	Total
2027	$ 179,002,000	$ 168,965,000	$ 347,967,000
2028	98,203,000	164,582,000	262,785,000
2029	103,210,000	164,401,000	267,611,000
2030	116,582,000	162,201,000	278,783,000
2031	129,597,000	159,788,000	289,385,000
2032	136,822,000	157,022,000	293,844,000
2033	152,506,000	153,999,000	306,505,000
2034	161,335,000	150,789,000	312,124,000
2035	175,493,000	147,406,000	322,899,000
2036	180,624,000	143,839,000	324,463,000
2037	195,143,000	140,148,000	335,291,000
2038	213,793,000	136,237,000	350,030,000
2039	221,502,000	132,202,000	353,704,000
2040	245,207,000	128,077,000	373,284,000
2041	265,963,000	123,762,000	389,725,000
2042	280,246,000	119,336,000	399,582,000
2043	304,124,000	114,817,000	418,941,000
2044	327,105,000	110,189,000	437,294,000
2045	347,503,000	105,487,000	452,990,000
2046	364,780,000	100,732,000	465,512,000

Table 16

Present Value of Accumulated System Benefits

The actuarial present value of accumulated vested and non-vested system benefits was computed on an ongoing System basis to provide information that generally complies with FASB Accounting Standards Codification (ASC 960). While ASC 960 is not directly applicable to public retirement systems, the information is included to allow for historical comparisons.

In this calculation, the benefits valued are based on the present salary and service information for each member. Eligibility for retirement and other future benefits takes into consideration future service as assumed by the System's demographic assumptions. The liabilities presented here may not be appropriate to reflect the settlement obligations of the System, nor are they necessarily appropriate for information regarding the funding of the System.

	July 1, 2026	July 1, 2025
Accumulated System Benefits		
Vested Benefits		
a. Active Members	$1,402,480,000	$1,225,035,000
b. Deferred Option Plan Members	214,000	190,000
c. Vested Terminated Members	32,160,000	33,661,000
d. Members Receiving Benefits	1,695,854,000	1,647,596,000
e. Total Vested Benefits	$3,130,708,000	$2,906,482,000
Non-vested Benefits	440,891,000	407,865,000
Total Accumulated System Benefits (PVAB)	$3,571,599,000	$3,314,347,000
Market Value of Assets Available for Benefits (MVA)	$3,930,834,000	$3,449,729,000
Funded Ratio (MVA / PVAB)	110.1%	104.1%
Assumed Rate of Interest	7.50%	7.50%

Table 17

Historical Investment Returns

Historical asset return information may be useful in explaining the current funded status of the System.

FYE	Actuarial Value			Market Value		
June 30	Annual	Cumulative	10 Years	Annual	Cumulative	10 Years
1997	12.8%	12.8%		17.3%	17.3%	
1998	13.5%	13.1%		16.9%	17.1%	
1999	14.3%	13.5%		9.7%	14.6%	
2000	12.8%	13.3%		8.7%	13.1%	
2001	8.8%	12.4%		(5.3%)	9.1%	
2002	4.9%	11.1%		(5.6%)	6.5%	
2003	2.7%	9.9%		3.5%	6.1%	
2004	3.3%	9.0%		15.0%	7.2%	
2005	3.0%	8.4%		8.7%	7.3%	
2006	6.1%	8.1%	8.1%	11.0%	7.7%	7.7%
2007	10.6%	8.3%	7.9%	17.3%	8.5%	7.7%
2008	8.9%	8.4%	7.5%	(2.4%)	7.6%	5.8%
2009	(0.9%)	7.6%	5.9%	(16.4%)	5.5%	2.9%
2010	4.4%	7.4%	5.1%	11.7%	5.9%	3.2%
2011	5.6%	7.3%	4.8%	18.3%	6.7%	5.5%
2012	2.6%	7.0%	4.6%	0.5%	6.3%	6.2%
2013	5.4%	6.9%	4.9%	12.5%	6.7%	7.1%
2014	11.4%	7.1%	5.6%	15.0%	7.1%	7.1%
2015	9.3%	7.3%	6.3%	3.4%	6.9%	6.6%
2016	6.2%	7.2%	6.3%	(0.9%)	6.5%	5.4%
2017	7.5%	7.2%	6.0%	11.1%	6.7%	4.8%
2018	7.3%	7.2%	5.8%	8.6%	6.8%	5.9%
2019	5.5%	7.1%	6.5%	4.1%	6.7%	8.3%
2020	5.0%	7.1%	6.6%	2.2%	6.5%	7.3%
2021	10.5%	7.2%	7.0%	30.0%	7.4%	8.3%
2022	8.0%	7.2%	7.6%	(6.1%)	6.8%	7.6%
2023	6.0%	7.2%	7.6%	3.7%	6.7%	6.7%
2024	6.3%	7.1%	7.1%	7.0%	6.7%	6.0%
2025	7.6%	7.2%	7.0%	9.5%	6.8%	6.6%
2026	5.8%	7.1%	6.9%	14.5%	7.0%	8.1%

Note: Returns prior to 2016 were prepared by the prior actuary.

