

IOWA PUBLIC EMPLOYEES' RETIREMENT SYSTEM



**Actuarial Valuation Report
as of June 30, 2025**

Submitted: November 4, 2025

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November 4, 2025

Investment Board
Iowa Public Employees' Retirement System
7401 Register Drive
Des Moines, IA 50321

Re: June 30, 2025 Actuarial Valuation Report

Dear Investment Board Members:

At your request, we have performed an actuarial valuation of the Iowa Public Employees' Retirement System (IPERS or System) as of June 30, 2025, to measure the assets and liabilities of the System, determine the funded status, and set the Required Contribution Rate for fiscal year 2027 based on the results of the valuation and IPERS' Contribution Rate Funding Policy. The major findings of the valuation are contained in this report which reflects the benefit provisions in place on June 30, 2025. There have been no changes to the actuarial assumptions and methods since the prior valuation. However, there were changes to the plan provisions for the Sheriffs and Deputies and Protection Occupation groups due to the passage of House File 969, which broadened the coverage of cancer and infectious diseases and increased the members' share of the Required Contribution Rate beginning July 1, 2025.

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, benefit provisions as defined in state statutes, member census data and financial information. While not verifying the data at its source, the actuary performed tests for consistency and reasonableness. We found this information to be reasonably consistent and comparable with information provided in prior years. 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.

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 necessary 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; 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.



We certify that all costs, liabilities, and other factors for the System 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 our best estimate of anticipated experience affecting the System. 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. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of potential results is not presented herein.

The actuarial computations presented in this report are for purposes of determining the recommended funding amounts for the System and have been made on a basis consistent with our understanding of the System's funding requirements and goals and the plan provisions described in Appendix B of this report. 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. In particular, actuarial computations for purposes of fulfilling financial reporting requirements for the System under Governmental Accounting Standards Board Statements No. 67 and No. 68 are presented in separate reports.

The consultants who worked on this assignment are pension actuaries with significant public plan experience. In addition, the signing actuaries are independent of the System and the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

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 this valuation was prepared in accordance with standards of practice promulgated by the Actuarial Standards Board. The actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the retirement system and on actuarial assumptions that are internally consistent and reasonable based on the actual experience of the System. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.

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

A handwritten signature in blue ink, reading 'Patrice Beckham'.

Patrice A. Beckham, FSA, EA, FCA, MAAA
Consulting Actuary

A handwritten signature in blue ink, reading 'Brent A. Banister'.

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

A handwritten signature in blue ink, reading 'Bryan K. Hoge'.

Bryan K. Hoge, FSA, FCA, EA, MAAA
Principal and Consulting Actuary



SECTION 1 – EXECUTIVE SUMMARY

INTRODUCTION

This report presents the results of the June 30, 2025, actuarial valuation of the Iowa Public Employees' Retirement System (IPERS). The primary purposes of performing the valuation are as follows:

- to determine the Actuarial Contribution Rate (ACR) and the Required Contribution Rate (RCR) for the Regular membership, Sheriffs and Deputies, and the Protection Occupation group (all public safety members other than Sheriffs and Deputies) in accordance with IPERS' Contribution Rate Funding Policy (described in Appendix E),
- to evaluate the funded status of the System and disclose various asset and liability measures as of June 30, 2025,
- to determine the actuarial experience of the System since the last valuation,
- to assess and disclose the key risks associated with funding the System, and
- to analyze and report on trends in System contributions, assets, and liabilities over the past several years.

There have been no changes to the actuarial assumptions or methods since the prior valuation. However, there was a change to the plan provisions for the Sheriffs and Deputies and the Protection Occupation groups because of the passage of House File 969, which broadened the cancer and infectious disease definition to include all cancers and increased the members' share of the Required Contribution Rate by a fixed rate of 0.125%, effective July 1, 2025. Due to the small impact this change is expected to have on accidental disabilities in the active membership, the underlying disability assumption was not changed. Therefore, House File 969 did not impact the actuarial liability or the unfunded actuarial liability in the July 1, 2025 actuarial valuation.

The actuarial valuation results provide a "snapshot" view of the System's financial condition on June 30, 2025. The valuation results reflect net favorable experience for the past plan year as demonstrated by an unfunded actuarial liability (UAL) that was lower than expected. The total UAL on June 30, 2025, for all three membership groups covered by IPERS, is \$3.841 billion while the expected UAL was \$4.106 billion. The favorable experience was the net result of an experience gain of \$506 million on the actuarial value of assets and an experience loss of \$241 million on System liabilities, primarily due to unfavorable retirement experience and higher salary increases than expected according to actuarial assumptions. In addition to the favorable experience, the System also received contributions above the Actuarial Contribution Rate, which further lowered the June 30, 2025 UAL by \$188 million.

Based on the Contribution Rate Funding Policy and the valuation results, the Required Contribution Rate for Regular members remains unchanged at 15.73% of pay. The Required Contribution Rate for the Sheriffs and Deputies group increased by 0.24% from last year, from 24.18% to 24.42%. The Required Contribution Rate for the Protection Occupation group also remains unchanged from last year at 15.52%. **The Required Contribution Rate is above the Actuarial Contribution Rate for Regular members and Protection Occupation, resulting in a contribution margin, as shown in the following table.**





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Contribution Rate for FY 2027			
	Regular Membership	Sheriffs and Deputies	Protection Occupation
1. Normal Cost Rate	10.63%	20.10%	15.42%
2. Amortization of UAL	<u>2.47%</u>	<u>4.32%</u>	<u>0.00%</u>
3. Actuarial Contribution Rate	13.10%	24.42%	15.42%
4. Required Contribution Rate	15.73%	24.42%	15.52%
5. Shortfall/(Margin) (3) – (4)	(2.63%)	0.00%	(0.10%)
6. Employee Contribution Rate	6.29%	12.335%	6.335%
7. Employer Contribution Rate (4) - (6)	9.44%	12.085%	9.185%
8. Unfunded Actuarial Liability (\$M)	\$3,843	\$104	(\$107)
9. Funded Ratio	91.56%	90.94%	104.47%

Further details on the June 30, 2025, valuation results can be found in the following sections of this Executive Summary.

EXPERIENCE FOR THE PRIOR PLAN YEAR

Numerous factors contributed to the change in the System's assets, liabilities and the Actuarial Contribution Rate between the June 30, 2024, and June 30, 2025, valuations. The components are examined in the following discussion.

MEMBERSHIP

IPERS has three membership groups:

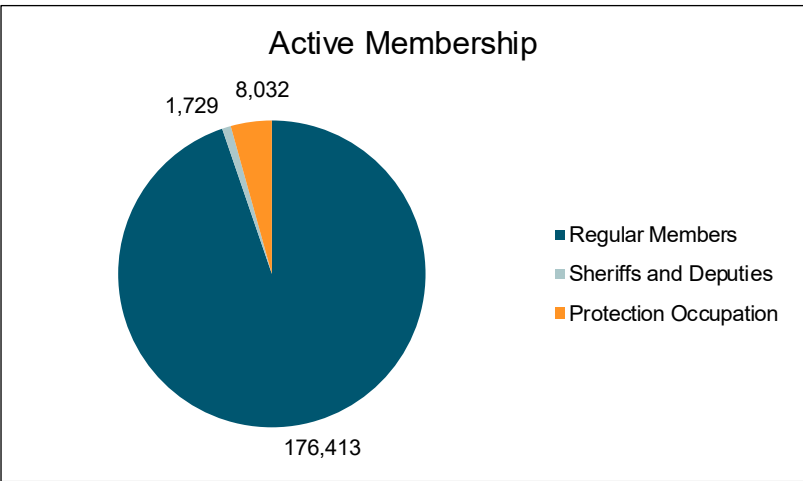
- Regular,
- Sheriffs and Deputies, and
- Protection Occupation.

Each membership group has a different benefit structure and contribution rate per Iowa statute. Note that the formula for determining member contribution rates, and the applicable employee percentage, varies between each group. A legislative change effective July 1, 2025, in relation to HF 969, affected the contribution split for the Sheriffs and Deputies and Protection Occupation groups. For Regular members, the employee contribution rate is 40% of the Required Contribution Rate. For Protection Occupation members, the employee contribution rate is 40% of the Required Contribution Rate plus an additional fixed 0.125%, and for Sheriffs and Deputies the employee contribution rate is 50% of the Required Contribution Rate plus an additional fixed 0.125%. For each group, employers will contribute the remaining Required Contribution Rate. A breakdown of the active membership by group, as of June 30, 2025, is shown in the following graph. The Regular members represent about 95% of the total actives.





SECTION 1 – EXECUTIVE SUMMARY



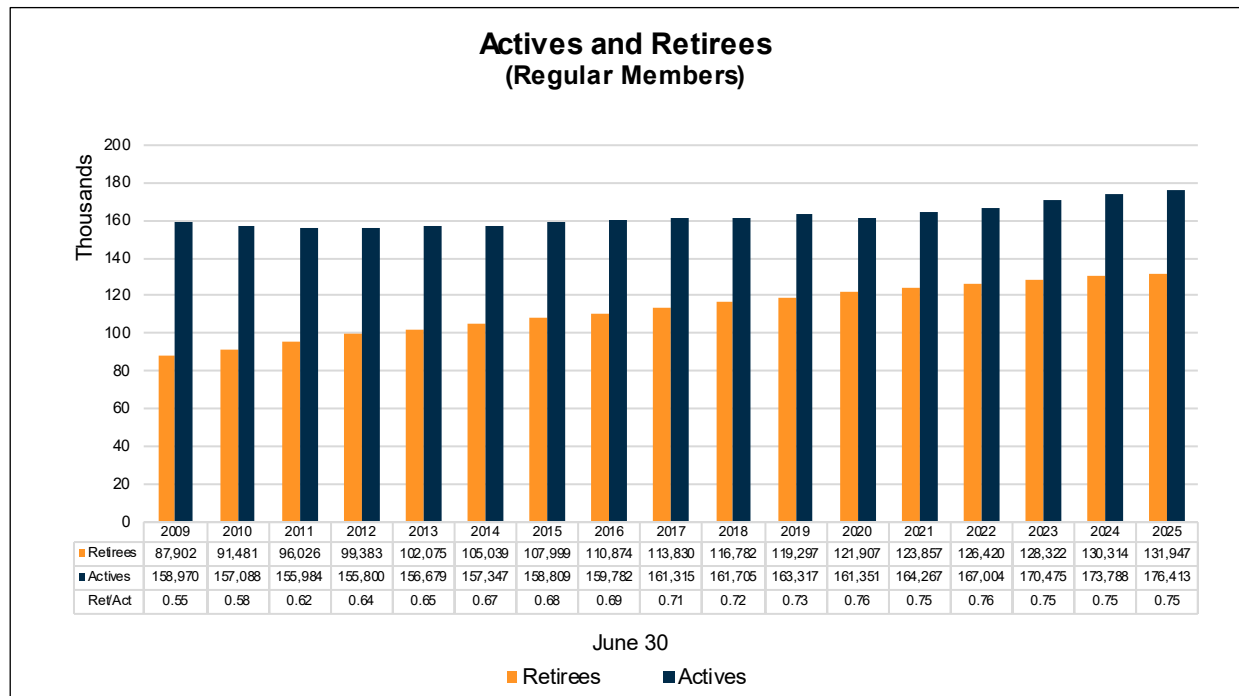
There were 176,413 active Regular members in the 2025 valuation compared to 173,788 in the 2024 valuation, a 1.5% increase. When the number of active members increases, it usually has a favorable impact on the Actuarial Contribution Rate. The unfunded actuarial liability is amortized assuming future covered payroll will increase in accordance with the assumption (currently 3.25% per year). If covered payroll increases more than assumed, the dollar amount of the UAL payment is divided by a higher dollar amount of covered payroll, resulting in a lower UAL contribution rate. As a result, there is a corresponding lower Actuarial Contribution Rate. Due to the increase in the active membership since the 2024 valuation, covered payroll in the 2025 valuation, including covered payroll for retired reemployed members, increased by 5.2% which was higher than the assumed increase of 3.25%. As a result, the UAL contribution rate is lower, as is the Actuarial Contribution Rate.

The following graph shows the number of members receiving a benefit (retired reemployed members are only counted as retirees) compared to the number of active members for the Regular membership over the past 17 valuations. The number of active members in the Regular membership group has increased slightly for the past 17 years. In contrast, the number of members receiving a benefit has increased by about 50% over that same period. As a result, the ratio of retirees to actives has increased materially over this period. This is common for very mature retirement systems and is one of the reasons for accumulating assets by funding the benefits in advance. However, the relationship between the number of retirees/beneficiaries and the number of active members (which impacts covered payroll on which contributions are paid) can create some pressure on the Actuarial Contribution Rate. For more discussion, please see Exhibit 22 in Section VI of this report.





SECTION 1 – EXECUTIVE SUMMARY



Although the ratio of retirees to actives is different for the Sheriffs and Deputies and Protection Occupation groups, the same increasing trend is evident in all three membership groups (see Exhibit 25).

ASSETS

As of June 30, 2025, the System (all membership groups) had total net assets of \$46.710 billion, when measured on a market value (or “fair value”) basis. This was an increase of \$3.049 billion from the prior year.

The market value of assets is not used directly in the calculation of the unfunded actuarial liability and the Actuarial Contribution Rates. An asset valuation method that smoothes the effect of market fluctuations is used to determine the value of assets used in the valuation. This amount, called the “actuarial value of assets”, is equal to the expected asset value, based on the actuarial value in the prior valuation, net cash flows, and the assumed rate of return (7.0%), plus 25% of the difference between the actual market value and the expected asset value. After applying the asset valuation method, the resulting value must be no less than 80% of market value and no more than 120% of market value (referred to as a “corridor”). The corridor rarely applies and did not impact the determination of the actuarial value of assets in this valuation. The actuarial value of assets as of June 30, 2025, was \$45.222 billion, an increase of \$2.295 billion from the prior valuation. The components of the change in the asset values are shown in the following table.

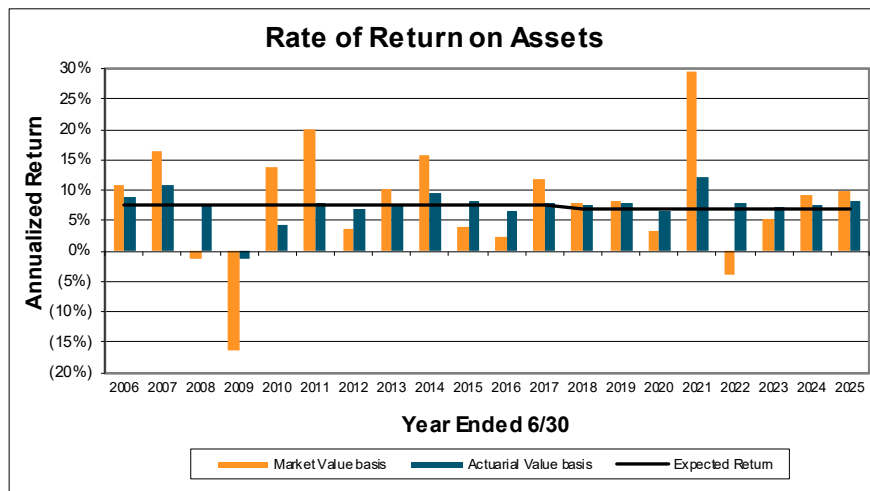




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	Market Value (\$M)	Actuarial Value (\$M)
Adjusted Net Assets, June 30, 2024	\$ 43,661	\$ 42,927
• Employer and Member Contributions	+ 1,658	+ 1,658
• Benefit Payments and Refunds	- 2,834	- 2,834
• Expected Investment Income, Net of Expenses (Based on 7.0% Assumption)	+ 3,016	+ 2,965
• Actuarial Gain/(Loss) on Investment Return	+ 1,240	+ 506
Net Assets, June 30, 2025 Before FED Transfer	\$ 46,741	\$ 45,222
• FED Transfer	+ 0	+ 0
Net Assets, June 30, 2025 After FED Transfer	\$ 46,741	\$ 45,222
• Application of Corridor	N/A	+ 0
Final Net Assets, June 30, 2025	\$ 46,741	\$ 45,222

The rate of return on a market value basis, as reported by IPERS, was 9.87%. Due to the combined impact of the favorable investment experience during FY 2025 and the deferred investment experience, the net rate of return, measured on the actuarial value of assets, was 8.20%. Since this return exceeded the investment return assumption of 7.00%, it generated an actuarial gain of \$506 million.



Rates of return on the actuarial value of assets are much smoother than market value returns, illustrating the advantage of using an asset smoothing method.

Please see Exhibits 2 and 3 in Section II of this report for a summary of the market and actuarial value of assets by group (Regular, Sheriffs and Deputies, and Protection Occupation group) as of June 30, 2025.

In last year's valuation, there was a deferred (unrecognized) investment gain (market value exceeded actuarial value) of \$734 million. Due to the rate of return of 9.87% for FY 2025, the deferred investment gain has increased to \$1.518 billion. The deferred investment gain will be recognized in the smoothing method in future years but may be offset by actual investment experience if less favorable than assumed. For example, a return of about 3.6% on the market value of assets for FY 2026 would eliminate the deferred investment gain and result in a return of 7.0% on the actuarial value of assets.





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LIABILITIES

The actuarial liability is that portion of the present value of future benefits that will not be paid by the future normal costs for active members. The difference between this liability and the actuarial value of assets at the same date is called the unfunded actuarial liability. The dollar amount of the UAL will be reduced if the contributions to the System exceed the normal cost for the year plus interest on the prior year's UAL, assuming that all actuarial assumptions are met.

The unfunded actuarial liability by group, as of June 30, 2025, is shown in the following table:

(\$ Millions)	Regular Membership	Sheriffs & Deputies	Protection Occupation	Total
Actuarial Liability	\$45,527	\$1,150	\$2,386	\$49,063
Actuarial Value of Assets	<u>41,683</u>	<u>1,046</u>	<u>2,493</u>	<u>45,222</u>
Unfunded Actuarial Liability*	\$3,843	\$104	(\$107)	\$3,841
Funded Ratio	91.56%	90.94%	104.47%	92.17%

* May not add due to rounding.

See Exhibit 7 in Section III of the report for the detailed development of the unfunded actuarial liability for each group.

Changes in the UAL occur for various reasons. The net decrease in the UAL from June 30, 2024, to June 30, 2025 was \$534 million, largely due to the favorable investment experience. The components of the net change in the UAL are shown in the following table (in millions):

Unfunded Actuarial Liability, June 30, 2024	\$ 4,375
• Expected decrease from amortization method	(19)
• Decrease due to contributions above actuarial rate	(188)
• Investment experience	(506)
• Liability experience*	241
• Other	(62)
Unfunded Actuarial Liability, June 30, 2025	\$ 3,841
• FED transfer for favorable experience	0
Unfunded Actuarial Liability, June 30, 2025	\$ 3,841

* Liability experience is 0.49% of the expected actuarial liability.

As can be observed above, various factors impacted the amount of the UAL as of June 30, 2025. Actuarial gains (losses), which result from actual experience that is more (less) favorable than anticipated based on the actuarial assumptions, are reflected in the UAL. They are measured as the difference between the expected unfunded actuarial liability and the actual unfunded actuarial liability, after taking into account any changes due to actuarial assumptions and methods or benefit provision changes. Overall, the System experienced a net actuarial gain of \$265 million which may be explained by considering the separate experience of assets and liabilities. As discussed earlier, there was a \$506 million actuarial gain on the actuarial value of assets and a net actuarial loss of \$241 million from demographic experience, primarily due to unfavorable retirement experience and





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higher salary increases than expected according to actuarial assumptions. In addition to the actuarial gain from favorable experience, the Required Contribution Rates for the System were higher than the Actuarial Contribution Rates for FY 2025, which further decreased the UAL as of June 30, 2025 by \$188 million. Finally, when covered payroll is higher than expected, more contribution dollars are received, which decreases the UAL. This is the main driver of the \$62 million decrease in UAL due to other factors.

IPERS' UAL is amortized with payments that are determined as a level percentage of covered payroll, a methodology commonly used by public plans. Because covered payroll is expected to increase each year, the dollar amounts of the UAL payments also increase in each future year. As a result, in the early years of the amortization schedule the dollar amount of contributions may be less than the interest on the UAL (particularly when the amortization period is longer), resulting in an increase in the dollar amount of UAL. Currently, the Required Contribution Rate is more than the normal cost plus interest on the UAL, so the dollar amount of UAL will decrease if all assumptions are met. The graph on the following page illustrates the outstanding balance of the projected UAL (\$ in billions) for Regular members over the remainder of the amortization period if the Actuarial Contribution Rate is paid each year and all assumptions are met (gray columns). The dark blue columns show the outstanding balance of the projected UAL in the prior valuation assuming all assumptions are met. There is a one-year lag from the valuation date to the date the contribution rate becomes effective, so while there are 19 payments remaining in the graph, the UAL isn't eliminated until 20 years after the current valuation date.

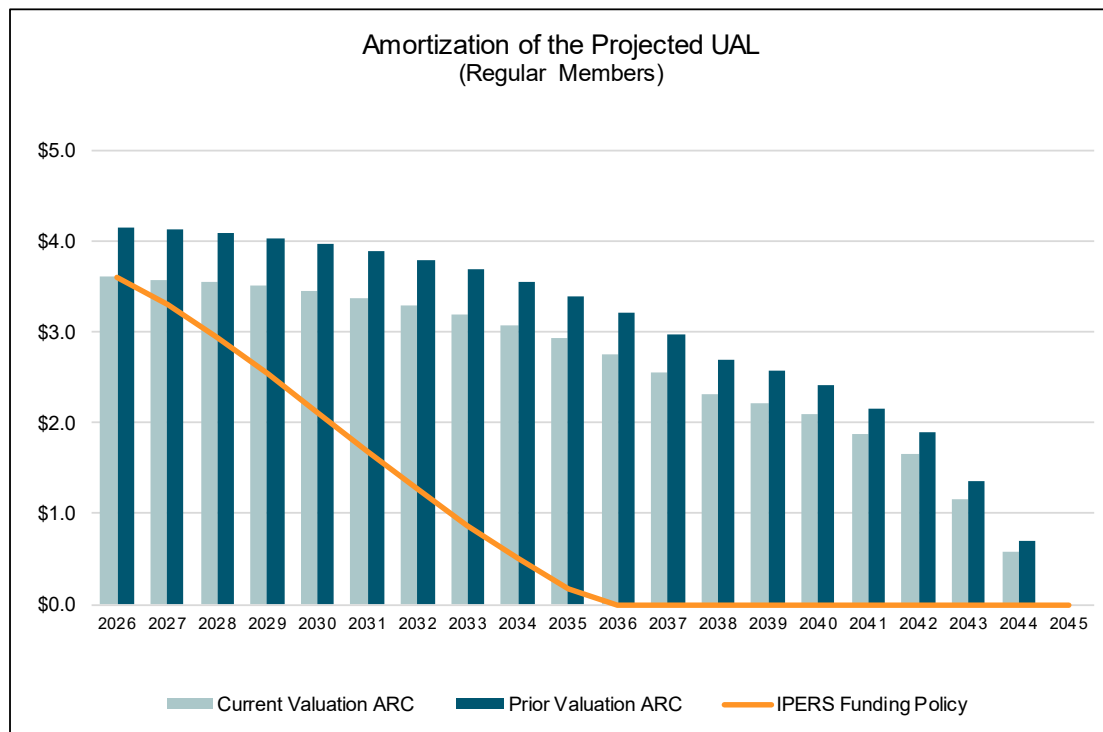
Under the current amortization method, the dollar amount of UAL declines slowly for a few years and then reduces more substantially each year. Note that given IPERS' Contribution Rate Funding Policy, the Required Contribution Rate is currently greater than the Actuarial Contribution Rate. This resulted in an additional contribution of \$188 million during FY 2025, which reduced the amount of the UAL. Current valuation results indicate that the Required Contribution Rate exceeds the Actuarial Contribution Rate by 2.63% of pay for Regular members, which will reduce the UAL at a faster rate than if the Actuarial Contribution Rate was contributed. The orange line in the graph on the following page represents the outstanding balance of the projected UAL reflecting the IPERS funding policy. However, the 2025 valuation projection model has not yet been produced, so the orange line results are based on the June 30, 2024 valuation projection model reflecting the FY 2025 asset return. If all assumptions are met, the funding policy is expected to reduce the time to fund the UAL from 20 years to around 11 years.

The System's funding policy will continue to impact the outstanding balance of the UAL in future valuations and is expected to help the Regular membership reach full funding status more quickly than the amortization schedule (gray columns). In addition, recognition of the deferred investment gains through the asset smoothing method in the future (absent offsetting investment losses) could also impact the actual rate of decline in the UAL compared to these projections. Future investment returns will continue to heavily influence the System's funding status and projected full funding date.



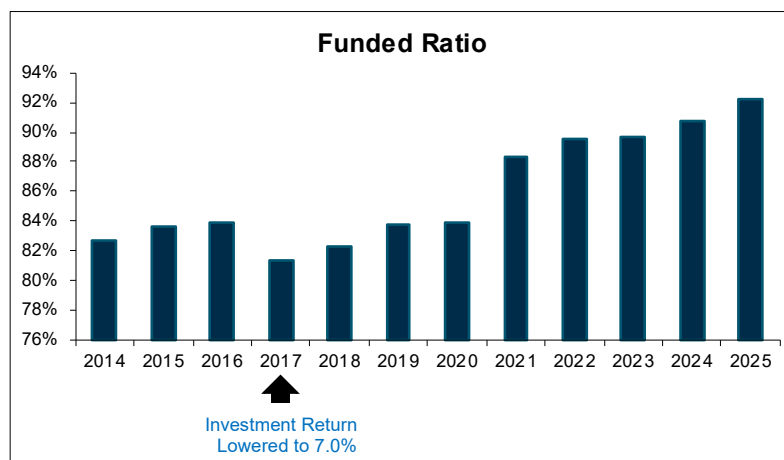


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An evaluation of the unfunded actuarial liability on a pure dollar basis may not provide a complete analysis since only the difference between the assets and liabilities (which are both very large numbers) is reflected. Another way to evaluate the unfunded actuarial liability, and the progress made in its funding, is to track the funded ratio, the ratio of the actuarial value of assets to the actuarial liability. The funded status information for the entire System is shown in the following table (in millions).

	6/30/2021	6/30/2022	6/30/2023	6/30/2024	6/30/2025
Funded Ratio (Actuarial Value)	88.3%	89.5%	89.7%	90.8%	92.2%
Unfunded Actuarial Liability (\$M)	\$4,960	\$4,615	\$4,707	\$4,375	\$3,841



Note the decrease in 2017 resulted from lowering the investment return assumption from 7.5% to 7.0%. Since then, the funded ratio has steadily improved, primarily due to a combination of favorable investment experience and contributions above the actuarial rate.





SECTION 1 – EXECUTIVE SUMMARY

Although IPERS has an unfunded actuarial liability, the funded ratio of 92.2% (actuarial assets divided by actuarial liability) marks the highest funded ratio for the System in over 20 years and represents a positive trend. In addition, since the Contribution Rate Funding Policy was adopted, the actual contribution rate each year has met or exceeded the full actuarial contribution rate. This Funding Policy provides that the scheduled contribution dollars to eventually eliminate the unfunded actuarial liability over time will be made and the funded ratio should improve if all actuarial assumptions are met.

Measures of the funded ratio presented in this report are not an indication of the System's ability to settle its current obligations, nor, on their own, are they an indication of the need for future funding. In addition, please note that due to the use of an asset smoothing method the funded ratio, based on the market value of assets, may differ from the funded ratio based on the actuarial value of assets (shown above).

CONTRIBUTION RATE

Under the Entry Age Normal cost method, the Actuarial Contribution Rate consists of two components:

- a "normal cost" for the portion of projected liability allocated by the actuarial cost method to the service of active members during the year following the valuation date;
- an "unfunded actuarial liability contribution" for the excess of the portion of projected liabilities allocated to service to date over the actuarial value of assets.

This valuation is used to determine the contribution rates that will be effective July 1, 2026, for the fiscal year ending June 30, 2027. Prior to the 2011 valuation, Regular members (about 95% of the active membership) contributed according to fixed contribution rates set in statute. Beginning with the 2011 valuation (which set contribution rates for FY 2013), IPERS was given the statutory authority to set the Required Contribution Rate for Regular members, subject to a maximum change of 1.00% per year. **Based on IPERS' Contribution Rate Funding Policy, the Required Contribution Rate for Regular members in this valuation (which sets the contribution rate for FY 2027) will remain unchanged from the prior valuation.**

The remaining 5% of the active members, the Sheriffs and Deputies and the Protection Occupation groups, have historically contributed at the Actuarial Contribution Rate, which was subject to change each year. These groups now contribute based on the same funding policy as is used for the Regular members (without the 1% cap). According to the Contribution Rate Funding Policy, if the Actuarial Contribution Rate is less than the previous Required Contribution Rate by 0.50% or more, then the Required Contribution Rate shall be lowered by 0.50% provided the funded ratio of the membership group is 95% or higher. The current valuation results show that the Actuarial Contribution Rate has increased by 0.24% for the Sheriffs and Deputies group while it has decreased by 0.01% for the Protection Occupation group. **As a result, the FY 2027 Required Contribution Rate for Sheriffs and Deputies has increased by 0.24% since last year to equal the FY 2027 Actuarial Contribution Rate.** For Protection Occupation, the FY 2027 Actuarial Contribution Rate is 0.10% below the FY 2026 Required Contribution Rate. While Protection Occupation also has a funded ratio greater than 95%, the difference between the Required Contribution Rate and the Actuarial Contribution Rate is not greater than 0.50%. **Therefore, the FY 2027 Required Contribution Rate for the Protection Occupation group will remain unchanged.** Based on the results of this valuation, the Required Contribution Rate is greater than the Actuarial Contribution Rate for Regular members and Protection Occupation.





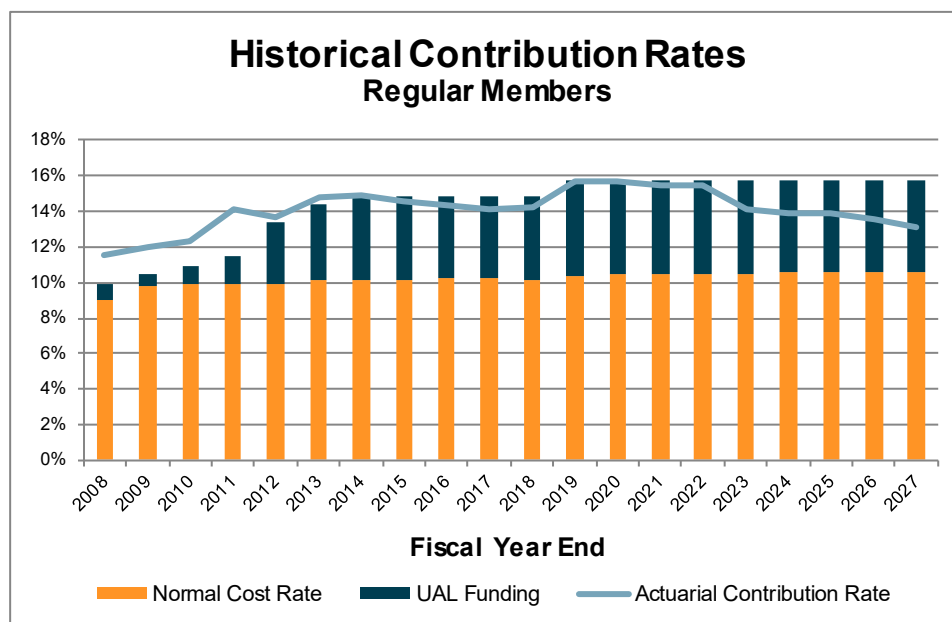
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See Exhibit 14 in Section IV for the development of these contribution rates which are summarized in the following table.

Contribution Rate for FY 2027	Regular Membership	Sheriffs & Deputies	Protection Occupation
1. Actuarial Contribution Rate	13.10%	24.42%	15.42%
2. Required Contribution Rate	15.73%	24.42%	15.52%
3. Employee Contribution Rate	6.29%	12.335%	6.335%
4. Employer Contribution Rate (2) – (3)	9.44%	12.085%	9.185%
5. Shortfall/(Margin) (1) – (2)	(2.63%)	0.00%	(0.10%)

The Actuarial Contribution Rate is determined based on the snapshot of the System taken on the valuation date, June 30, 2025, and applies only for the fiscal year beginning July 1, 2026. The Actuarial Contribution Rate in future years will change each year as the deferred actuarial investment experience is recognized and other experience (both investment and demographic) impacts the System. The Required Contribution Rate will be set in each future year based on the Actuarial Contribution Rate for that year and the Contribution Rate Funding Policy.

Beginning with the 2011 valuation (which applied to FY 2013), the Investment Board was given the authority to set the Required Contribution Rate for Regular members subject to certain statutory limitations. A historical summary of the actual contribution rate, split between the normal cost and the remaining amount available to fund the UAL, and the Actuarial Contribution Rate is shown in the following graph.

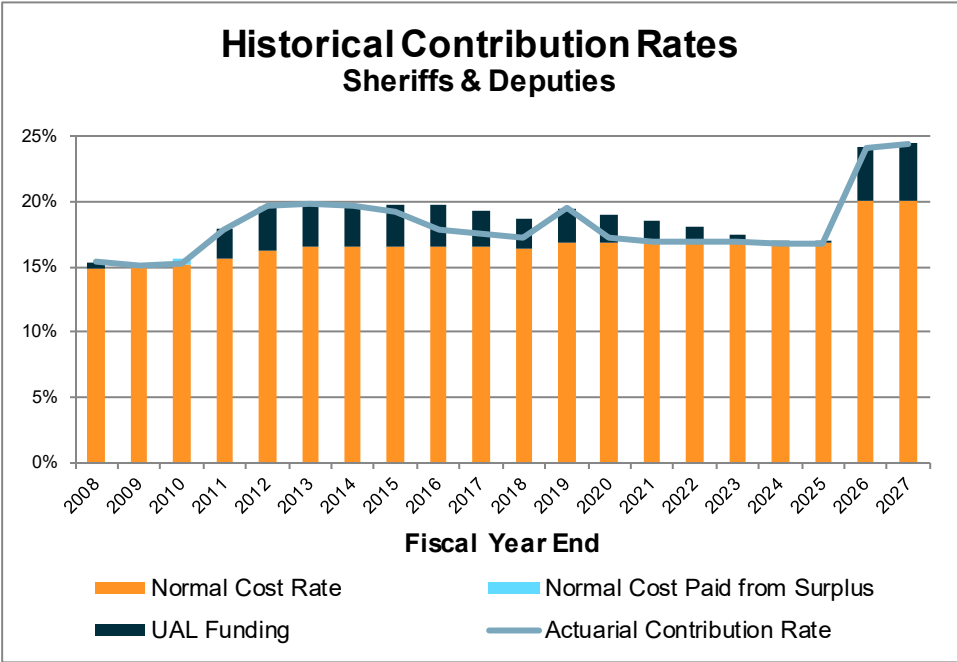




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At the beginning of this time period, the actual contribution rates were less than the Actuarial Contribution Rate and a very small portion of the total contribution rate was available to fund the UAL. Changes made to the System’s funding policy in 2013 significantly increased this portion, providing more progress toward eliminating the UAL.