Table 18

Solvency Test

Valuation Year	Aggregate Accrued Liabilities For (1) Active Member Contributions	(2) Retirees and Beneficiaries	(3) Active and Terminated Vested Members (Employer Financed Portion)	Valuation Assets	Portion of Accrued Liabilities Covered by Assets (1)	(2)	(3)
2010	$174,025,925	$1,111,074,787	$1,056,518,440	$1,754,372,000	100%	100%	44.4%
2011	184,781,373	944,081,922	831,112,711	1,822,702,000	100	100	83.5
2012	189,459,953	983,507,261	861,517,957	1,834,170,000	100	100	76.7
2013	199,233,453	1,037,456,527	894,482,192	1,902,581,000	100	100	74.4
2014	209,576,572	1,057,853,545	937,367,037	2,086,297,000	100	100	87.4
2015	214,685,883	1,112,855,884	941,531,659	2,229,272,000	100	100	95.8
2016	223,255,000	1,176,401,000	955,159,000	2,323,407,000	100	100	96.7
2017	238,151,000	1,193,676,000	971,246,000	2,447,351,000	100	100	104.6
2018	245,909,000	1,225,406,000	1,044,496,000	2,586,061,000	100	100	106.7
2019	251,559,000	1,266,287,000	1,094,627,000	2,677,255,000	100	100	105.9
2020	258,774,000	1,358,154,000	1,119,228,000	2,756,877,000	100	100	101.9
2021	257,254,000	1,461,095,000	1,091,894,000	2,940,118,000	100	100	111.9
2022	258,472,000	1,535,311,000	1,134,992,000	3,087,329,000	100	100	114.0
2023	257,811,000	1,598,081,000	1,136,877,000	3,174,746,000	100	100	116.0
2024	273,490,000	1,633,825,000	1,537,671,000	3,323,410,000	100	100	92.1
2025	295,664,000	1,647,786,000	1,683,408,000	3,540,352,000	100	100	94.9
2026	327,210,000	1,696,068,000	1,860,482,000	3,728,927,000	100	100	91.7

APPENDIX A – SUMMARY OF SYSTEM PROVISIONS

Effective Date and Plan Year: The System became effective July 1, 1981 and has been amended periodically since then. The plan year is July 1 to June 30.

Administration: The System is administered by the Oklahoma Police Pension Retirement Board consisting of thirteen members. The Board shall be responsible for the policies and rules for the general administration of the System.

Plan Type: Defined benefit plan.

Employers Included: An eligible employer may join the System on the first day of any month. An application of affiliation must be filed in the form of a resolution before the eligible municipality can become a participating municipality.

Eligibility: All persons employed full-time as officers working more than 25 hours per week or any person undergoing police training to become a permanent police officer with a police department of a participating municipality, with ages not less than twenty-one (21) nor more than forty-five (45) when accepting membership.

Salary Considered: Base salary used in the determination of benefits does not include payment for accumulated sick and annual leave upon termination of employment or any uniform allowances.

Final Average Salary: Final average salary means the average paid base salary for normally scheduled hours of an officer over the highest 30 consecutive months of the last 60 months of credited service.

Service Considered: Credited service consists of the period during which the member participated in the System or predecessor municipal pay as an active employee, plus any service prior to the establishment of the municipal plan which was credited under the predecessor municipal systems of credited service granted by the State Board, plus any applicable military service.

State Contributions: Insurance premium tax allocation. Historically, the System has received 14% of these collected taxes. For FY 2005 through FY 2009, the System received 17% of these collected taxes. For the period beginning July 1, 2009 and

ending August 31, 2020, the System received 14% of these collected taxes. For the period beginning September 1, 2020 through June 30, 2021, the System received 9.8% of these collected taxes. For FY 2022, the System received 14% of these collected taxes. For FY 2023 through FY 2027, 14.7% of the taxes collected will be allocated to the System. For the following fiscal years, 14% of the taxes collected will be allocated to the System.

Beginning in FY 2006, the System began receiving 26% of a special allocation established to refund the System for reduced allocations of insurance premium taxes resulting from increases in insurance premium tax credits. For the period beginning September 1, 2020 through June 30, 2021, the System received 18.2% of the insurance premium tax allocation. For FY 2022 and thereafter, the System will receive 26% of the insurance premium tax allocation. Beginning in fiscal year July 1, 2010, the amount of insurance premium tax apportioned to the System will be applied prior to the calculation of the Home Office Credit.

In addition to these allocations, the System will receive $16,250 annually for FY 2023 through FY 2027.