As shown in the following graphs, the Sheriffs and Deputies group and the Protection Occupation group have historically contributed the full Actuarial Contribution Rate. During the 20-year period shown, both groups have contributed the full Actuarial Contribution Rate every year (sometimes using surplus to fund part of the normal cost rate) and have contributed more than the ACR in 11 of the past 13 years, due to the Contribution Rate Funding Policy.

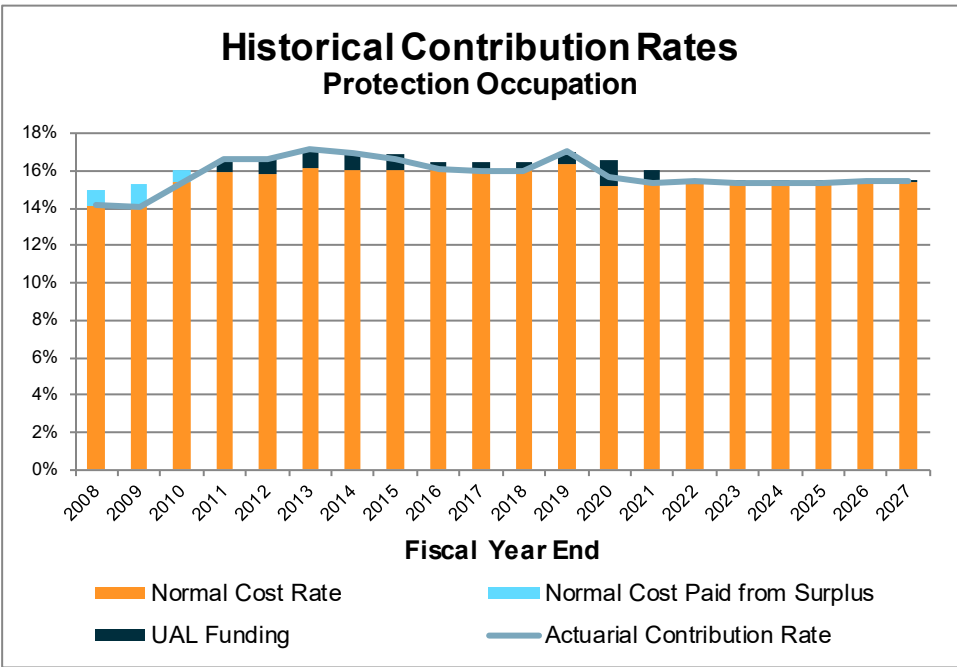


While benefit enhancements for Sheriffs and Deputies resulted in a sharp decrease to their funded ratio in 2024 and a corresponding increase to their Actuarial Contribution Rate, they continue to contribute the full Actuarial Contribution Rate.





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The current valuation results show that Protection Occupation continues to have a very strong funded ratio (104.47% in 2025). This is a direct result of the group’s long history of making contributions at or above the Actuarial Contribution Rate, as shown in the graph above.

SUMMARY

The investment return on the market value of assets for FY 2025 was 9.87%, as reported by IPERS. This favorable investment experience, combined with unrecognized investment gains in last year’s valuation, led to an investment return on the actuarial value of assets of 8.20%. Since that return is above the assumed investment return of 7.00%, there was an experience gain on the actuarial value of assets of \$506 million. This was partially offset by an experience loss on the System’s liabilities of \$241 million. The largest contributors to the net liability loss were unfavorable retirement experience and higher salary increases than expected according to actuarial assumptions. The System’s total experience for FY 2025 was a net experience gain of \$265 million, resulting in a smaller unfunded actuarial liability than was expected. In addition, contributions above the Actuarial Contribution Rate also served to decrease the June 30, 2025 UAL by \$188 million.

For each membership group, the Actuarial Contribution Rate consists of the normal cost and an amortization payment (not less than zero) of the group’s unfunded actuarial liability. The normal cost may only be offset by a negative amortization payment after a membership group has attained a funded ratio of 110% or greater for three consecutive years. The following table summarizes the change to the Actuarial Contribution Rate as well as the Required Contribution Rate, based on the current valuation results.





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	2025 Valuation (FY 2027)	2024 Valuation (FY 2026)	Change
Regular Members			
Actuarial Contribution Rate	13.10%	13.54%	(0.44%)
Required Contribution Rate	15.73%	15.73%	0.00%
Sheriffs & Deputies			
Actuarial Contribution Rate	24.42%	24.18%	0.24%
Required Contribution Rate	24.42%	24.18%	0.24%
Protection Occupation			
Actuarial Contribution Rate	15.42%	15.43%	(0.01%)
Required Contribution Rate	15.52%	15.52%	0.00%

As illustrated above, the Required Contribution Rate remained the same for Regular members and Protection Occupation, while Sheriffs and Deputies experienced an increase of 0.24% from the prior valuation. **The Required Contribution Rate for FY 2027 remains higher than the Actuarial Contribution Rate for Regular members and Protection Occupation members.**

The Actuarial Contribution Rate is determined based on the snapshot of the System taken on the valuation date, June 30, 2025, and applies only for the fiscal year beginning July 1, 2026. The Actuarial Contribution Rate in the future will change each year as the deferred actuarial investment experience is recognized and as other experience (both investment and demographic) impacts the System. While the Required Contribution Rate can vary each year, the annual change to the rate for Regular members is limited by statute to 1.0% and the Contribution Rate Funding Policy also limits the decrease in the rate. Therefore, depending on actual experience in future years, the Required Contribution Rate may vary from the Actuarial Contribution Rate.

As mentioned earlier, the System utilizes an asset smoothing method in the valuation process. While this is a common procedure for public retirement systems, it is important to identify the potential impact of the deferred investment experience, particularly if significant deferred investment losses exist. The asset smoothing method impacts only the timing of when the actual market experience is recognized in the valuation process. As a result of the smoothing of actual returns, there is currently a deferred investment gain of \$1.518 billion. The key valuation results, using both actuarial and market value of assets, are shown in the following table.





SECTION 1 – EXECUTIVE SUMMARY

Actuarial Contribution Rate*	<u>Actuarial Value</u>	<u>Market Value</u>
<u>Regular Members</u>		
Normal Cost	10.63%	10.63%
UAL Contribution	<u>2.47%</u>	<u>1.47%</u>
Total Contribution	13.10%	12.10%
UAL (\$M)	\$3,843	\$2,442
Funded Ratio	91.56%	94.64%
<u>Sheriffs & Deputies</u>		
Normal Cost	20.10%	20.10%
UAL Contribution	<u>4.32%</u>	<u>3.07%</u>
Total Contribution	24.42%	23.17%
UAL (\$M)	\$104	\$75
Funded Ratio	90.94%	93.48%
<u>Protection Occupation</u>		
Normal Cost	15.42%	15.42%
UAL Contribution	<u>(1.12%)</u>	<u>(2.03%)</u>
Total Contribution	14.30%	13.39%
UAL (\$M)	(\$107)	(\$194)
Funded Ratio	104.47%	108.14%

* Actuarial Contribution Rate is calculated prior to the application of the Contribution Rate Funding Policy which determines the Required Contribution Rate.

The long-term financial health of IPERS is heavily dependent on two key items: (1) future investment returns and (2) systematic contributions to the System at the full actuarially determined rate. Given the System's current funded status, the Actuarial Contribution Rate, and the Required Contribution Rate, the System's funded ratio is expected to improve over the long term, assuming all actuarial assumptions are met in the future and contributions are made according to the current Contribution Rate Funding Policy.

A typical retirement plan faces many different risks. The term "risk" is most often 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 each year and that uncertainty, whether favorable or unfavorable, creates risk. Actuarial Standard of Practice Number 51 defines risk as the potential of actual future measurements to deviate from expected results due to actual experience that is different from the actuarial assumptions.





SECTION 1 – EXECUTIVE SUMMARY

Risk evaluation is an important part of managing any defined benefit plan. A separate Risk Study was prepared for the Iowa Public Employees' Retirement System in March 2019 that included a comprehensive evaluation of the various risks facing the System, using both qualitative and quantitative analysis. The findings and conclusions of the report were presented to the Investment Board on March 22, 2019. The Risk Report included various types of quantitative analysis including stress tests, sensitivity analysis, and stochastic modeling. A brief discussion of certain key risks is included in Section VI of this report, but for a more comprehensive discussion please see the full Risk Report, dated March 2019. While the Risk Report was based on the 2018 valuation, we believe that the key findings and analysis remain relevant.

We conclude this executive summary by presenting comparative statistics and actuarial information on both the June 30, 2025, and June 30, 2024, valuations. All figures shown include the Regular membership, Sheriffs and Deputies, and the Protection Occupation group.





SECTION 1 – EXECUTIVE SUMMARY

SUMMARY OF HISTORICAL CHANGE IN IPERS UNFUNDED ACTUARIAL LIABILITY

<u>(\$Millions)</u>	<u>FY06</u>	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>FY13</u>	<u>FY14</u>	<u>FY15</u>
Unfunded Actuarial Liability (BOY¹)	2,289	2,507	2,266	2,665	4,895	4,931	5,682	5,916	5,787	5,544
• Expected Change										
– From Amortization Method	22	49	44	52	95	96	110	115	99	72
– Contributions different than Actuarial Rate	125	118	127	140	248	218	65	21	0	(20)
• Investment Experience	(235)	(622)	5	1,903	666	(66)	168	(15)	(527)	(171)
• Liability and Other Experience	242	187	214	135	(185)	(17)	(109)	(250)	(29)	30
• Benefit Enhancements	0	0	6	0	(674)	0	0	0	0	0
• Change in Assumptions/Methods	64	27	3	0	(114)	417	0	0	215	0
• Change in Actuarial Software	0	0	0	0	0	103	0	0	0	0
• FED Transfer	0	0	0	0	0	0	0	0	(1)	0
Unfunded Actuarial Liability (EOY²)	2,507	2,266	2,665	4,895	4,931	5,682	5,916	5,787	5,544	5,455

1 = Beginning of Year

2 = End of Year

Note: The amounts shown in each year are not additive because they are calculated on each valuation date and, therefore, represent a value at a different point in time.





SECTION 1 – EXECUTIVE SUMMARY

SUMMARY OF HISTORICAL CHANGE IN IPERS UNFUNDED ACTUARIAL LIABILITY (continued)

<u>(\$Millions)</u>	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>FY22</u>	<u>FY23</u>	<u>FY24</u>	<u>FY25</u>
Unfunded Actuarial Liability (BOY¹)	5,455	5,586	6,968	6,815	6,477	6,587	4,960	4,615	4,707	4,375
• Expected Change										
– From Amortization Method	54	52	185	43	14	12	(95)	(1)	5	(19)
– Contributions different than Actuarial Rate	(38)	(58)	(57)	0	(8)	(30)	(20)	(147)	(174)	(188)
• Investment Experience	236	(102)	(162)	(229)	146	(1,768)	(277)	(65)	(245)	(506)
• Liability and Other Experience	(121)	57	(154)	(152)	(42)	159	90	305	(27)	210
• Benefit Enhancements	0	0	0	0	0	0	0	0	109	0
• Change in Assumptions/Methods	0	1,433	35	0	0	0	(43)	0	0	0
• Change in Actuarial Software	0	0	0	0	0	0	0	0	0	0
• FED Transfer	0	0	0	0	0	0	0	0	0	0
Unfunded Actuarial Liability (EOY²)	5,586	6,968	6,815	6,477	6,587	4,960	4,615	4,707	4,375	3,872

1 = Beginning of Year

2 = End of Year

Note: The amounts shown in each year are not additive because they are calculated on each valuation date and, therefore, represent a value at a different point in time.





SECTION 1 – EXECUTIVE SUMMARY

IOWA PUBLIC EMPLOYEES' RETIREMENT SYSTEM PRINCIPAL RESULTS

	June 30, 2025	June 30, 2024	% Chg
SYSTEM MEMBERSHIP			
1. Active Membership			
- Number of Members (excluding Retired/Reemployed)			
i) Regular	176,413	173,788	1.5
ii) Sheriffs & Deputies	1,729	1,738	(0.5)
iii) Protection Occupation	<u>8,032</u>	<u>7,822</u>	2.7
iv) Total	186,174	183,348	1.5
- Projected Payroll for Upcoming Fiscal Year	\$10,878M	\$10,338M	5.2
- Average Projected Salary	\$58,427	\$56,384	3.6
2. Inactive Membership			
- Number Not in Pay Status	98,148	93,266	5.2
- Number of Retirees/Beneficiaries	137,650	135,770	1.4
- Average Annual Benefit	\$19,938	\$19,528	2.1
ASSETS AND LIABILITIES			
1. Net Assets (excluding FED reserve)			
- Market Value	\$46,741M	\$43,661M	7.1
- Actuarial Value	45,222M	42,927M	5.3
2. Present Value of Future Benefits			
- Retired Members	\$26,513M	\$25,754M	2.9
- Inactive Members	1,636M	1,522M	7.5
- Active Members	<u>31,744M</u>	<u>30,287M</u>	4.8
- Total Present Value of Future Benefits*	\$59,893M	\$57,563M	4.0
3. Actuarial Liability*	\$49,063M	\$47,303M	3.7
4. Unfunded Actuarial Liability	\$3,841M	\$4,375M	(12.2)
5. Funded Ratio			
a. Actuarial Value Assets/Actuarial Liability	92.17%	90.75%	1.6
b. Market Value Assets/Actuarial Liability	95.27%	92.30%	3.2
SYSTEM CONTRIBUTIONS			
Required Contribution Rate for FY 2027, Regular Members**	15.73%	15.73%	0.0
Employer Contribution Rate	9.44%	9.44%	0.0
Employee Contribution Rate	6.29%	6.29%	0.0
Total Actuarial Contribution Rate	13.10%	13.54%	(3.2)
Contribution Rate Shortfall/(Margin)	(2.63%)	(2.19%)	20.1

Note: Totals may not add due to rounding

M = (\$)Millions

* Difference between measures is the Present Value of Future Normal Costs

** Contribution rates for FY 2027 for Sheriffs and Deputies are 12.085% for employers, 12.335% for employees
Contribution rates for FY 2027 for Protection Occupation are 9.185% for employers, 6.335% for employees





SECTION 2 SYSTEM ASSETS





SECTION 2 – SYSTEM ASSETS

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SECTION 2 – SYSTEM ASSETS

In this section, the values assigned to the assets held by the System are presented. These assets are valued on two different bases: the market value and the actuarial value.

Market Value of Net Assets

For certain accounting statement purposes, System assets are valued at current market prices. These values represent the "snapshot" of the fair value of System assets as of the valuation date.

Actuarial Value of Net Assets

The market value of assets may not necessarily 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 volatility in the market value while still indirectly recognizing market value. The specific technique follows:

- Step 1:** Determine the expected value of plan assets at the current valuation date using the actuarial assumption for investment return on the prior actuarial value of assets and the actual receipts and disbursements of the fund for the previous 12 months.
- Step 2:** Subtract the expected value determined in Step 1 from the total market value of the Fund at the current valuation date.
- Step 3:** Multiply the difference between market and expected values determined in Step 2 by 25%.
- Step 4:** Add the expected value of Step 1 and the product of Step 3 to determine the actuarial value of assets.
- Step 5:** Verify the preliminary actuarial value of assets in Step 4 is not more than 120% of the market value of assets, nor less than 80% of the market value. If it is, adjust the actuarial value of assets so it falls within the 80% - 120% corridor.