Member Contributions: 8% of paid salary prior to July 1, 2025 and 9% of paid salary thereafter. These contributions shall "be picked up" after December 31, 1988 pursuant to Section 414(h)(2) of the Internal Revenue Code.

Municipality Contributions: Contribution is 13% of paid salary as of July 1, 1996 and 14% of paid salary as of July 1, 2025.

Normal Retirement Benefit:

Normal Retirement Eligibility: 20 years of credited service.

Benefit Amount: 2 1/2% of the final average salary multiplied by the years of credited service, with a maximum of 30 years of credited service considered.

	For members who retire on or after July 1, 2026 with at least 25 years of credited service, members who retire on or after July 1, 2027 with at least 20 years of credited service, and members who retire on or after July 1, 2030, the benefit amount is equal to 3% of the final average salary multiplied by the years of credited service, with a maximum of 30 years of credited service considered.
Normal Form of Benefit:	The benefit is paid as a Joint and 100% Survivor Annuity if the member was married 30 months prior to death.
Termination Benefit:	
Less than 10 Years of Service:	Refund of member contributions without interest.
More than 10 Years of Service:	If greater than 10 years of service, but not eligible for the normal retirement benefit, the benefit is payable at the later of the date the member would have had 20 years of service and the date the member reaches age 50. For members who terminate prior to July 1, 2030, the benefit amount is equal to 2 1/2% of the greater of (i) final average salary or (ii) the salary paid to active employees as described under "salary considered" multiplied by the years and completed months of credited service. For members who terminate on or after July 1, 2030, the benefit amount is equal to 3% of the greater of (i) final average salary or (ii) the salary paid to active employees as described under "salary considered" multiplied by the years and completed months of credited service.
Disability Benefit (Duty):	<u>Total Disability</u> Upon determination of disability incurred as a result of the performance of duty, the normal disability benefit is 50% of final average salary for benefits computed prior to July 1, 2025. For benefits computed on or after July 1, 2025, the normal disability benefit is 60% of final average salary.

Partial Disability

Upon determination of partial disability incurred as a result of the performance of duty, the normal disability is reduced according to the percentage of impairment, as outlined in the "American Medical Association's Guide to the Evaluation of Permanent Impairment." The following shows the percent of normal disability benefit payable as related to the percent of impairment.

% Impairment	% of Benefit
1% to 49%	50%
50% to 74%	75%
75% to 100%	100%

Effective November 1, 2022, all future duty-related disabilities will be treated as if the member has 100% impairment.

Disability Benefit (Non-Duty):

Upon determination of disability after 10 years of service due to causes other than duty, the benefit equals the accrued benefit of 2 ½% of final average salary for benefits computed prior to July 1, 2030 or 3% of final average salary for benefits computed on or after July 1, 2030 times years of credited service (maximum of 30 years) times:

- 100%, if permanent and total, or
- The following percentages, if partial disability:

% Impairment	% of Benefit
1% to 24%	25%
25% to 49%	50%
50% to 74%	75%
75% to 99%	90%

Upon determination of disability with less than 10 years of service due to causes other than duty, a refund of member contributions without interest will be paid.

Death Benefits Payable to Beneficiaries:

Prior to Retirement (Duty):	Prior to July 1, 2025, the greater of: 1) 2 ½% of final average salary times years of credited service (maximum of 30 years), or 2) 50% of final average salary. After July 1, 2025, the benefit is equal to the greater of: 1) 3% of final average salary times years of credited service (maximum of 30 years), or 2) 60% of final average salary.
Prior to Retirement (Non-Duty):	After 10 years of service, a benefit equal to 2 ½% of final average salary times years of credited service (maximum if 30 years) for benefits computed prior to July 1, 2030. For benefits computed on or after July 1, 2030, the benefit amount is equal to 3% of the final average salary times years of credited service (maximum of 30 years). Prior to 10 years of service, a refund of the accumulated contributions made by the member will be paid to the estate.
After Retirement or Vested Termination:	100% of the member's retirement or deferred vested benefit, payable when the member would have been eligible to receive it, payable to the beneficiary.
Lump Sum:	The beneficiary shall receive a lump-sum amount of $5,000.
Beneficiary Eligibility:	Surviving spouses must be married to the member 30 months prior to the date of death (waived in the case of duty related death). If the beneficiary is a child, the benefits are payable to age 18, or to age 22 if a full-time student. If the beneficiary is a spouse to whom the member was married for at least 30 months prior to death, if the death was not duty related, the benefits are payable for life.

Postretirement Adjustments:

Police officers eligible to receive increased benefits according to repealed Section 50-120 of Title 11 of the Oklahoma Statutes pursuant to a court order receive an adjustment of ⅓ or ½ of the increase or decrease of any adjustment to the base salary of a regular police officer.

Deferred Option Plan:

A member with 20 or more years of service may elect to participate in the Deferred Option Plan (DOP). Participation in the DOP shall not exceed five years. The member's contributions cease upon entering the DOP, but the agency contributions are divided equally between the Retirement System and Deferred Option Plan. The monthly retirement benefits that the member is eligible to receive are paid into the Deferred Option Plan account.

Members can elect to retroactively join the DOP as of a back-DOP-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 DOP are credited to the member's DOP account with interest.

The retirement benefits are not recalculated for service and salary earned after the election date to join the Deferred Option Plan. However, the benefits are increased by cost-of-living increases applicable to retired members during the DOP period.

When the member actually terminates employment, the Deferred Option Plan 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.

This Plan became effective during the July 1, 1991 to June 30, 1992 Plan Year. The Deferred Option Plan account is guaranteed a minimum of the valuation interest rate for investment return, or 2% less than the fund rate of return, if greater.

Actuarial Cost Method

Liabilities and contributions shown in this report are computed using the Individual Entry Age method of funding. Sometimes called the "funding method," this is a particular technique used by actuaries for establishing the amount of the annual actuarial cost of pension benefits, or normal cost, and the related unfunded actuarial accrued liability. Ordinarily the annual contribution to the System 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 System had it 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 System.

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 System assets on the valuation date.

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

Asset Valuation Method

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

- at the beginning of each fiscal 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 fiscal 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 fiscal year;

- the difference between the expected actuarial asset value and the market value is the investment gain or loss for the previous year;

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

Amortization Method

The unfunded actuarial accrued liability is amortized as a level dollar amount over a five-year open period. Surplus, if any, is amortized as a level dollar amount over a 30-year open period.

Valuation Procedures

The wages used in the projection of benefits and liabilities are pay for the year ending June 30, 2026 (including longevity bonuses). These amounts were projected into the valuation year using the valuation salary scale.

In computing accrued benefits, average earnings were determined using the valuation salary scale. Historical earnings for the past five years have been retained.

Retired members were assumed to be married according to the probability of marriage assumption. For those in the Baker group, the assumption is 100% married.

The impact of the compensation limit under IRC Section 401(a)(17) and from the dollar limitation required by the Internal Revenue Code Section 415 for governmental plans were considered in this valuation and was determined to be *de minimis*.

The calculations for the required state contribution are determined as of mid-year. Since the agency contributions, member contributions and State insurance premium tax allocations are made on a monthly basis throughout the year, a mid-year determination date represents an average weighting of the contributions.

APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

The assumptions and methods used in the valuation are based on the results of the experience study for the five-year period ending June 30, 2022, dated April 13, 2023, and adopted by the Board at their April 19, 2023 meeting. The combined effect of the assumptions is expected to have no significant bias. There were no changes to the assumptions or methods in this valuation.

Economic Assumptions

1. Inflation — 2.75%, per annum, compound annually

2. Investment Return — 7.50%, net of investment expenses, per annum, compounded annually.

3. Salary Scale — Sample rates are shown below:

Attained Service	Wage Inflation %	Merit %	Increase %
0	3.50	8.50	12.00
1	3.50	6.50	10.00
2	3.50	5.50	9.00
3	3.50	4.50	8.00
4-6	3.50	4.00	7.50
7	3.50	3.75	7.25
8	3.50	3.50	7.00
9	3.50	3.25	6.75
10	3.50	3.00	6.50
11	3.50	2.75	6.25
12	3.50	2.50	6.00
13	3.50	2.00	5.50
14	3.50	1.50	5.00
15	3.50	1.00	4.50
16	3.50	0.50	4.00
17-25	3.50	0.25	3.75
26+	3.50	0.00	3.50

Demographic Assumptions

1. Retirement Rates

Rates are shown below:

Age	Annual Rates of Retirement for Years Ending June 30,		
	2025-2026	2027	Thereafter
40-45	0%	15%	5%
46-55	5%	20%	10%
56	10%	25%	15%
57-58	15%	30%	20%
59-60	20%	35%	25%
61-63	25%	40%	30%
64-66	35%	50%	40%
67+	100%	100%	100%

100% retirement with 35 or more years of service.

2. Mortality Rates

(a) Active and Inactive Vested Members

PubS-2010 Employee (Below Median) Mortality Table with rates set forward two years and projected generationally using SOA Scale MP-2021.

(b) Healthy Retirees

PubS-2010 Healthy Retiree (Below Median) Mortality Table with rates set forward two years and projected generationally using SOA Scale MP-2021.

(c) Beneficiaries

Pub-2010 Contingent Survivor (Below Median) Mortality Table with rates set forward two years and projected generationally using SOA Scale MP-2021.

(c) Disabled Retirees

PubS-2010 Disabled Retiree Mortality Table with rates projected to 2023 using SOA Scale MP-2021.