SECTION 2 – SYSTEM ASSETS

EXHIBIT 1

ANALYSIS OF NET ASSETS AT MARKET VALUES

(\$ Millions)				
	June 30, 2025		June 30, 2024	
	<u>Amount</u>	<u>% of Total</u>	<u>Amount</u>	<u>% of Total</u>
Cash & Equivalents	\$ 502	1.1%	\$ 538	1.2%
Capital Assets, Receivables and Payables	(33)	(0.1)	(276)	(0.6)
Domestic Equity	10,169	21.8	9,257	21.2
International Equity	8,660	18.5	7,790	17.8
Fixed Income	13,309	28.5	12,419	28.4
Private Real Assets	3,199	6.8	3,085	7.1
Private Equity/Debt	10,717	22.9	10,594	24.3
Securities Lending Collateral Pool	218	0.5	254	0.6
TOTAL NET ASSETS	\$ 46,741	100.0%	\$ 43,661	100.0%
FED Reserve (Before current year transfer)	0		0	
Current Year FED Transfer Payable	0		0	
Net Retirement System Assets	\$ 46,741		\$ 43,661	





SECTION 2 – SYSTEM ASSETS

EXHIBIT 2

SUMMARY OF FUND ACTIVITY (Market Value)

	<u>Regular Membership</u>	<u>Sheriffs & Deputies</u>	<u>Protection Occupation</u>	<u>FED Reserve</u>	<u>Total</u>
NET RETIREMENT SYSTEM ASSETS ON JUNE 30, 2024	\$40,276,123,118	\$995,921,332	\$2,389,078,850	\$0	\$43,661,123,300
ASSET ADJUSTMENT	2,129,912	(2,178,364)	48,452	0	0
ADJUSTED NET ASSETS ON JUNE 30, 2024	\$40,278,253,030	\$993,742,968	\$2,389,127,302	\$0	\$43,661,123,300
REVENUE					
Employer contributions	927,923,542	13,983,030	47,778,732	0	989,685,304
Member contributions	618,839,983	13,981,111	31,871,373	0	664,692,467
Service purchase	3,938,182	0	56,105	0	3,994,287
Investment income	3,995,114,187	98,828,831	237,959,241	0	4,331,902,259
Total Revenue	<u>\$5,545,815,894</u>	<u>\$126,792,972</u>	<u>\$317,665,451</u>	<u>\$0</u>	<u>\$5,990,274,317</u>
DISBURSEMENTS					
Benefit payments	2,588,407,332	49,254,505	121,337,539	0	2,758,999,376
Member refunds	69,001,850	1,097,869	4,744,404	0	74,844,123
Administrative expenses	17,316,410	142,781	676,647	0	18,135,838
Investment expenses	54,289,501	1,342,982	3,233,622	0	58,866,105
Total Disbursements	<u>\$2,729,015,093</u>	<u>\$51,838,137</u>	<u>\$129,992,212</u>	<u>\$0</u>	<u>\$2,910,845,442</u>
PRELIMINARY NET ASSETS ON JUNE 30, 2025	\$43,095,053,831	\$1,068,697,803	\$2,576,800,541	\$0	\$46,740,552,175
TRANSFERS					
Membership changes	(10,235,980)	6,797,280	3,438,700	0	0
FED Reserve	0	0	0	0	0
ADJUSTED NET ASSETS ON JUNE 30, 2025	\$43,084,817,851	\$1,075,495,083	\$2,580,239,241	\$0	\$46,740,552,175





SECTION 2 – SYSTEM ASSETS

EXHIBIT 3

ACTUARIAL VALUE OF NET ASSETS

	<u>Regular Membership</u>	<u>Sheriffs & Deputies</u>	<u>Protection Occupation</u>	<u>Total</u>
1. Actuarial Value of Assets as of June 30, 2024	\$39,598,880,967	\$984,272,434	\$2,344,103,661	\$42,927,257,062
2. Actual Receipts/Disbursements				
a. Contributions	1,550,701,707	27,964,141	79,706,210	1,658,372,058
b. Benefit Payments and Refunds	2,657,409,182	50,352,374	126,081,943	2,833,843,499
c. Net Change	(1,106,707,475)	(22,388,233)	(46,375,733)	(1,175,471,441)
3. Expected Value of Assets as of June 30, 2025 $[(1) \times 1.07] + [(2c) \times (1.07)^{-5}]$	41,226,015,521	1,030,012,936	2,460,219,486	44,716,247,943
4. Preliminary Market Value of Assets as of June 30, 2025	43,095,053,831	1,068,697,803	2,576,800,541	46,740,552,175
5. Difference Between Market and Expected Values (4) - (3)	1,869,038,310	38,684,867	116,581,055	2,024,304,232
6. Preliminary Actuarial Value of Assets as of June 30, 2025 (3) + [(5) x 25%]	41,693,275,099	1,039,684,153	2,489,364,750	45,222,324,002
7. Transfers				
a. Membership changes	(9,903,494)	6,576,490	3,327,004	0
b. FED Reserve	0	0	0	0
8. Initial Actuarial Value of Assets as of June 30, 2025	\$41,683,371,605	\$1,046,260,643	\$2,492,691,754	\$45,222,324,002
9. Determination of Corridor				
a. 80% of Market Value of Assets	34,467,854,281	860,396,066	2,064,191,393	37,392,441,740
b. 120% of Market Value of Assets	51,701,781,421	1,290,594,100	3,096,287,089	56,088,662,610
10. Final Actuarial Value of Assets as of June 30, 2025 (8), but not less than (9a), nor greater than (9b)	\$41,683,371,605	\$1,046,260,643	\$2,492,691,754	\$45,222,324,002





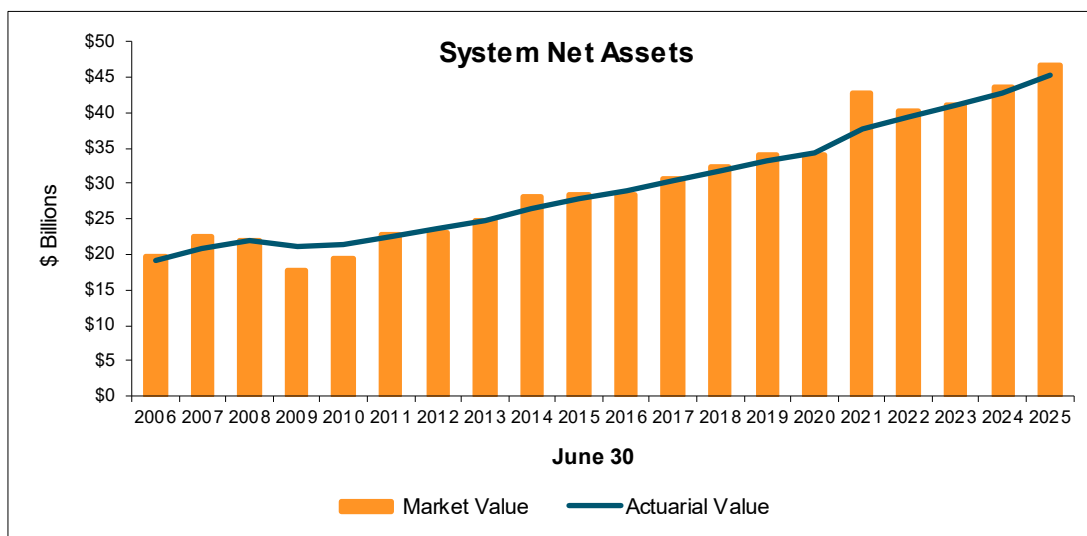
SECTION 2 – SYSTEM ASSETS

EXHIBIT 4

HISTORICAL COMPARISON (ACTUARIAL AND MARKET)

Value as of June 30	Actuarial Value of Net Assets (AVA)	Market Value of Net Assets (MVA)	AVA/MVA
2006	\$19,144,036,519	\$19,847,676,903	96%
2007	20,759,628,415	22,624,387,015	92%
2008	21,857,423,183	21,844,112,206	100%
2009	21,123,979,941	17,603,316,618	120%
2010	21,537,458,560	19,538,971,423	110%
2011	22,575,309,199	22,772,344,651	99%
2012	23,530,094,461	23,024,773,746	102%
2013	24,711,096,187	24,756,663,715	100%
2014	26,460,428,085	28,038,549,893	94%
2015	27,915,379,103	28,429,834,829	98%
2016	29,033,696,587	28,326,433,656	102%
2017	30,472,423,914	30,779,116,326	99%
2018	31,827,755,864	32,314,588,595	98%
2019	33,324,327,606	34,010,680,731	98%
2020	34,485,656,745	34,047,692,112	101%
2021	37,584,987,296	42,889,875,682	88%
2022	39,354,232,379	40,186,392,289	98%
2023	41,012,524,216	41,206,314,259	100%
2024	42,927,257,062	43,661,123,300	98%
2025	45,222,324,002	46,740,552,175	97%

Note: Values are for all three membership groups, but exclude the Favorable Experience Dividend Reserve Account.





SECTION 2 – SYSTEM ASSETS

EXHIBIT 5

SUMMARY OF FAVORABLE EXPERIENCE DIVIDEND RESERVE

1. Initial Market Value of FED Reserve as of June 30, 2025	\$	0
2. Transfer to Membership Groups		0
3. Final Value of FED Reserve as of June 30, 2025	\$	0
(1) - (2)		





SECTION 3 SYSTEM LIABILITIES





SECTION 3 – SYSTEM LIABILITIES

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SECTION 3 – SYSTEM 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. There are several methods used to allocate the cost of benefits to members' working lifetimes. These mathematical techniques are called actuarial cost methods.

The method used for this valuation is referred to as the "entry age normal" actuarial cost method. In general, under this method, a contribution that is a level percent of rates of pay is determined for each member, which if paid from date of hire to retirement date, will finance all future benefit payments. The level percent of pay that is developed is called the "**normal cost**". The sum of the individual normal cost dollar amounts is divided by expected covered payroll of current actives to determine the normal cost rate for the System.

The actuarial liability is that portion of the present value of future benefits (PVFB) that will not be paid by the normal costs in future years. The difference between this liability and the actuarial value of assets as of the same date is referred to as the **unfunded actuarial liability (UAL)**. If contributions exceed the normal cost for the year, after allowing for interest on the previous balance of the UAL, this liability will be reduced. Benefit changes, experience gains and losses, and changes in actuarial assumptions or procedures will also have an effect on the total actuarial liability and on the portion of it that is unfunded.

The UAL is projected to the following year to reflect the time lag from the valuation date to the date the contribution rates are effective and is then amortized according to the Actuarial Amortization Method adopted by the Investment Board.

Effective with the June 30, 2008, valuation, a transfer of assets is performed as of June 30th for all employees whose membership group changed since the prior valuation. The purpose behind the transfer is to better match the assets and liabilities for each membership group by having both the assets and liabilities for each member reside in their current membership group. When employees move between membership groups, an asset transfer for valuation purposes is made based on the funded ratio of their former group prior to the transfer. The asset transfer calculation is determined by multiplying the actuarial liability of the employee transferring by the funded ratio of their former group just prior to the transfer. The asset values after the transfers and the liabilities for the employees reside in their current membership group and are used to prepare the final valuation results.

A summary of the number of employees who transferred is shown below:

<u>From</u>	<u>To</u>		
	<u>Regular</u>	<u>Sheriffs and Deputies</u>	<u>Protection Occupation</u>
Regular		19	316
Sheriffs and Deputies	6		24
Protection Occupation	288	71	

The impact on the UAL from the transfer is shown below:

<u>Regular</u>	<u>Sheriffs and Deputies</u>	<u>Protection Occupation</u>
(\$4,448,546)	\$1,851,384	\$1,575,561





EXHIBIT 6

NET IMPACT OF MEMBER TRANSFERS DURING FY 2025

	<u>Regular Members</u>	<u>Sheriffs/ Deputies</u>	<u>Protection Occupation</u>
Preliminary Actuarial Liability	\$45,540,248,206	\$1,142,488,364	\$2,381,515,606
Net Effect of Transfers	(13,479,135)	7,972,785	4,484,749
Final Actuarial Liability	<u>\$45,526,769,071</u>	<u>\$1,150,461,149</u>	<u>\$2,386,000,355</u>
Preliminary Actuarial Value of Assets*	\$41,692,402,194	\$1,040,139,242	\$2,489,782,566
Net Effect of Transfers	(9,030,589)	6,121,401	2,909,188
Final Actuarial Value of Assets	<u>\$41,683,371,605</u>	<u>\$1,046,260,643</u>	<u>\$2,492,691,754</u>
Preliminary Unfunded Actuarial Liability	\$3,847,846,012	\$102,349,122	(\$108,266,960)
Net Effect of Transfers	(4,448,546)	1,851,384	1,575,561
Final Unfunded Actuarial Liability	<u>\$3,843,397,466</u>	<u>\$104,200,506</u>	<u>(\$106,691,399)</u>
Preliminary Funded Ratio	91.55%	91.04%	104.55%
Final Funded Ratio	91.56%	90.94%	104.47%

* Reflects asset transfers shown in the System's financial statements, but not the transfer amounts based on membership changes during the prior year calculated by the Actuary. The amounts disclosed in the System's assets statements were: (\$902,211) for Regular Members, \$470,368 for Sheriffs and Deputies, and \$431,843 for Protection Occupation. These transfer amounts reflected in the Preliminary Actuarial Value of Assets are adjusted based on the ratio of the Preliminary Actuarial Value of Assets to the Preliminary Market Value of Assets, or: (\$872,905) for Regular Members, \$455,089 for Sheriffs and Deputies, and \$417,816 for Protection Occupation.





EXHIBIT 7

PRESENT VALUE OF FUTURE BENEFITS as of June 30, 2025

The actuarial present value of future benefits represents the current value of benefits expected to ultimately be earned by the current members of the System as of the valuation date.

	<u>Regular Membership</u>	<u>Sheriffs & Deputies</u>	<u>Protection Occupation</u>	<u>Total</u>
Active Members				
Retirement benefits	\$26,577,924,823	\$871,482,535	\$1,480,030,914	\$28,929,438,272
Death benefits	231,525,409	8,196,810	22,376,642	262,098,861
Termination benefits	1,696,334,823	36,029,173	230,765,514	1,963,129,510
Disability benefits	493,651,305	23,911,737	71,408,147	588,971,189
Inactive Members				
Vested members	1,272,999,338	20,632,536	102,725,708	1,396,357,582
Nonvested members	232,270,800	722,386	6,437,684	239,430,870
Retired Members and Beneficiaries	<u>24,708,548,717</u>	<u>547,782,427</u>	<u>1,256,894,593</u>	<u>26,513,225,737</u>
Total Present Value of Future Benefits	\$55,213,255,215	\$1,508,757,604	\$3,170,639,202	\$59,892,652,021



SECTION 3 – SYSTEM LIABILITIES



EXHIBIT 8

UNFUNDED ACTUARIAL LIABILITY as of June 30, 2025

	<u>Regular Membership</u>	<u>Sheriffs & Deputies</u>	<u>Protection Occupation</u>	<u>Total</u>
1. Present Value of Future Benefits	\$55,213,255,215	\$1,508,757,604	\$3,170,639,202	\$59,892,652,021
2. Present Value of Future Normal Costs	<u>9,686,486,144</u>	<u>358,296,455</u>	<u>784,638,847</u>	<u>10,829,421,446</u>
3. Actuarial Liability (1) - (2)	\$45,526,769,071	\$1,150,461,149	\$2,386,000,355	\$49,063,230,575
4. Actuarial Value of Net Assets	<u>41,683,371,605</u>	<u>1,046,260,643</u>	<u>2,492,691,754</u>	<u>45,222,324,002</u>
5. Unfunded Actuarial Liability (3) - (4)	\$3,843,397,466	\$104,200,506	(\$106,691,399)	\$3,840,906,573
6. Funded Ratio (4) / (3)	91.56%	90.94%	104.47%	92.17%





SECTION 3 – SYSTEM LIABILITIES

EXHIBIT 9

CALCULATION OF ACTUARIAL (GAIN)/LOSS AND ANY TRANSFER TO THE FAVORABLE EXPERIENCE DIVIDEND RESERVE

Based on the June 30, 2025 Actuarial Valuation

The Favorable Experience Dividend (FED) reserve account was created by legislation in 1998. The main purpose of the account is to help offset the negative impact of postretirement inflation for members who retired after June 30, 1990. The law provided that a portion of the favorable actuarial experience, if any, in subsequent years would be transferred to the FED reserve. Legislation passed in 2000 capped the FED reserve at ten years of expected payouts at the maximum level. Further legislation in 2006 prohibited further transfers to the FED until the System is fully funded. The System is not currently fully funded, so no transfer is to be made this year.

1. June 30, 2024 Unfunded Actuarial Liability	\$	4,375,362,595
2. Normal Cost for year ending June 30, 2025		1,062,687,371
3. Employer and Employee Contributions*		1,654,377,771
4. Change due to membership transfers		(1,021,601)
5. Change due to FED transfer		0
6. Expected Unfunded Actuarial Liability as of June 30, 2025 [(1) + (2)] * 1.07 - (3) * (1.07) ^{.5} + (4) + (5)		4,106,390,190
7. Actual Unfunded Actuarial Liability as of June 30, 2025		3,840,906,573
8. (Gain)/loss (7) - (6)		(265,483,617)
9. Portion of gain to transfer to FED		N/A
10. Amount of Actuarial Value of Assets to transfer to FED		0
11. Market value of FED transfer	\$	0

* Does not include service purchases



SECTION 3 – SYSTEM LIABILITIES



EXHIBIT 10

ACTUARIAL (GAIN)/LOSS BY GROUP Based on the June 30, 2025 Actuarial Valuation

	<u>Regular Membership</u>	<u>Sheriffs & Deputies</u>	<u>Protection Occupation</u>	<u>Total</u>
1. Expected Actuarial Liability				
a. Actuarial Liability at June 30, 2024	\$43,968,927,475	\$1,072,081,657	\$2,261,610,525	\$47,302,619,657
b. Normal Cost for FY 2025	959,504,679	30,824,946	72,357,746	1,062,687,371
c. Benefit Payments for FY 2025	(2,657,409,182)	(50,352,374)	(126,081,943)	(2,833,843,499)
d. Interest on (a), (b), and (c) at 7.0%	3,053,554,001	75,470,936	159,039,546	3,288,064,483
e. Transfers and Service Purchases	(9,405,448)	7,972,785	4,542,784	3,110,121
f. Expected Actuarial Liability as of June 30, 2025	<u>\$45,315,171,525</u>	<u>\$1,135,997,950</u>	<u>\$2,371,468,658</u>	<u>\$48,822,638,133</u>
2. Actuarial Liability at June 30, 2025	\$45,526,769,071	\$1,150,461,149	\$2,386,000,355	\$49,063,230,575
3. Actuarial Liability (Gain)/Loss (2) - (1f)	\$211,597,546	\$14,463,199	\$14,531,697	\$240,592,442
4. Expected Actuarial Value of Assets				
a. Actuarial Value of Assets at June 30, 2024	\$39,598,880,967	\$984,272,434	\$2,344,103,661	\$42,927,257,062
b. Contributions for FY 2025	1,550,701,707	27,964,141	79,706,210	1,658,372,058
c. Benefit Payments for FY 2025	(2,657,409,182)	(50,352,374)	(126,081,943)	(2,833,843,499)
d. Interest on (a), (b), and (c) at 7.0%	2,733,842,029	68,128,735	162,491,558	2,964,462,322
e. Transfers	(9,903,494)	6,576,490	3,327,004	0
f. Expected Actuarial Value of Assets as of June 30, 2025	<u>\$41,216,112,027</u>	<u>\$1,036,589,426</u>	<u>\$2,463,546,490</u>	<u>\$44,716,247,943</u>
5. Actuarial Value of Assets at June 30, 2025	\$41,683,371,605	\$1,046,260,643	\$2,492,691,754	\$45,222,324,002
6. Actuarial Value of Assets (Gain)/Loss (4f) - (5)	(\$467,259,578)	(\$9,671,217)	(\$29,145,264)	(\$506,076,059)
7. Net Actuarial (Gain)/Loss (3) + (6)	(\$255,662,032)	\$4,791,982	(\$14,613,567)	(\$265,483,617)





SECTION 4 – SYSTEM CONTRIBUTIONS

SECTION 4 SYSTEM CONTRIBUTIONS





SECTION 4 – SYSTEM CONTRIBUTIONS

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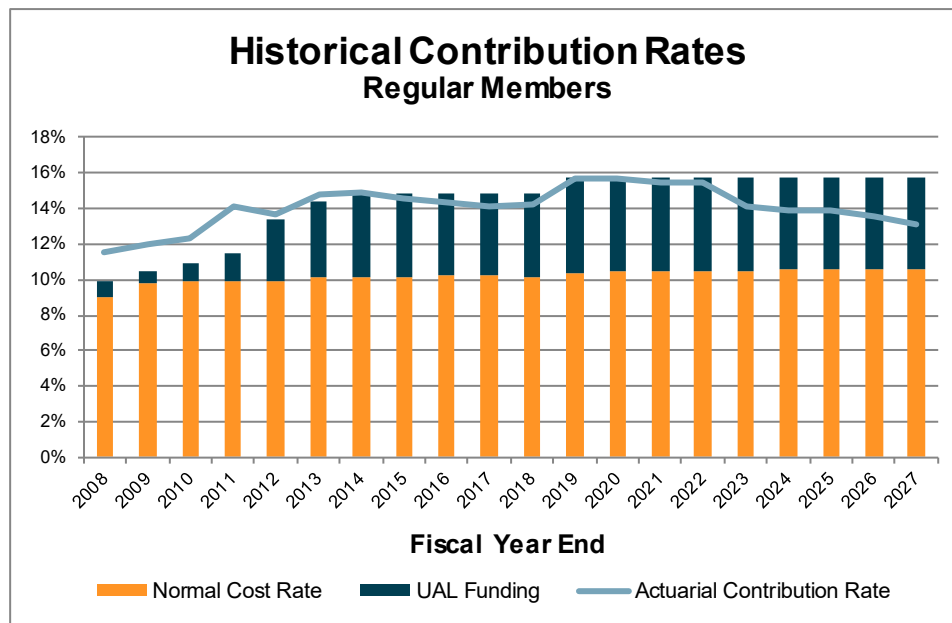
SECTION 4 – SYSTEM CONTRIBUTIONS

Under the actuarial funding method described in Appendix C, the actuarial contribution rate consists of two elements:

- (1) the normal cost rate and
- (2) the contribution rate to amortize the unfunded actuarial liability as a level percent of payroll.