3. Disability Rates

Sample rates are shown below:

Age	Rate
20-24	0.022%
25-29	0.022%
30-34	0.044%
35-39	0.066%
40-44	0.088%
45-49	0.110%
50-54	0.132%
55-59	0.154%

No disabilities are assumed after a member attains retirement eligibility. 100% of disabilities are assumed to be duty-related.

4. Withdrawal Rates

Sample rates are shown below:

Service Range	Rate
0	15.0%
1	12.0
2	10.0
3	8.0
4	7.0
5	6.0
6	5.0
7	4.5
8	4.0
9	3.5
10	3.0
11	2.5
12	2.0
13	1.5
14-20	1.0
Over 20	0.0

5. Marital Status

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

(b) Age difference: Males are assumed to be three (3) years older than females.

(c) Eligible children	Deceased active members are not assumed to leave behind any eligible children.

Other Assumptions:

1. Deferred Benefits Begin at:	Age 50, or the date at which the participant would have achieved 20 years of service, if later.
2. Provision for Expenses:	Administrative Expenses, as budgeted by the Oklahoma Police Pension and Retirement System.
3. Percentage of Disability:	Members becoming disabled have a 100% impairment.
4. Duty-Related Death:	All pre-retirement deaths are duty-related.
5. Cost-of-Living Allowance:	Police officers eligible to receive increased benefits according to repealed Section 50-120 of Title 11 of the Oklahoma Statutes pursuant to a court order receive an adjustment of 1/3 to 1/2 of the increase or decrease of any adjustment to the base salary of a regular police officer, based on an increase in base salary of 3.5% (wage inflation).
6. Deferred Option Plan:	Members currently participating in the Deferred Option Plan (DOP) are assumed to remain in the DOP for the maximum of five years. Active members leaving active service are assumed to retroactively elect to join the DOP for the maximum allowable period. DOP account balances are assumed to accumulate at 11% (to reflect the interest rate guarantee prior to retirement) for future BackDOP elections and members are assumed to elect a lump sum at retirement. All balances held in Deferred Option payout accounts are assumed to be paid immediately upon the end of employment.

Member Data Reconciliation

	Active Members	Terminated Refund Due	Terminated Deferred	DOP Members	Retirees	Disability Retirees	Beneficiaries	Total Members
As of July 1, 2025	5,099	1,150	196	0	3,298	191	1,035	10,969
New Participants	461	61	0	0	0	0	11	533
Terminations								
- Refunded	(146)	(132)	(3)	0	0	0	0	(281)
- Refund Due	(123)	123	0	0	0	0	0	0
- Deferred Benefit	(16)	0	16	0	0	0	0	0
Retirements								
- Disability	(13)	0	(1)	0	0	14	0	0
- Deferred Option Plan	0	0	0	0	0	0	0	0
- Age and Service	(34)	0	(21)	0	55	0	0	0
Deaths								
- With Beneficiary	(4)	0	0	0	(39)	(4)	47	0
- Without Beneficiary	(2)	(2)	0	0	(24)	(2)	(34)	(64)
Payments Ended	0	0	0	0	0	0	(3)	(3)
Data adjustments	0	0	0	0	0	0	0	0
Rehires	38	(37)	(1)	0	0	0	0	0
As of July 1, 2026	**5,260**	**1,163**	**186**	**0**	**3,290**	**199**	**1,056**	**11,154**

Note: For purposes of this exhibit, QDROs are included in the beneficiary counts.

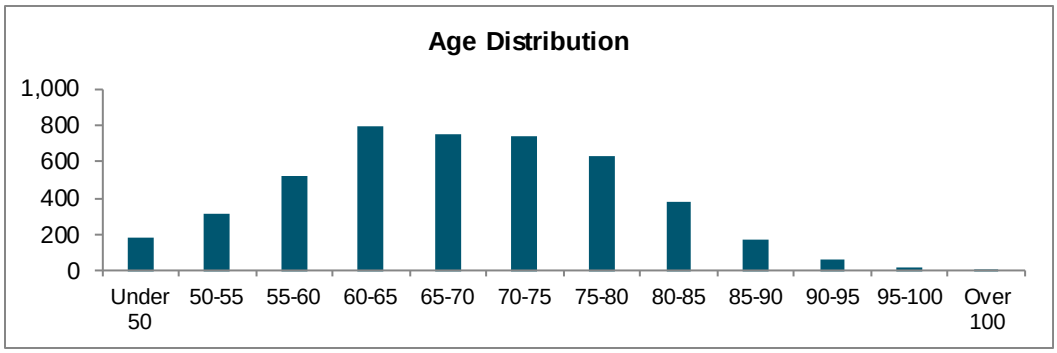
Valuation Data Distribution - Actives

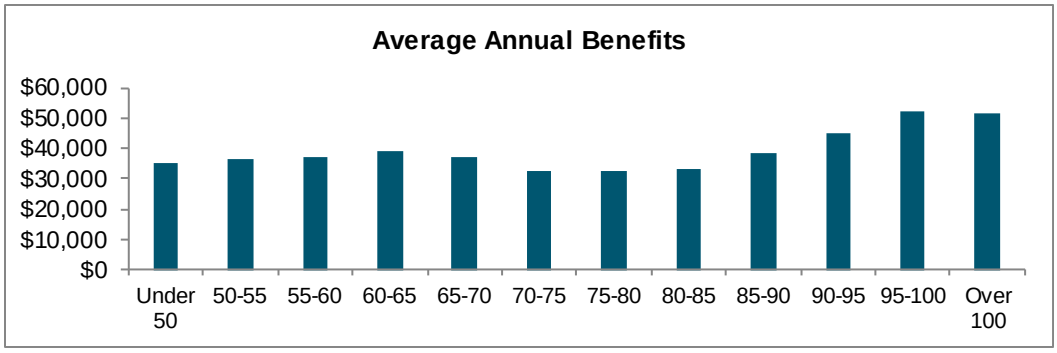
	Years of Service									
Age	**0 to 4**	**5 to 9**	**10 to 14**	**15 to 19**	**20 to 24**	**25 to 29**	**30 to 34**	**35 to 39**	**40 & Up**	**Total**
Under 25 Avg. Pay	277 $55,319									277 $55,319
25 to 29 Avg. Pay	676 $60,865	107 $76,609								783 $63,017
30 to 34 Avg. Pay	404 $60,620	428 $79,826	77 $95,572							909 $72,624
35 to 39 Avg. Pay	223 $59,833	260 $79,165	300 $97,939	42 $108,625						825 $82,266
40 to 44 Avg. Pay	126 $57,107	142 $79,965	247 $99,553	243 $107,464	63 $124,057					821 $93,873
45 to 49 Avg. Pay	51 $59,124	65 $77,901	104 $93,511	133 $107,178	224 $117,941	32 $126,349	1 $139,608			610 $102,722
50 to 54 Avg. Pay	9 $56,767	26 $71,809	37 $90,982	74 $98,243	142 $109,603	215 $121,291	14 $111,033			517 $108,723
55 to 59 Avg. Pay	6 $54,308	5 $84,831	26 $88,138	39 $93,787	64 $108,262	98 $119,998	100 $129,411	19 $136,111		357 $114,608
60 & up Avg. Pay		2 $53,646		11 $88,961	27 $105,550	30 $112,834	38 $125,502	45 $129,575	8 $139,463	161 $118,238
Total Avg. Pay	1,772 $59,452	1,035 $78,998	791 $96,983	542 $104,865	520 $114,570	375 $120,708	153 $126,825	64 $131,515	8 $139,463	5,260 $86,396

Retirees, Beneficiaries, & Disableds

Age	Number			Annual Benefits		
	Male	Female	Total	Male	Female	Total
Under 50	121	60	181	$ 4,620,800	$ 1,775,519	$ 6,396,319
50-55	244	64	308	9,261,796	1,951,474	11,213,270
55-60	412	104	516	16,131,353	3,107,735	19,239,088
60-65	604	188	792	25,300,568	5,487,442	30,788,010
65-70	553	197	750	22,058,751	5,737,823	27,796,574
70-75	514	220	734	18,009,452	6,044,409	24,053,861
75-80	403	231	634	13,768,329	6,844,205	20,612,534
80-85	229	149	378	7,504,665	5,146,842	12,651,507
85-90	75	97	172	2,860,605	3,741,115	6,601,720
90-95	22	37	59	945,970	1,691,332	2,637,302
95-100	5	15	20	292,933	756,423	1,049,356
Over 100	0	1	1	0	51,415	51,415
Total	3,182	1,363	4,545	$ 120,755,222	$ 42,335,734	$ 163,090,956

Note: DOP members are not included in this analysis.





Deferred Vesteds

Age	Number			Annual Benefits		
	Male	Female	Total	Male	Female	Total
Under 35	3	0	3	$ 59,460	$ 0	$ 59,460
35-40	23	0	23	454,143	0	454,143
40-45	32	9	41	714,103	187,431	901,534
45-50	63	10	73	1,294,597	184,217	1,478,814
50-55	23	2	25	426,380	38,663	465,043
Over 55	19	2	21	350,270	28,289	378,559
Total	163	23	186	$ 3,298,953	$ 438,600	$ 3,737,553

Note: There were no DOP participants as of July 1, 2026.