This contribution rate development balances contribution stability, assigning costs to each generation as a level percent of payroll, and benefit security, accumulating assets to pay benefits before they are due. The unfunded actuarial liability represents the difference between the portion of the present value of future benefits allocated to service credited prior to the valuation date by the actuarial cost method and the actuarial value of assets as of that date.

Beginning with the 2011 valuation (applicable for contributions for FY 2013), the Investment Board was given the authority to set the Required Contribution Rate for Regular members subject to certain statutory limitations. A historical summary of the actual contribution rate and the actuarial contribution rate is shown in the graph below:



Effective with the June 30, 2008, valuation, a transfer of assets is performed on June 30th for all split service members (those members with service in more than one membership group) whose membership group changed since the prior valuation. In addition, IPERS also transfers assets for certain split service members who have not changed groups since the last valuation. As a result, all assets and liabilities for each member reside in their current membership group. When members move between membership groups, an asset transfer for valuation purposes is made based on the funded ratio of their former group prior to the transfer. The asset transfer calculation is determined by multiplying the actuarial liability of the members transferring by the funded ratio of their former group just prior to the transfer. The asset values after the transfers and the liabilities for the members reside in their current membership group and are used to prepare the final valuation results.





SECTION 4 – SYSTEM CONTRIBUTIONS

EXHIBIT 11

ACTUARIAL BALANCE SHEET as of June 30, 2025

	<u>Regular Membership</u>	<u>Sheriffs & Deputies</u>	<u>Protection Occupation</u>	<u>Total</u>
<u>ASSETS</u>				
Actuarial value of assets	\$41,683,371,605	\$1,046,260,643	\$2,492,691,754	\$45,222,324,002
Present value of future normal costs	9,686,486,144	358,296,455	784,638,847	10,829,421,446
Present value of future contributions to amortize unfunded actuarial liability	3,843,397,466	104,200,506	(106,691,399)	3,840,906,573
Total Net Assets	\$55,213,255,215	\$1,508,757,604	\$3,170,639,202	\$59,892,652,021
<u>LIABILITIES</u>				
Present Value of Future Benefits:				
Retired Members and Beneficiaries	\$24,708,548,717	\$547,782,427	\$1,256,894,593	\$26,513,225,737
Active Members	28,999,436,360	939,620,255	1,804,581,217	31,743,637,832
Inactive Members	1,505,270,138	21,354,922	109,163,392	1,635,788,452
Total Liabilities	\$55,213,255,215	\$1,508,757,604	\$3,170,639,202	\$59,892,652,021



SECTION 4 – SYSTEM CONTRIBUTIONS



EXHIBIT 12

PROJECTED UNFUNDED ACTUARIAL LIABILITY ON JUNE 30, 2026

	<u>Regular Membership</u>	<u>Sheriffs & Deputies</u>	<u>Protection Occupation</u>
1. FYE 2026 Required Contribution Rate	15.73%	24.18%	15.52%
2. Normal Cost Rate	10.63%	20.10%	15.42%
3. Contribution Rate Applied to Fund the UAL for FYE 2026 (1) - (2)	5.10%	4.08%	0.10%
4. Unfunded Actuarial Liability/(Surplus) on June 30, 2025	\$ 3,843,397,466	\$ 104,200,506	\$ (106,691,399)
5. Projected Payroll for FYE 2026	\$ 10,313,862,223	\$ 171,817,646	\$ 548,573,694
6. Projected UAL on June 30, 2026 [(4) x 1.07] - [(3) x (5) x 1.07 ⁻⁵]	\$ 3,568,329,445	\$ 104,243,176	\$ (114,727,246)





SECTION 4 – SYSTEM CONTRIBUTIONS

EXHIBIT 13

UAL AMORTIZATION BASES REGULAR MEMBERS

Amortization Bases	Original Amount	Remaining Payments*	Projected July 1, 2026 Balance	Annual Payment**
2014 Initial UAL	\$ 5,592,056,086	19	\$ 6,070,744,758	\$ 447,058,242
2015 Experience	(193,648,198)	10	(158,813,639)	(19,187,737)
2016 Experience	21,763,596	11	18,584,133	2,075,630
2017 Experience	(158,062,524)	12	(139,384,108)	(14,509,450)
2017 Assumption Changes	1,435,708,789	12	1,266,049,558	131,791,800
2018 Experience	(310,129,854)	13	(282,245,473)	(27,572,462)
2018 Assumption Changes	75,130,979	13	68,375,805	6,679,609
2019 Experience	(384,733,612)	14	(359,261,561)	(33,128,520)
2020 Experience	67,832,112	15	64,666,182	5,657,013
2021 Experience	(1,670,503,783)	16	(1,618,793,624)	(134,930,228)
2022 Experience	(351,647,258)	17	(345,063,439)	(27,509,264)
2022 Assumption Changes	9,926,473	17	9,740,621	776,545
2023 Experience	19,791,982	18	19,600,564	1,499,585
2024 Experience	(471,153,951)	19	(469,496,451)	(34,574,384)
2025 Experience	(576,373,881)	20	(576,373,881)	(40,964,329)
Total			\$ 3,568,329,445	\$ 263,162,050

* Payments begin July 1, 2026.

** Payment amount reflects mid-year timing.

1. Total UAL Amortization Payments	\$ 263,162,050
2. Projected Payroll for FYE 2026	\$ 10,313,862,223
3. Projected Payroll for FYE 2027: (2) x 1.0325	\$ 10,649,062,745
4. UAL Amortization Payment Rate: (1) / (3)	2.47%

Note: Based on the Actuarial Amortization Method, adopted by the Investment Board, annual net experience gains/losses are amortized over a new, closed 20-year period.





SECTION 4 – SYSTEM CONTRIBUTIONS

EXHIBIT 14

UAL AMORTIZATION BASES SHERIFFS & DEPUTIES

Amortization Bases	Original Amount	Remaining Payments*	Projected July 1, 2026 Balance	Annual Payment**
2024 Reinitialized UAL	\$ 99,161,436	19	\$ 98,812,591	\$ 7,276,699
2025 Experience	5,430,585	20	5,430,585	385,965
Total			\$ 104,243,176	\$ 7,662,664

* Payments begin July 1, 2026.

** Payment amount reflects mid-year timing.

1. Total UAL Amortization Payments	\$ 7,662,664
2. Projected Payroll for FYE 2026	\$ 171,817,646
3. Projected Payroll for FYE 2027 (2) x 1.0325	\$ 177,401,719
4. UAL Amortization Payment Rate (1) / (3)	4.32%

Note: Based on the Actuarial Amortization Method, adopted by the Investment Board, annual net experience gains/losses are amortized over a new, closed 20-year period.





SECTION 4 – SYSTEM CONTRIBUTIONS

EXHIBIT 15

UAL AMORTIZATION BASES PROTECTION OCCUPATION

Amortization Bases	Original Amount	Remaining Payments*	Projected July 1, 2026 Balance	Annual Payment**
2025 Reinitialized UAL	\$ (114,727,246)	30	\$ (114,727,246)	\$ (6,329,734)
Total			\$ (114,727,246)	\$ (6,329,734)

* Payments begin July 1, 2026.

** Payment amount reflects mid-year timing.

1. Total UAL Amortization Payments	\$ (6,329,734)
2. Projected Payroll for FYE 2026	\$ 548,573,694
3. Projected Payroll for FYE 2027 (2) x 1.0325	\$ 566,402,339
4. UAL Amortization Payment Rate (1) / (3)	(1.12%)

Note: Based on the Actuarial Amortization Method, adopted by the Investment Board, once a group has a surplus the prior amortization bases will be eliminated and the surplus will be amortized over an open 30-year period.





SECTION 4 – SYSTEM CONTRIBUTIONS

EXHIBIT 16

ANALYSIS OF CONTRIBUTION RATE

The actuarial cost method used to determine the required level of annual contributions by the employees and the employers to support the expected benefits is the Entry Age Normal Cost Method. Under this method, the total cost is comprised of the normal cost rate and the unfunded actuarial liability payment. The payment to amortize the unfunded actuarial liability is determined as a level percentage of payroll, based on the Actuarial Amortization Method, adopted by the Investment Board. This method was revised by the Investment Board in September 2013 (see Appendix C). The contribution rate developed in this exhibit is based on the Funding Policy and the June 30, 2025 actuarial valuation and applies to the fiscal year beginning July 1, 2026 and ending June 30, 2027.

	<u>Regular Membership</u>	<u>Sheriffs & Deputies</u>	<u>Protection Occupation</u>
1. Normal Cost Rate	10.63%	20.10%	15.42%
2. UAL Contribution Rate for FY 2027	2.47%	4.32%	(1.12%)
3. Funded Ratio as of June 30, 2025	91.6%	90.9%	104.5%
Funded Ratio as of June 30, 2024	90.1%	91.8%	103.7%
Funded Ratio as of June 30, 2023	88.8%	102.6%	103.0%
4. UAL Contribution Rate Applicable for FY 2027* (2) if positive	2.47%	4.32%	0.00%
5. Actuarial Contribution Rate for FY 2027 (1) + (4)	13.10%	24.42%	15.42%
6. Required Contribution Rate for FY 2026	15.73%	24.18%	15.52%
7. Required Contribution Rate for FY 2027**	15.73%	24.42%	15.52%
Employer Contribution Rate	9.44%	12.085%	9.185%
Employee Contribution Rate***	6.29%	12.335%	6.335%

* The UAL Contribution Rate is allowed to be negative only if the funded ratio was at least 110% in each of the past three years.

** The Required Contribution Rate is the Actuarial Contribution Rate, but not more than 1% greater than the prior year's Required Contribution Rate for Regular Members, nor lower than the prior year's Required Contribution Rate unless the difference is at least 0.50% and the funded ratio is at least 95%, in which case the Required Contribution Rate is the prior year's Required Contribution Rate less 0.50% for all groups.

*** Regular members contribute 40% of the Required Contribution Rate, Protection Occupation members contribute 40% of the Required Contribution Rate, plus an additional fixed 0.125%, and Sheriffs and Deputies contribute 50% of the Required Contribution Rate, plus an additional fixed 0.125%. For each group, employers will contribute the remaining Required Contribution Rate.





SECTION 4 – SYSTEM CONTRIBUTIONS

EXHIBIT 17A

UNFUNDED ACTUARIAL LIABILITY AMORTIZATION SCHEDULE REGULAR MEMBERS

This schedule illustrates the theoretical funding of the UAL over the remaining amortization period assuming all assumptions are met in the future (no experience gains or losses) and the Actuarial Contribution Rate (rather than the Required Contribution Rate) is contributed in future years. As a result, the years to full funding shown here will vary from the number of years disclosed in the Executive Summary of this report.

Fiscal Year Ending June 30	Projected Active Member Payroll	Unfunded Actuarial Liability (BOY)	Annual Contributions	
			Dollars	% of Payroll
-----\$ in millions-----				
2027	10,649	3,568	263	2.47
2028	10,995	3,546	272	2.47
2029	11,352	3,513	281	2.47
2030	11,721	3,469	290	2.47
2031	12,102	3,412	299	2.47
2032	12,496	3,341	309	2.47
2033	12,902	3,256	319	2.47
2034	13,321	3,154	329	2.47
2035	13,754	3,034	340	2.47
2036	14,201	2,895	351	2.47
2037	14,663	2,735	389	2.65
2038	15,139	2,524	398	2.63
2039	15,631	2,289	239	1.53
2040	16,139	2,201	279	1.73
2041	16,664	2,067	340	2.04
2042	17,205	1,860	341	1.98
2043	17,764	1,637	578	3.25
2044	18,342	1,155	642	3.50
2045	18,938	571	661	3.49
2046	19,553	0	0	0.00

Note that the outstanding balance of the UAL begins to decline immediately, slowly at first and then more rapidly over time. This pattern is due to use of the level percent of payroll amortization methodology where the dollar amount of the UAL payment increases with expected payroll in future years.





SECTION 4 – SYSTEM CONTRIBUTIONS

EXHIBIT 17B

UNFUNDED ACTUARIAL LIABILITY AMORTIZATION SCHEDULE SHERIFFS AND DEPUTIES

This schedule illustrates the theoretical funding of the UAL over the remaining amortization period assuming all assumptions are met in the future (no experience gains or losses) and the Actuarial Contribution Rate (rather than the Required Contribution Rate) is contributed in future years. As a result, the years to full funding shown here will vary from the number of years disclosed in the Executive Summary of this report.

Fiscal Year Ending June 30	Projected Active Member Payroll	Unfunded Actuarial Liability (BOY)	Annual Contributions	
			Dollars	% of Payroll
-----\$ in thousands-----				
2027	177,402	104,243	7,663	4.32
2028	183,167	103,614	7,912	4.32
2029	189,120	102,683	8,169	4.32
2030	195,267	101,421	8,434	4.32
2031	201,613	99,796	8,708	4.32
2032	208,165	97,773	8,991	4.32
2033	214,931	95,317	9,284	4.32
2034	221,916	92,386	9,585	4.32
2035	229,128	88,938	9,897	4.32
2036	236,575	84,926	10,219	4.32
2037	244,263	80,300	10,551	4.32
2038	252,202	75,008	10,894	4.32
2039	260,399	68,990	11,248	4.32
2040	268,861	62,184	11,613	4.32
2041	277,599	54,525	11,991	4.32
2042	286,621	45,938	12,380	4.32
2043	295,937	36,348	12,783	4.32
2044	305,555	25,669	13,198	4.32
2045	315,485	13,814	13,627	4.32
2046	325,738	685	709	0.22
2047	336,325	0	0	0.00

Note that the outstanding balance of the UAL begins to decline immediately, slowly at first and then more rapidly over time. This pattern is due to use of the level percent of payroll amortization methodology where the dollar amount of the UAL payment increases with expected payroll in future years.

The current valuation results for the Protection Occupation group has a negative UAL, which will be amortized over an open 30-year period. Consequently, no table is displayed.





SECTION 4 – SYSTEM CONTRIBUTIONS

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SECTION 5 – HISTORICAL FUNDING AND OTHER INFORMATION

SECTION V

HISTORICAL FUNDING AND OTHER INFORMATION





SECTION 5 – HISTORICAL FUNDING AND OTHER INFORMATION

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SECTION 5 – HISTORICAL FUNDING AND OTHER INFORMATION

In this section, we provide some historical information regarding the funding progress of the System. These exhibits retain some of the information that used to be required for accounting purposes and are included because they provide relevant information on the System's historical funding.





SECTION 5 – HISTORICAL FUNDING AND OTHER INFORMATION

EXHIBIT 18

SUMMARY OF VALUATION MEMBERSHIP

	<u>June 30, 2025</u>	<u>June 30, 2024</u>
Active Employees:		
Vested	99,515	98,649
Not yet vested	<u>86,659</u>	<u>84,699</u>
Total active employees	186,174	183,348
Retirees and beneficiaries currently receiving benefits*	137,650	135,770
Inactive vested members entitled to benefits but not yet receiving them	26,870	26,543
Inactive, nonvested members entitled to a refund of contributions**	71,278	66,723

* Retired/reemployed members are included in retiree counts, but not the active or inactive counts. Counts are 8,607 for 2025 and 8,551 for 2024.