APPENDIX C – MEMBERSHIP DATA

	Actuarial Valuation as of 7/1/2026	Actuarial Valuation as of 7/1/2025	% Change
1. Active members			
a. Number	5,260	5,099	3.2%
b. Annual compensation	$ 454,441,777	$ 424,619,195	7.0%
c. Average annual compensation	$ 86,396	$ 83,275	3.7%
d. Average age	39.4	39.3	0.3%
e. Average service	11.4	11.2	1.8%
2. Non-vested terminated members			
a. Number	1,163	1,150	1.1%
b. Total contribution balances	$ 6,167,306	$ 5,692,380	8.3%
c. Average balance	$ 5,303	$ 4,950	7.1%
3. Vested terminated members			
a. Number	186	196	(5.1%)
b. Annual deferred benefits	$ 3,737,553	$ 3,911,209	(4.4%)
c. Average annual deferred benefit	$ 20,094	$ 19,955	0.7%
4. Retired members			
a. Number	3,290	3,298	(0.2%)
b. Annual retirement benefits	$ 125,936,365	$ 126,093,804	(0.1%)
c. Average annual retirement benefit	$ 38,279	$ 38,233	0.1%
5. Beneficiaries*			
a. Number	1,056	1,035	2.0%
b. Annual retirement benefits	$ 31,408,802	$ 30,743,937	2.2%
c. Average annual retirement benefit	$ 29,743	$ 29,704	0.1%
6. Disabled members			
a. Number	199	191	4.2%
b. Annual retirement benefits	$ 5,745,789	$ 5,117,258	12.3%
c. Average annual retirement benefit	$ 28,873	$ 26,792	7.8%
7. DOP Participants			
a. Number	0	0	N/A
b. Annual retirement benefits	$ 0	$ 0	N/A
c. Average annual retirement benefit	$ 0	$ 0	N/A
8. Total members included in valuation	11,154	10,969	1.7%

* Includes QDROs

Schedule of Retirees and Beneficiaries Added to and Removed from Rolls

	Added to Rolls		Removed from Rolls		Rolls end of Year*			
Year Ended	No.	Annual Benefits	No.	Annual Benefits	No.	Annual Benefits	% Increase	Average Annual Benefits
2017	181	$6,601,023	73	$2,234,813	3,658	$112,345,052	4.0%	$30,712
2018	177	6,561,513	115	3,252,707	3,720	115,653,858	2.9%	31,090
2019	184	7,351,430	89	2,766,637	3,815	120,238,651	4.0%	31,517
2020	213	8,778,156	116	3,416,592	3,912	129,851,595	8.0%	33,193
2021	310	12,844,091	140	4,358,609	4,082	138,337,077	6.5%	33,890
2022	282	10,930,794	123	3,697,022	4,241	145,570,849	5.2%	34,325
2023	290	12,460,511	130	3,321,037	4,401	154,710,323	6.3%	35,153
2024	208	8,283,191	125	3,847,196	4,484	159,146,318	2.9%	35,492
2025	156	5,771,026	116	2,962,345	4,524	161,954,999	1.8%	35,799
2026	127	4,665,529	106	3,529,572	4,545	163,090,956	0.7%	35,884

* Annual benefits at the end of the year may not add due to ad hoc COLAs.

APPENDIX C – MEMBERSHIP DATA

Retirement Effective Dates	Years of Credited Service				
July 1, 2016 to June 30, 2026	10 - 15	15 - 20	20 - 25	25 - 30	30+
- Period 7/1/16 to 6/30/17					
Average Monthly Benefit	855.06	2,135.63	3,087.72	3,808.06	4,696.16
Average Final Average Salary	3,323.17	4,970.40	5,783.97	5,527.60	6,261.54
Number of Retired Members	2	8	78	21	14
- Period 7/1/17 to 6/30/18					
Average Monthly Benefit	1,996.65	2,064.26	3,274.33	4,572.86	4,872.73
Average Final Average Salary	6,033.83	4,706.42	6,061.61	6,519.39	6,614.57
Number of Retired Members	5	3	73	10	16
- Period 7/1/18 to 6/30/19					
Average Monthly Benefit	1,005.54	2,299.46	3,227.48	4,474.98	5,095.19
Average Final Average Salary	3,281.42	5,068.54	6,043.30	6,391.58	6,793.58
Number of Retired Members	1	6	75	21	24
- Period 7/1/19 to 6/30/20					
Average Monthly Benefit	1,102.02	2,716.39	3,289.24	4,747.22	5,264.03
Average Final Average Salary	3,465.79	5,881.53	6,194.31	7,105.18	6,856.10
Number of Retired Members	3	4	65	38	27
- Period 7/1/20 to 6/30/21					
Average Monthly Benefit	1,226.99	3,331.06	3,311.99	4,828.44	5,561.91
Average Final Average Salary	3,820.76	6,879.13	6,286.42	7,136.62	7,415.88
Number of Retired Members	17	2	114	60	28
- Period 7/1/21 to 6/30/22					
Average Monthly Benefit	1,232.39	2,369.66	3,388.85	4,717.24	5,180.58
Average Final Average Salary	3,853.69	5,656.93	6,399.94	6,997.73	6,907.44
Number of Retired Members	7	7	123	31	17
- Period 7/1/22 to 6/30/23					
Average Monthly Benefit	1,382.55	2,908.46	3,492.99	5,001.29	5,638.21
Average Final Average Salary	4,178.31	6,227.80	6,621.37	7,270.99	7,517.61
Number of Retired Members	9	7	98	56	18
- Period 7/1/23 to 6/30/24					
Average Monthly Benefit	1,283.73	2,539.44	3,500.42	4,761.30	6,333.47
Average Final Average Salary	4,099.71	5,446.85	6,647.03	7,226.56	8,444.64
Number of Retired Members	4	4	67	11	11
- Period 7/1/24 to 6/30/25					
Average Monthly Benefit	1,207.71	2,604.20	3,600.89	5,594.91	5,369.67
Average Final Average Salary	4,025.51	5,864.93	6,795.02	8,380.45	7,159.54
Number of Retired Members	9	7	42	8	4
- Period 7/1/25 to 6/30/26					
Average Monthly Benefit	1,573.57	2,617.36	3,547.69	3,792.68	6,168.14
Average Final Average Salary	5,074.86	6,140.12	6,884.69	5,964.14	8,224.19
Number of Retired Members	11	9	31	3	1
Five Year Average - Period 7/1/21 to 6/30/26					
Average Monthly Benefit	1,359.58	2,614.42	3,476.14	4,906.59	5,624.95
Average Final Average Salary	4,325.81	5,920.47	6,593.50	7,234.25	7,499.94
Total Number of Retired Members	40	34	361	109	51
Ten Year Average - Period 7/1/16 to 6/30/26					
Average Monthly Benefit	1,341.87	2,517.41	3,352.72	4,728.15	5,317.06
Average Final Average Salary	4,242.35	5,664.46	6,326.93	6,958.39	7,073.73
Total Number of Retired Members	68	57	766	259	160

Note: This schedule includes service retirements as of July 1, 2026 and does not include disability retirements. For participants in the Deferred Option Plan, the Retirement Effective Date is the date the member left active service and the final average salary is determined as of the date the member effectively entered the Deferred Option Plan.

APPENDIX D – GLOSSARY OF TERMS

Accrued Benefit

The amount of an individual's benefit (whether or not vested) as of a specific date, determined in accordance with the terms of a pension plan and based on compensation and service to that date.

Actuarial Accrued Liability

That portion, as determined by a particular Actuarial Cost Method, of the Actuarial Present Value of pension plan benefits and expenses which is not provided for by future Normal Costs.

Actuarial Assumptions

Assumptions as to the occurrence of future events affecting pension costs, such as: mortality, withdrawal, disablement, and retirement; changes in compensation, rates of investment earnings, and asset appreciation or depreciation; procedures used to determine the Actuarial Value of Assets; and other relevant items.

Actuarial Cost Method

A procedure for determining the Actuarial Present Value of pension plan benefits and expenses and for developing an actuarially equivalent allocation of such value to time periods, usually in the form of a Normal Cost and an Actuarial Accrued Liability.

Actuarial Gain (Loss)

A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions during the period between two (2) Actuarial Valuation dates, as determined in accordance with a particular Actuarial Cost Method.

Actuarial Present Value

The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions.

Actuarial Valuation

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a pension plan.

Actuarial Value of Assets

The value of cash, investments and other property belonging to a pension plan, as used by the actuary for the purpose of an Actuarial Valuation.

Actuarially Equivalent

Of equal Actuarial Present Value, determined as of a given date with each value based on the same set of Actuarial Assumptions.

Amortization Payment

That portion of the pension plan contribution which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.

APPENDIX D – GLOSSARY OF TERMS

Deferred Vested Participant

A vested member who has terminated employment prior to early or normal retirement age who does not withdraw his or her contributions and is, therefore, due a retirement benefit at a later date.

Entry Age Actuarial Cost Method

A method under which the Actuarial Present Value of the Projected Benefits of each individual included in an Actuarial Valuation is allocated on a level basis over the earnings of the individual between entry age and assumed exit ages. The portion of this Actuarial Present Value allocated to a valuation year is called the Normal Cost. The portion of this Actuarial Present Value not provided for at a valuation date by the Actuarial Present Value of future Normal Costs is called the Actuarial Accrued Liability.

Market Value of Assets

The fair value of cash, investments and other property belonging to a pension plan that could be acquired by exchanging them on the open market.

Normal Cost

That portion of the Actuarial Present Value of pension plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method Projected Benefits.

Projected Benefits

Those pension plan benefit amounts which are expected to be paid at various future times under a particular set of Actuarial Assumptions, taking into account such items as the effect of advancement in age and past and anticipated future compensation and service credits.

Unaccrued Benefit

The excess of an individual's Projected Benefits over the Accrued Benefits as of a specified date.

Unfunded Actuarial Accrued Liability

The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets.

Withdrawal Liability

The liability due to an active member terminating employment with a deferred vested benefit.