** Includes deceased vested inactive members with employee contributions still held by the System.





SECTION 5 – HISTORICAL FUNDING AND OTHER INFORMATION

EXHIBIT 19

SCHEDULE OF FUNDING PROGRESS

Actuarial Valuation Date	Net Actuarial Value of Assets (a)	Actuarial Liability (AL) (b)	Unfunded AL (UAL) (b-a)	Funded Ratio (a/b)	Actual Covered Payroll (P/R)* (c)	UAL as a Percentage of Covered P/R [(b-a)/c]
6/30/06	\$19,144,036,519	\$21,651,122,419	2,507,085,900	88.42%	\$5,523,863,321	45.39%
6/30/07	20,759,628,415	23,026,113,782	2,266,485,367	90.16%	5,781,706,199	39.20%
6/30/08	21,857,423,183	24,522,216,589	2,664,793,406	89.13%	6,131,445,367	43.46%
6/30/09	21,123,979,941	26,018,593,823	4,894,613,882	81.19%	6,438,643,124	76.02%
6/30/10	21,537,458,560	26,468,419,650	4,930,961,090	81.37%	6,571,182,005	75.04%
6/30/11	22,575,309,199	28,257,080,114	5,681,770,915	79.89%	6,574,872,719	86.42%
6/30/12	23,530,094,461	29,446,197,486	5,916,103,025	79.91%	6,786,158,720	87.18%
6/30/13	24,711,096,187	30,498,342,320	5,787,246,133	81.02%	6,880,131,134	84.12%
6/30/14	26,460,428,085	32,004,456,088	5,544,028,003	82.68%	7,099,277,280	78.09%
6/30/15	27,915,379,103	33,370,318,731	5,454,939,628	83.65%	7,326,348,141	74.46%
6/30/16	29,033,696,587	34,619,749,147	5,586,052,560	83.86%	7,556,515,720	73.92%
6/30/17	30,472,423,914	37,440,382,029	6,967,958,115	81.39%	7,863,160,443	88.62%
6/30/18	31,827,755,864	38,642,833,653	6,815,077,789	82.36%	7,983,219,527	85.37%
6/30/19	33,324,327,606	39,801,338,797	6,477,011,191	83.73%	8,151,043,468	79.46%
6/30/20	34,485,656,745	41,072,427,540	6,586,770,795	83.96%	8,391,856,350	78.49%
6/30/21	37,584,987,296	42,544,648,750	4,959,661,454	88.34%	8,648,783,536	57.35%
6/30/22	39,354,232,379	43,969,714,606	4,615,482,227	89.50%	9,018,019,950	51.18%
6/30/23	41,012,524,216	45,719,979,439	4,707,455,223	89.70%	9,588,339,000	49.10%
6/30/24	42,927,257,062	47,302,619,657	4,375,362,595	90.75%	10,003,675,315	43.74%
6/30/25	45,222,324,002	49,063,230,575	3,840,906,573	92.17%	10,523,900,177	36.50%

* Covered payroll amount provided by the System.
Note: Includes all three membership groups.





SECTION 5 – HISTORICAL FUNDING AND OTHER INFORMATION

EXHIBIT 20

SCHEDULE OF EMPLOYER CONTRIBUTIONS

The Employer Actuarial Contribution Rate (ACR) is determined as a rate of pay as part of the annual valuation. The dollar amounts displayed in this table are based on analysis by IPERS each year to consider the actual contributions received (using the actual contribution rate in effect) and then determining what the ACR amount would have been on the same payroll.

Fiscal Year Ending	Actuarial Contribution Rate (ACR)				Percentage of ACR Contributed			
	Regular Membership	Sheriffs & Deputies	Protection Occupation	Total	Regular Membership	Sheriffs & Deputies	Protection Occupation	Total
6/30/06	\$364,424,911	\$6,228,675	\$16,888,833	\$387,542,419	82.7%	100.0%	100.0%	83.8%
6/30/07	387,578,925	6,577,652	17,723,013	411,879,590	82.2%	100.0%	100.0%	83.3%
6/30/08	408,882,080	6,301,171	17,644,966	432,828,217	96.4%	100.0%	100.0%	87.2%
6/30/09	441,951,764	6,365,911	24,736,688	473,054,363	86.9%	100.0%	100.0%	87.8%
6/30/10	467,839,274	6,725,778	27,328,184	501,893,236	88.7%	100.0%	100.0%	89.5%
6/30/11	530,692,453	7,994,058	29,711,050	568,397,561	81.1%	100.0%	100.0%	82.3%
6/30/12	528,525,785	8,999,273	30,864,449	568,389,507	98.1%	100.0%	100.0%	98.2%
6/30/13	573,480,969	9,246,766	32,118,873	614,846,608	97.8%	100.0%	100.0%	98.0%
6/30/14	596,983,323	9,583,512	32,434,713	639,001,548	100.0%	100.0%	100.0%	100.0%
6/30/15	602,423,393	9,588,844	32,548,775	644,561,012	102.1%	102.4%	101.7%	101.9%
6/30/16	618,051,508	9,427,481	32,612,466	660,091,455	103.7%	110.4%	102.2%	103.7%
6/30/17	628,387,062	9,507,927	33,623,646	671,518,635	105.0%	110.1%	102.4%	105.0%
6/30/18	641,386,156	9,753,998	33,724,988	684,865,142	104.7%	108.3%	102.6%	104.7%
6/30/19	722,765,827	11,468,737	37,547,744	771,782,308	100.0%	100.0%	100.0%	100.0%
6/30/20	741,160,205	10,570,255	35,771,734	787,502,194	100.2%	109.9%	105.8%	100.6%
6/30/21	753,395,571	10,720,930	36,727,006	800,843,507	101.9%	109.7%	104.3%	102.1%
6/30/22	791,572,690	11,352,563	38,794,548	841,719,801	101.4%	106.5%	100.4%	101.4%
6/30/23	760,252,955	12,391,207	41,962,267	814,606,429	111.2%	103.5%	101.4%	110.6%
6/30/24	785,425,047	13,120,156	44,152,687	842,697,890	112.7%	101.4%	101.4%	111.9%
6/30/25	819,499,505	13,801,339	47,235,797	880,536,641	113.2%	101.3%	101.2%	112.4%





SECTION 5 – HISTORICAL FUNDING AND OTHER INFORMATION

EXHIBIT 21

EXPECTED BENEFIT PAYMENTS

The following table shows the expected benefit payments to be made over the next 20 years. These payments include those expected to be made to current retirees and beneficiaries, current active members, and current deferred vested members (included in the active values) if all actuarial assumptions are met in future years. The benefits reflected include expected refunds and death benefits as well as retirement benefit payments.

These payouts do not include any current non-vested inactive members, any future members, or any FED payments.

<u>Fiscal Year End</u>	<u>Actives at 6/30/25</u>	<u>Retirees at 6/30/25</u>	<u>Total</u>
2026	\$198,313,000	\$2,735,911,000	\$2,934,224,000
2027	343,683,000	2,684,857,000	3,028,540,000
2028	493,013,000	2,631,004,000	3,124,017,000
2029	644,659,000	2,574,277,000	3,218,936,000
2030	800,463,000	2,514,491,000	3,314,954,000
2031	958,224,000	2,451,204,000	3,409,428,000
2032	1,119,557,000	2,384,695,000	3,504,252,000
2033	1,291,055,000	2,315,078,000	3,606,133,000
2034	1,467,454,000	2,242,183,000	3,709,637,000
2035	1,647,407,000	2,165,878,000	3,813,285,000
2036	1,829,423,000	2,086,900,000	3,916,323,000
2037	2,018,991,000	2,005,264,000	4,024,255,000
2038	2,212,609,000	1,920,723,000	4,133,332,000
2039	2,412,704,000	1,833,471,000	4,246,175,000
2040	2,618,653,000	1,743,759,000	4,362,412,000
2041	2,829,793,000	1,651,908,000	4,481,701,000
2042	3,043,638,000	1,558,308,000	4,601,946,000
2043	3,259,904,000	1,463,417,000	4,723,321,000
2044	3,475,905,000	1,367,761,000	4,843,666,000
2045	3,695,759,000	1,271,913,000	4,967,672,000

Note: Cash flows are the expected future non-discounted payments to current members. These numbers exclude refund payouts to current non-vested inactives and assume future retirees elect the normal form of annuity payment (Option 2) and future withdrawals elect refunds according to valuation assumptions. All three membership groups are included.





SECTION 5 – HISTORICAL FUNDING AND OTHER INFORMATION

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SECTION 6 RISK CONSIDERATIONS





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SECTION 6 – RISK CONSIDERATIONS

A typical retirement plan faces many different risks. 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 each year and that uncertainty, whether favorable or unfavorable, creates risk. Actuarial Standard of Practice Number 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.

Risk evaluation is an important part of managing a defined benefit plan. A separate Risk Study was prepared for the Iowa Public Employees' Retirement System in March 2019 that included a comprehensive evaluation of the various risks facing the System, using both qualitative and quantitative analysis. The findings and conclusions of the report were presented to the Investment Board on March 22, 2019. The Risk Report included various types of quantitative analysis including stress tests, sensitivity analysis, and stochastic modeling. A brief discussion of certain key risks is included in this report, but for a more comprehensive discussion please see the full Risk Report, dated March 2019. While this Risk Report was based on the June 30, 2018 valuation, we believe that the key results and analysis remain generally relevant.

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

- economic risks, such as investment return and inflation.
- demographic risks such as mortality, payroll growth, aging population including impact of baby boomers, and retirement ages; and
- external risks such as the regulatory and political environment (these are not included in ASOP 51).

The IPERS Contribution Rate Funding Policy is designed to help IPERS manage contribution and funding risks. It is a positive factor in risk assessment because it permits the Required Contribution Rate to increase based on the results of the actuarial valuation but limits any reduction to the Required Contribution Rate until the group is at least 95% funded.

The most significant negative risk factor for IPERS and most retirement systems is investment returns because of the volatility of returns and the size of plan assets compared to payroll (see Exhibit 22). A perusal of historical rates over 10-20 years reveals that the actual return each year is rarely close to the average return for the same period. This is an expected result given the underlying capital market assumptions and the asset allocation.

While the information presented in Exhibit 22 illustrates the sensitivity of the Actuarial Contribution Rate to volatility in investment returns, it doesn't provide a sense of how likely such an event is to occur (i.e., experiencing an investment return that is 10% below the current assumption). The best available tool for measuring an event's likelihood uses what is called “stochastic modeling.” Stochastic modeling is a highly technical procedure that utilizes the System's asset allocation, expected return and assumed volatility for each asset class to simulate many possible future investment return scenarios. As part of a recent study performed in September, 2025, we analyzed 1,000 such scenarios spanning over a 20-year period, resulting in 20,000 simulated investment returns. Based on the asset allocation at the time and a 7.0% assumed rate of return, the stochastic analysis showed that the total Required Contribution Rate for the Regular membership, which is currently 15.73% of pay, would exceed 18.0% of pay 23% of the time over the following 10-year period. If the timeframe is expanded to 20 years, the total Required





SECTION 6 – RISK CONSIDERATIONS

Contribution Rate for the Regular membership was above 18.0% in 41% of the scenarios. Such analysis helps to better illustrate the risk of future investment returns as they relate to the Required Contribution Rate.

Under the revised Actuarial Standards of Practice (ASOP) No. 4 effective for valuations after February 15, 2023, we are required to include an alternate calculation of the System's liability using discount rates derived from low-default-risk fixed-income obligations in our funding valuation report. This required disclosure, calculated as described below, is informational only and is not 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 which derives spot rate (effectively zero-coupon bonds) based on market bond rates. This data is published by the Society of Actuaries. We believe the rates as of June 30, 2025 with the 30-year spot rate used for all durations beyond 30 years to be an appropriate measure that meets the intent of the ASOP. Using these assumptions, we calculate a liability of approximately \$50.6 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.

There are several reasons this measure is not appropriate to use to assess IPERS' plan health or funding progress. Significant IPERS' benefit payments extend over 80 years into the future. However, there is not a significant market for fixed-income securities and bonds beyond 30 years into the future. This makes it impossible to achieve any reasonable certainty in this alternate liability calculation. This measure is typically used to assess what funds might be needed to fully settle a plan's obligations. For open public plans like IPERS, settling obligations is not an action that would be anticipated. Further, such a portfolio is unlikely to be considered appropriate for IPERS who by statute and by prudence principles is required to diversify its investment portfolio. 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.

A key demographic risk for all retirement systems, including IPERS, is improvements in mortality (longevity) differing from anticipated. While the actuarial assumptions reflect small, continuous improvements in mortality experience 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, the COVID-19 pandemic reminded us that there is some possibility of a significant public health crisis that could result in a significant number of additional deaths in a short time period, or a new endemic disease. This type of event is also significant, although the experience is more easily absorbed by the System.

When the actuarial valuation is performed each year, it determines the funded ratio, unfunded actuarial liability and the contribution rates needed to fully fund the System based on IPERS funding policy. The contributions needed (normal cost plus UAL amortization) are expressed as a percent of payroll which is consistent with how contributions are collected. Because the amortization payment on the unfunded actuarial liability is determined using the level percent of payroll methodology, an assumption must be used to develop the payment schedule for the





SECTION 6 – RISK CONSIDERATIONS

amortization of the UAL. The current payroll growth assumption for IPERS is 3.25% per year which implicitly assumes that the number of active members remains stable over time.

The funding of the System could be negatively impacted if there was a material decline in the IPERS' active membership. When the payroll of IPERS declines, it requires an increase in the contribution rate to fund the System even if the UAL is unchanged. While the dollar amount of the UAL payment might be the same, the contribution rate has to increase to collect the same dollar amount. A decline in IPERS active membership could occur for a number of reasons, but the risk is likely different for the three groups. If the state of Iowa experiences severe and prolonged fiscal challenges, the number of State employees might be reduced. Alternatively, if there is a decline in the student population, it could reduce the need to maintain the current level of teachers. Another possibility that could impact the number of active members is a shift in the way education is delivered, with higher utilization of online teaching. Regardless of the cause for the decline, a substantial decrease in the active membership could pose a risk to the stability of contribution rates.

The risk to the Regular membership of IPERS is likely mitigated because IPERS covers a diverse population across the entire state of Iowa and, as a result, is less vulnerable to significant decreases in the size of the active membership because changes often do not impact all of the various groups. The largest portion of the Regular membership is school employees which again, includes many different school districts across the state, thereby reducing the likelihood of a consistent reduction of active members across all school employers.

A significant decrease in the Sheriffs and Deputies or Protection Occupation groups may be less likely given the type of jobs covered and the ability of the state and counties to severely reduce the size of the covered group. However, because these groups are much smaller, modest changes could be more noticeable as a percentage of membership.

A common theme for most retirement plans is that risks change as a plan matures. Because this is a fundamental issue, ASOP 51 gives special attention to requiring the disclosure of appropriate measures of how a plan is maturing. In this section, we provide a number of illustrations to help demonstrate this trend.

The following exhibits summarize some historical information that helps indicate how certain key risk metrics have changed over time. It is worth noting that the three membership groups in IPERS (Regular, Sheriffs and Deputies, and Protection Occupation) have some differences that relate to the nature of retirement eligibility and the historical inclusion of certain employment categories. This uniqueness can help explain why certain events may affect the groups differently.





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EXHIBIT 22

ASSET VOLATILITY RATIO

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.

Fiscal Year End	Market Value of Assets (\$ Millions)			Actual Covered Payroll* (\$ Millions)			Asset Volatility Ratio		
	Regular Members	Sheriffs & Deputies	Protection Occupation	Regular Members	Sheriffs & Deputies	Protection Occupation	Regular Members	Sheriffs & Deputies	Protection Occupation
6/30/11	\$21,365.7	\$422.9	\$983.8	\$6,185.9	\$90.5	\$298.5	3.45	4.67	3.30
6/30/12	21,567.5	437.4	1,019.9	6,377.4	93.3	315.5	3.38	4.69	3.23
6/30/13	23,137.3	484.5	1,134.8	6,473.8	93.6	312.7	3.57	5.18	3.63
6/30/14	26,157.8	559.3	1,321.5	6,679.7	97.7	321.9	3.92	5.72	4.11
6/30/15	26,480.4	578.3	1,371.1	6,893.3	100.5	332.6	3.84	5.76	4.12
6/30/16	26,341.4	588.1	1,396.9	7,114.9	105.9	335.8	3.70	5.56	4.16
6/30/17	28,575.3	649.7	1,554.2	7,405.5	109.5	348.2	3.86	5.93	4.46
6/30/18	29,962.9	693.6	1,658.1	7,515.6	115.2	352.4	3.99	6.02	4.71
6/30/19	31,494.6	739.2	1,776.8	7,667.8	117.6	365.7	4.11	6.29	4.86
6/30/20	31,493.9	749.7	1,804.1	7,887.4	122.1	382.4	3.99	6.14	4.72
6/30/21	39,637.7	957.7	2,294.5	8,123.5	126.9	398.4	4.88	7.55	5.76
6/30/22	37,115.6	908.5	2,162.3	8,468.5	133.0	416.6	4.38	6.83	5.19
6/30/23	38,036.9	933.9	2,235.6	8,985.1	146.2	457.0	4.23	6.39	4.89
6/30/24	40,276.1	995.9	2,389.1	9,366.8	156.6	480.2	4.30	6.36	4.98
6/30/25	43,084.8	1,075.5	2,580.2	9,845.5	164.5	513.9	4.38	6.54	5.02

* Covered payroll amounts provided by the System.

Note: The impact of asset smoothing is not reflected in the impact on the ACR and amortization of the asset loss is over 20 years. Current year assumptions are used for all years shown.





SECTION 6 – RISK CONSIDERATIONS

EXHIBIT 22

HISTORICAL ASSET VOLATILITY RATIO (continued)

Fiscal Year End	Asset Volatility Ratio			Increase in ACR with a One-Time Return 10% Lower than Assumed		
	Regular Members	Sheriffs & Deputies	Protection Occupation	Regular Members	Sheriffs & Deputies	Protection Occupation
6/30/11	3.45	4.67	3.30	2.45%	3.32%	2.35%
6/30/12	3.38	4.69	3.23	2.40%	3.33%	2.30%
6/30/13	3.57	5.18	3.63	2.54%	3.68%	2.58%
6/30/14	3.92	5.72	4.11	2.79%	4.07%	2.92%
6/30/15	3.84	5.76	4.12	2.73%	4.09%	2.93%
6/30/16	3.70	5.56	4.16	2.63%	3.95%	2.96%
6/30/17	3.86	5.93	4.46	2.74%	4.21%	3.17%
6/30/18	3.99	6.02	4.71	2.84%	4.28%	3.35%
6/30/19	4.11	6.29	4.86	2.92%	4.47%	3.45%
6/30/20	3.99	6.14	4.72	2.84%	4.36%	3.35%
6/30/21	4.88	7.55	5.76	3.47%	5.37%	4.09%
6/30/22	4.38	6.83	5.19	3.11%	4.85%	3.69%
6/30/23	4.23	6.39	4.89	3.01%	4.54%	3.48%
6/30/24	4.30	6.36	4.98	3.06%	4.52%	3.54%
6/30/25	4.38	6.54	5.02	3.11%	4.65%	3.57%

Note: The impact of asset smoothing is not reflected in the impact on the ACR and amortization of the asset loss is over 20 years. Current year assumptions are used for all years shown.

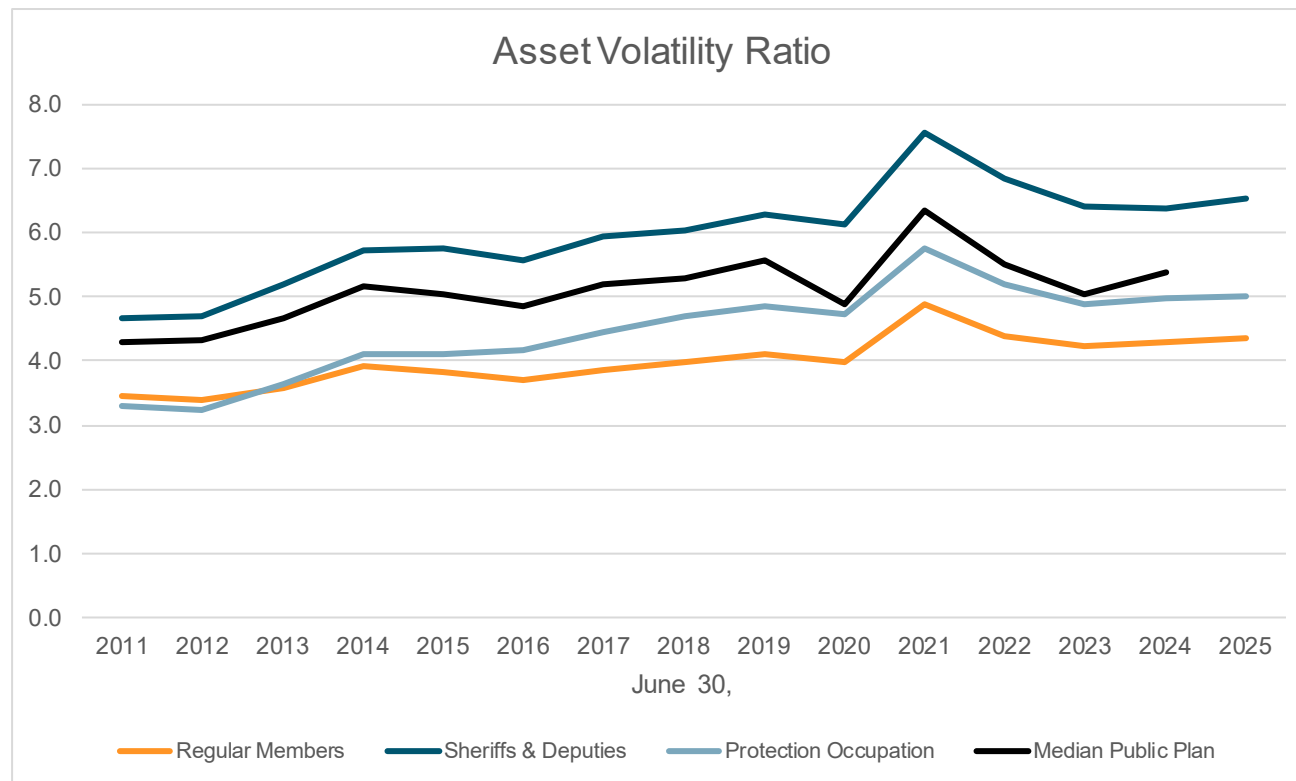




SECTION 6 – RISK CONSIDERATIONS

EXHIBIT 22

HISTORICAL ASSET VOLATILITY RATIO (continued)





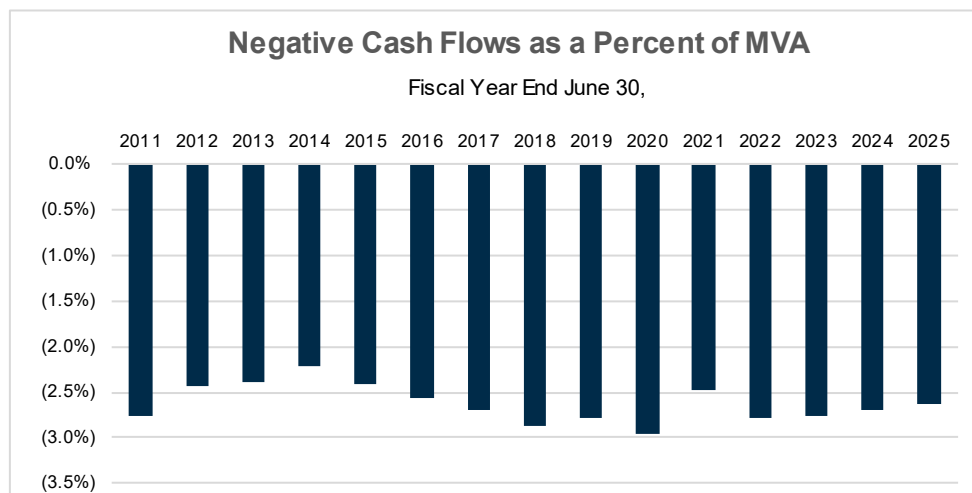
SECTION 6 – RISK CONSIDERATIONS

EXHIBIT 23

HISTORICAL CASH FLOWS

The net cash flow of a system, as a percentage of the beginning of year asset value, indicates the sensitivity of the system to short-term investment returns. Net cash flow is equal to contributions less benefits payments and expenses. Mature plans can have large amounts of benefit payments compared to contributions, particularly if they are well funded. In fact, this is one reason for prefunding retirement benefits - so a portion of investment return can help to pay plan benefits. When there is negative cash flow, investment losses in the short-term are compounded by the net withdrawal from plan assets leaving a smaller asset base to try to recover from the investment losses. Large negative cash flows, especially when increasing, can also create liquidity needs.

<u>Fiscal Year End</u>	<u>Market Value of Assets (MVA)</u>	<u>Contributions</u>	<u>Benefit Payments and Expenses</u>	<u>Net Cash Flow</u>	<u>Net Cash Flow as a Percent of MVA</u>
6/30/11	\$22,772,344,651	\$789,353,899	\$1,418,667,406	(\$629,313,507)	(2.76%)
6/30/12	23,024,773,746	942,394,013	1,504,467,980	(562,073,967)	(2.44%)
6/30/13	24,756,663,715	1,019,108,941	1,608,482,773	(589,373,832)	(2.38%)
6/30/14	28,038,549,893	1,082,521,228	1,706,250,521	(623,729,293)	(2.22%)
6/30/15	28,429,834,829	1,115,600,029	1,804,360,197	(688,760,168)	(2.42%)
6/30/16	28,326,433,656	1,176,666,912	1,904,921,736	(728,254,824)	(2.57%)
6/30/17	30,779,116,326	1,182,392,100	2,009,453,153	(827,061,053)	(2.69%)
6/30/18	32,314,588,595	1,202,788,183	2,126,106,199	(923,318,016)	(2.86%)
6/30/19	34,010,680,731	1,294,438,481	2,238,353,408	(943,914,927)	(2.78%)
6/30/20	34,047,692,112	1,327,864,560	2,332,726,605	(1,004,862,045)	(2.95%)
6/30/21	42,889,875,682	1,371,872,312	2,432,662,727	(1,060,790,415)	(2.47%)
6/30/22	40,186,392,289	1,430,839,060	2,546,095,673	(1,115,256,613)	(2.78%)
6/30/23	41,206,314,259	1,511,422,679	2,647,847,591	(1,136,424,912)	(2.76%)
6/30/24	43,661,123,300	1,578,349,766	2,755,565,500	(1,177,215,734)	(2.70%)
6/30/25	46,740,552,175	1,658,372,058	2,851,979,337	(1,193,607,279)	(2.55%)





SECTION 6 – RISK CONSIDERATIONS

EXHIBIT 24

LIABILITY MATURITY MEASUREMENTS

Most public sector retirement systems have been in operation for many years. As a result, they have aging plan populations indicated by 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.

The retirement system is also growing larger with respect to the sponsoring entities, as can be seen by the ratio of actuarial liability to payroll.

Regular Members

<u>Fiscal Year End</u>	<u>Retiree Liability</u> (a)	<u>Total Actuarial Liability</u> (b)	<u>Retiree Percentage</u> (a) / (b)	<u>Covered Payroll</u> (c)	<u>Ratio</u> (b) / (c)
6/30/07	\$8,941,802,561	\$22,023,863,090	40.6%	\$5,510,430,731	4.00
6/30/08	9,611,150,768	23,332,771,315	41.2%	5,763,634,079	4.05
6/30/09	10,238,166,793	24,733,483,621	41.4%	6,059,370,512	4.08
6/30/10	11,293,531,095	25,080,605,814	45.0%	6,180,689,916	4.06
6/30/11	12,698,425,109	26,752,154,635	47.5%	6,185,889,267	4.32
6/30/12	13,573,602,957	27,852,385,453	48.7%	6,377,421,205	4.37
6/30/13	14,329,968,181	28,799,324,938	49.8%	6,473,818,092	4.45
6/30/14	15,230,657,798	30,204,846,287	50.4%	6,679,683,181	4.52
6/30/15	16,028,939,271	31,451,851,955	51.0%	6,893,254,991	4.56
6/30/16	16,768,695,428	32,577,657,593	51.5%	7,114,861,564	4.58
6/30/17	18,304,044,337	35,176,950,577	52.0%	7,405,484,923	4.75
6/30/18	19,516,533,248	36,289,160,885	53.8%	7,515,600,156	4.83
6/30/19	20,276,746,842	37,324,200,774	54.3%	7,667,747,786	4.87
6/30/20	21,098,889,528	38,469,643,936	54.8%	7,887,362,749	4.88
6/30/21	21,804,010,789	39,777,935,943	54.8%	8,123,447,536	4.90
6/30/22	22,646,842,963	41,090,755,292	55.1%	8,468,458,536	4.85
6/30/23	23,332,893,647	42,651,088,157	54.7%	8,985,128,672	4.75
6/30/24	24,078,875,502	43,968,927,475	54.8%	9,366,842,248	4.69
6/30/25	24,708,548,717	45,526,769,071	54.3%	9,845,513,114	4.62





SECTION 6 – RISK CONSIDERATIONS

EXHIBIT 24 (continued)

Sheriffs & Deputies

<u>Fiscal Year End</u>	<u>Retiree Liability</u> (a)	<u>Total Actuarial Liability</u> (b)	<u>Retiree Percentage</u> (a) / (b)	<u>Covered Payroll</u> (c)	<u>Ratio</u> (b) / (c)
6/30/07	\$105,514,847	\$345,220,872	30.6%	\$78,112,455	4.42
6/30/08	119,881,091	374,066,361	32.0%	81,485,774	4.59
6/30/09	150,926,387	412,167,101	36.6%	85,935,900	4.80
6/30/10	169,436,571	447,627,643	37.9%	84,755,693	5.28
6/30/11	185,018,412	475,559,019	38.9%	90,506,138	5.25
6/30/12	195,188,608	502,716,830	38.8%	93,265,452	5.39
6/30/13	223,706,198	533,033,438	42.0%	93,607,893	5.69
6/30/14	240,964,615	556,135,092	43.3%	97,693,639	5.69
6/30/15	266,693,628	591,002,036	45.1%	100,469,418	5.88
6/30/16	281,179,979	624,791,635	45.0%	105,868,170	5.90
6/30/17	325,186,602	691,205,752	47.0%	109,516,368	6.31
6/30/18	341,195,487	697,339,410	48.9%	115,222,566	6.05
6/30/19	366,389,579	730,785,263	50.1%	117,564,234	6.22
6/30/20	384,403,732	766,018,806	50.2%	122,072,903	6.28
6/30/21	445,975,611	816,703,678	54.6%	126,886,204	6.44
6/30/22	453,337,835	849,677,745	53.4%	132,983,997	6.39
6/30/23	473,879,475	910,174,648	52.1%	146,213,713	6.22
6/30/24	481,919,593	1,072,081,657	45.0%	156,590,614	6.85
6/30/25	547,782,427	1,150,461,149	47.6%	164,483,400	6.99





SECTION 6 – RISK CONSIDERATIONS

EXHIBIT 24 (continued)

Protection Occupation

<u>Fiscal Year End</u>	<u>Retiree Liability</u> (a)	<u>Total Actuarial Liability</u> (b)	<u>Retiree Percentage</u> (a) / (b)	<u>Covered Payroll</u> (c)	<u>Ratio</u> (b) / (c)
6/30/07	\$169,925,365	\$657,029,820	25.9%	193,163,013	3.40
6/30/08	191,726,385	815,378,913	23.5%	286,325,514	2.85
6/30/09	234,387,583	872,943,101	26.9%	293,336,712	2.98
6/30/10	306,902,663	940,186,193	32.6%	305,736,396	3.08
6/30/11	368,833,144	1,029,366,460	35.8%	298,477,314	3.45
6/30/12	383,175,993	1,091,095,203	35.1%	315,472,063	3.46
6/30/13	446,902,048	1,165,983,944	38.3%	312,705,149	3.73
6/30/14	503,104,371	1,243,474,709	40.5%	321,900,460	3.86
6/30/15	547,545,074	1,327,464,740	41.2%	332,623,732	3.99
6/30/16	607,529,406	1,417,299,919	42.9%	335,785,986	4.22
6/30/17	705,541,965	1,572,225,700	44.9%	348,159,152	4.52
6/30/18	801,836,796	1,656,333,358	48.4%	352,396,805	4.70
6/30/19	862,732,452	1,746,352,760	49.4%	365,731,448	4.77
6/30/20	922,989,793	1,836,764,798	50.3%	382,420,698	4.80
6/30/21	993,550,318	1,950,009,129	51.0%	398,449,796	4.89
6/30/22	1,054,117,486	2,029,281,569	51.9%	416,577,417	4.87
6/30/23	1,131,899,456	2,158,716,634	52.4%	456,996,615	4.72
6/30/24	1,193,576,038	2,261,610,525	52.8%	480,242,453	4.71
6/30/25	1,256,894,593	2,386,000,355	52.7%	513,903,663	4.64



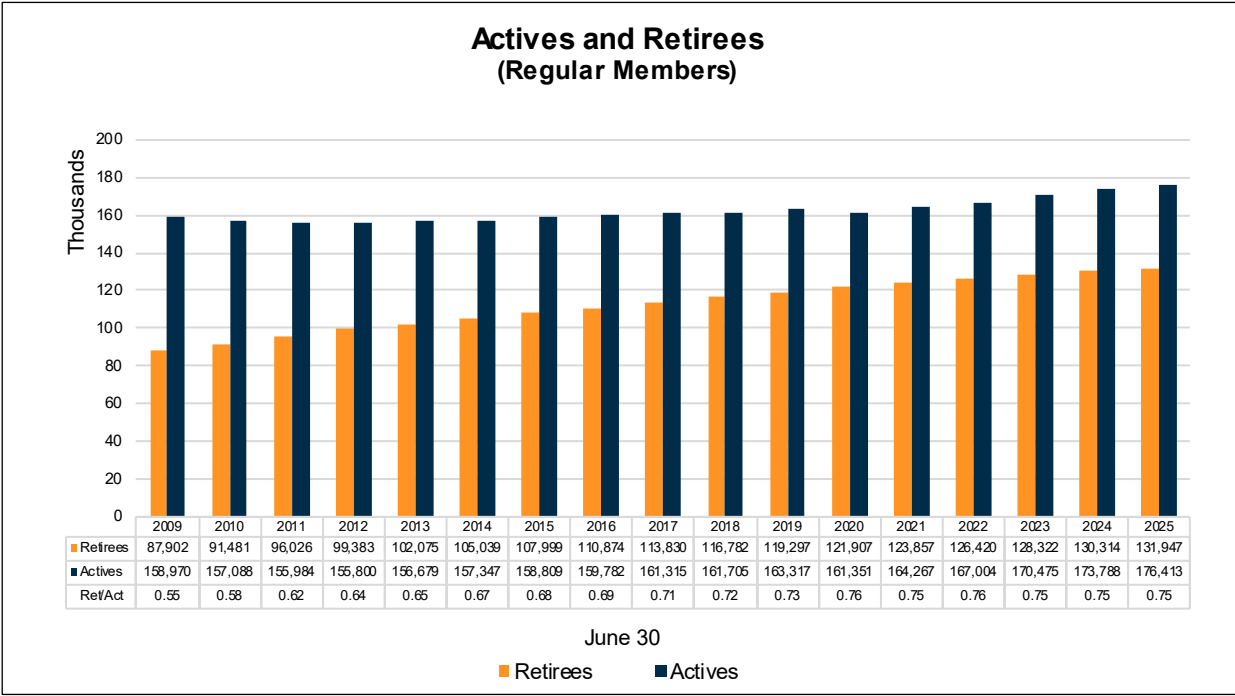


SECTION 6 – RISK CONSIDERATIONS

EXHIBIT 25

HISTORICAL ACTIVE AND RETIREE COUNTS

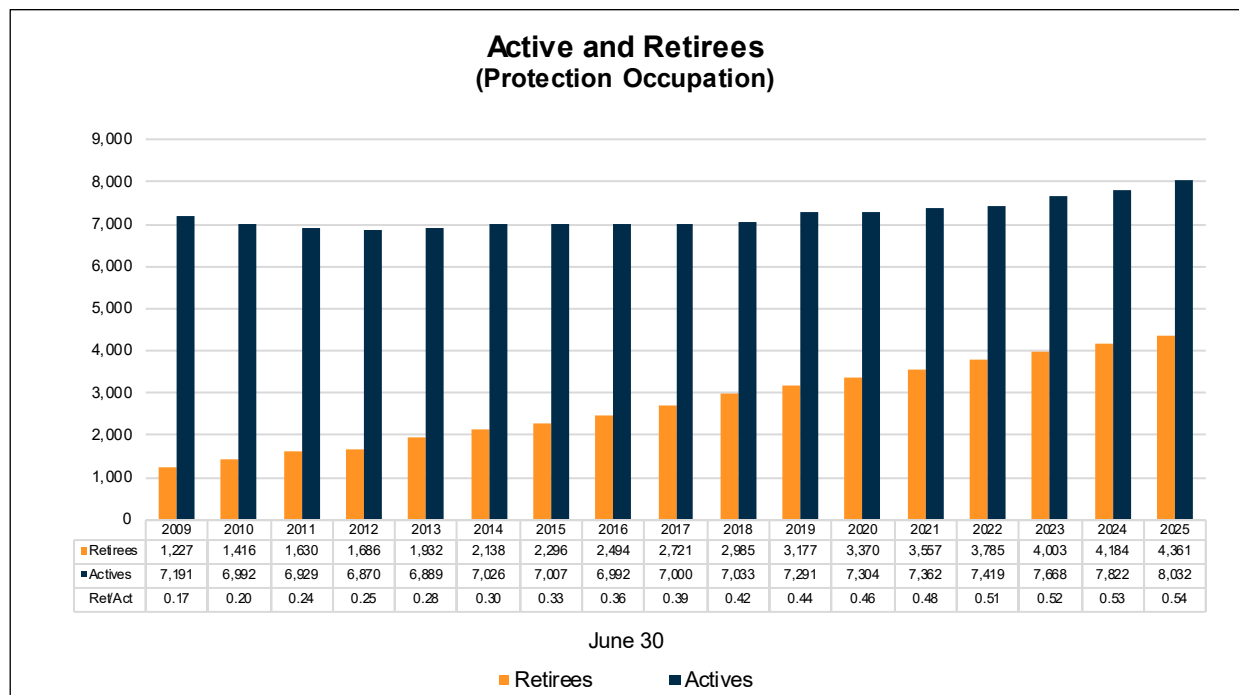
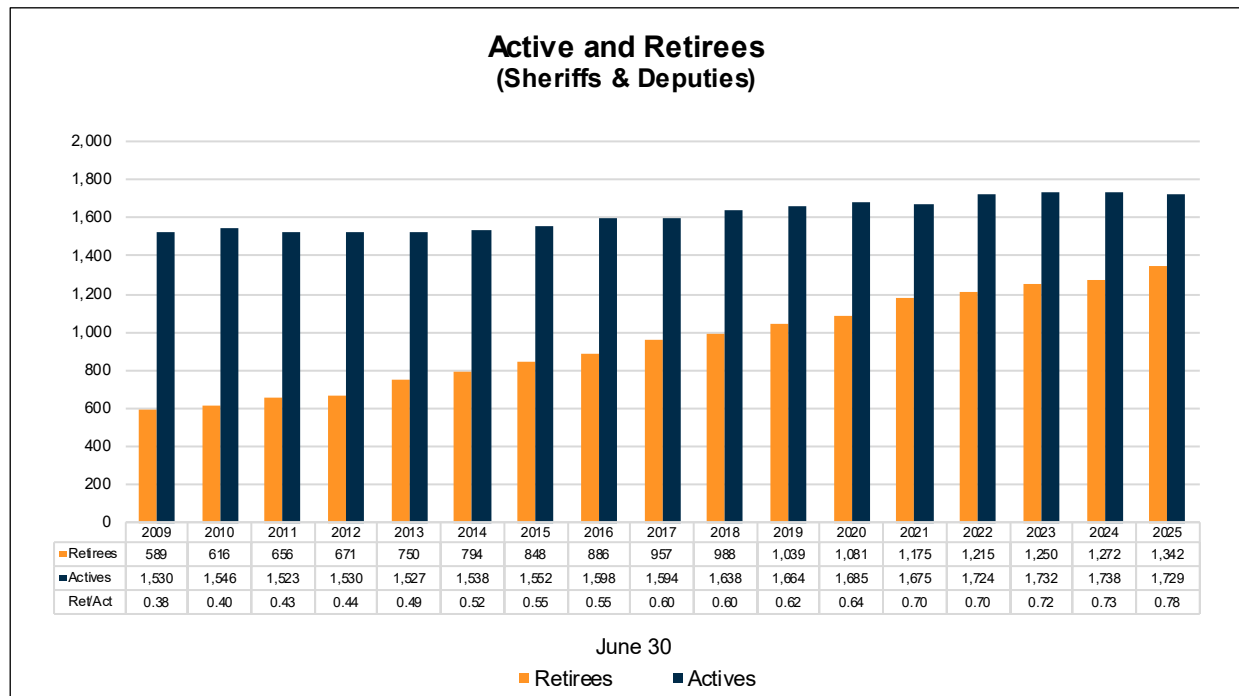
The funding of a mature retirement system is more sensitive to the impact of variations in actual versus expected experience (actuarial experience gains and losses). The larger the system’s assets and liabilities are in comparison to the contribution or revenue base that supports it (covered payroll for IPERS), the greater the risk of contribution rate volatility. One measure of plan maturity is the ratio of the number of members receiving benefits to the number of active members, sometimes called the support ratio. The revenue base supporting the system is usually proportionate to the number of active members, so a relatively high support ratio indicates a larger system (assets and liabilities) relative to its revenue base. All three membership groups reflect a trend of increasing support ratios.





SECTION 6 – RISK CONSIDERATIONS

EXHIBIT 25
(continued)





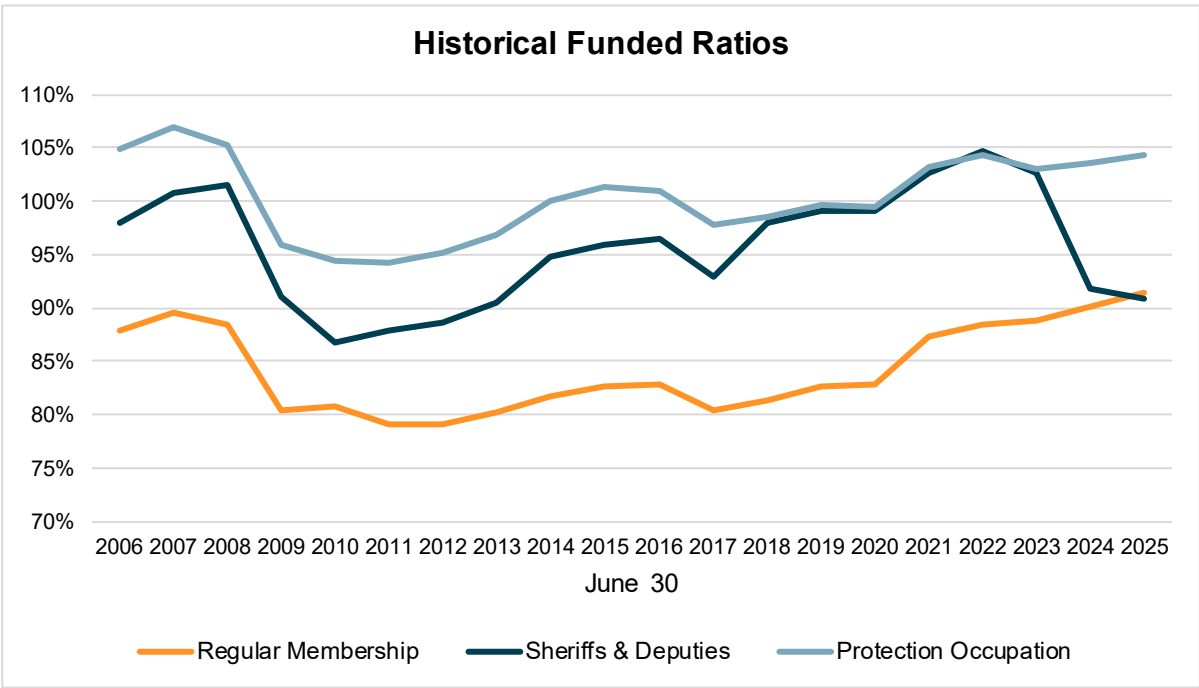
SECTION 6 – RISK CONSIDERATIONS

EXHIBIT 26

IMPACT OF FUNDING POLICY

Prior to the 2011 valuation, Regular members (about 95% of the active membership) contributed according to fixed contribution rates set in statute. For many years, the fixed contribution rate was less than the actuarial contribution rate and the System’s funded status declined. Beginning with the 2011 valuation (which set contribution rates for FY 2013), IPERS was given the statutory authority to set the Required Contribution Rate for Regular members, subject to a maximum change of 1.00% per year. Since that time, contributions have been equal to or greater than the Actuarial Contribution Rate. The remaining 5% of the active members, the Sheriffs and Deputies and the Protection Occupation groups, have historically contributed at the Actuarial Contribution Rate which was subject to change each year as actual versus expected experience unfolded. These groups now contribute based on the same funding policy as is used for the Regular members.

The following graph compares the funded ratios of the three IPERS membership groups, illustrating the clear advantage of contributing the full Actuarial Contribution Rate.



The sharp funded ratio decline for the Sheriffs and Deputies group in 2024 was due to the passage of House File 2661, which increased the benefit multiplier for members with more than 22 years of service and provides for a 1.5% automatic cost-of-living adjustment for members who retire after July 1, 2024.



EXHIBIT 27

COMPARISON OF VALUATION RESULTS UNDER ALTERNATE INVESTMENT RETURN ASSUMPTIONS

Regular Members

This exhibit compares the key June 30, 2025, valuation results over 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 (\$ in millions).

Investment Return Assumption	6.50%	6.75%	7.00%	7.25%	7.50%
Contributions for FY 2027					
Total Normal Cost	11.94%	11.26%	10.63%	10.04%	9.49%
Unfunded Actuarial Liability	4.27%	3.37%	2.47%	1.57%	0.67%
Actuarial Contribution Rate	16.21%	14.63%	13.10%	11.61%	10.16%
Required Contribution Rate	16.21%	15.73%	15.73%	15.73%	15.23%
Employer Contribution Rate	9.73%	9.44%	9.44%	9.44%	9.14%
Employee Contribution Rate	6.48%	6.29%	6.29%	6.29%	6.09%
Contribution Shortfall/(Margin)	0.00%	(1.10%)	(2.63%)	(4.12%)	(5.07%)
Actuarial Liability	\$48,193.1	\$46,830.0	\$45,526.8	\$44,280.3	\$43,087.5
Actuarial Value of Assets	41,683.4	41,683.4	41,683.4	41,683.4	41,683.4
Unfunded Actuarial Liability	\$6,509.7	\$5,146.6	\$3,843.4	\$2,596.9	\$1,404.1
Funded Ratio	86.49%	89.01%	91.56%	94.14%	96.74%

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





SECTION 6 – RISK CONSIDERATIONS

EXHIBIT 27 (continued)

Sheriffs & Deputies

This exhibit compares the key June 30, 2025, valuation results over 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 (\$ in millions).

Investment Return Assumption	6.50%	6.75%	7.00%	7.25%	7.50%
Contributions for FY 2027					
Total Normal Cost	22.75%	21.37%	20.10%	18.91%	17.80%
Unfunded Actuarial Liability	7.35%	5.83%	4.32%	2.81%	1.31%
Actuarial Contribution Rate	30.10%	27.20%	24.42%	21.72%	19.11%
Required Contribution Rate	30.10%	27.20%	24.42%	24.18%	23.68%
Employer Contribution Rate	14.925%	13.475%	12.085%	11.965%	11.715%
Employee Contribution Rate	15.175%	13.725%	12.335%	12.215%	11.965%
Contribution Shortfall/(Margin)	0.00%	0.00%	0.00%	(2.46%)	(4.57%)
Actuarial Liability	\$1,224.3	\$1,186.5	\$1,150.5	\$1,116.0	\$1,083.2
Actuarial Value of Assets	1,046.3	1,046.3	1,046.3	1,046.3	1,046.3
Unfunded Actuarial Liability	\$178.1	\$140.3	\$104.2	\$69.8	\$36.9
Funded Ratio	85.46%	88.18%	90.94%	93.75%	96.59%

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





SECTION 6 – RISK CONSIDERATIONS

EXHIBIT 27 (continued)

Protection Occupation

This exhibit compares the key June 30, 2025, valuation results over 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 (\$ in millions).

Investment Return Assumption	6.50%	6.75%	7.00%	7.25%	7.50%
Contributions for FY 2027					
Total Normal Cost	17.24%	16.30%	15.42%	14.59%	13.82%
Unfunded Actuarial Liability	0.59%	0.00%	0.00%	0.00%	0.00%
Actuarial Contribution Rate	17.83%	16.30%	15.42%	14.59%	13.82%
Required Contribution Rate	17.83%	16.30%	15.52%	15.02%	15.02%
Employer Contribution Rate	10.575%	9.655%	9.185%	8.885%	8.885%
Employee Contribution Rate	7.255%	6.645%	6.335%	6.135%	6.135%
Contribution Shortfall/(Margin)	0.00%	0.00%	(0.10%)	(0.43%)	(1.20%)
Actuarial Liability	\$2,529.1	\$2,456.0	\$2,386.0	\$2,319.1	\$2,255.0
Actuarial Value of Assets	2,492.7	2,492.7	2,492.7	2,492.7	2,492.7
Unfunded Actuarial Liability	\$36.4	(\$36.7)	(\$106.7)	(\$173.6)	(\$237.7)
Funded Ratio	98.56%	101.50%	104.47%	107.49%	110.54%

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





APPENDIX A

SUMMARY STATISTICS ON

SYSTEM MEMBERSHIP





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

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APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

APPENDIX A

SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

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APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

RECONCILIATION OF ACTIVE MEMBERS

Below is a summary of the changes in active members (excluding retired re-employed members) between June 30, 2024 and June 30, 2025.

	<u>Regular Membership</u>	<u>Sheriffs & Deputies</u>	<u>Protection Occupation</u>	<u>Total</u>
6/30/2024 Starting count	173,788	1,738	7,822	183,348
New actives	18,653	54	985	19,692
Returning actives	3,469	12	93	3,574
Nonvested Terminations	(9,225)	(17)	(350)	(9,592)
Elected Refund	(2,533)	(10)	(204)	(2,747)
Vested Terminations	(3,243)	(29)	(176)	(3,448)
Total Withdrawals	<u>(15,001)</u>	<u>(56)</u>	<u>(730)</u>	<u>(15,787)</u>
Deaths	(252)	(2)	(7)	(261)
Disability Retirements	(26)	(1)	(1)	(28)
AE Benefits	(204)	0	(3)	(207)
Service Retirements	<u>(4,044)</u>	<u>(76)</u>	<u>(154)</u>	<u>(4,274)</u>
Total Retirements	<u>(4,274)</u>	<u>(77)</u>	<u>(158)</u>	<u>(4,509)</u>
Other/transfer	30	60	27	117
6/30/2025 Ending count	176,413	1,729	8,032	186,174





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

HISTORICAL SUMMARY OF MEMBERS

The following table displays selected historical data (including Regular, Sheriffs and Deputies, and Protection Occupation groups) as available.

Valuation Date June 30	Total Count	Number	Average					Number			Active/Retired Ratio
			Age	Entry Age	Service	Annual Pay (\$)	% Change	Retired Reemployed	Inactive Vested	Retired	
2001	255,963	154,610	45.0	33.5	11.5	30,341	4.5%	4,886	32,650	68,703	2.25
2002	264,974	158,467	45.1	33.8	11.3	32,119	5.9%	5,387	34,792	71,715	2.21
2003	268,813	159,310	45.2	33.8	11.4	31,950	-0.5%	6,126	35,375	74,128	2.15
2004	272,573	160,003	45.4	33.8	11.6	33,082	3.5%	6,438	35,788	76,782	2.08
2005	267,214	160,876	45.6	33.8	11.8	34,066	3.0%	6,592	26,919	79,419	2.03
2006	271,007	163,052	45.7	34.0	11.7	35,475	4.1%	8,044	25,918	82,037	1.99
2007	276,421	165,216	45.7	34.0	11.7	36,615	3.2%	7,848	26,435	84,770	1.95
2008	282,778	167,823	45.7	34.1	11.6	38,515	5.2%	8,523	27,626	87,309	1.92
2009	294,076	167,691	46.0	34.2	11.8	40,326	4.7%	8,427	28,240	89,718	1.87
2010	287,611	165,626	46.0	34.1	11.9	40,635	0.8%	8,347	28,472	93,513	1.77
2011	291,825	164,436	45.8	34.1	11.7	40,782	0.4%	8,321	29,077	98,312	1.67
2012	294,996	164,200	45.8	34.2	11.6	42,223	3.5%	8,265	29,119	101,677	1.61
2013	299,793	165,095	45.7	34.1	11.6	42,404	0.4%	9,925	28,443	104,640	1.58
2014	302,558	165,911	45.7	34.1	11.6	44,225	4.3%	9,931	28,713	107,934	1.54
2015	306,154	167,368	45.6	34.1	11.5	45,247	2.3%	10,295	27,659	111,127	1.51
2016	309,572	168,372	45.5	34.0	11.5	46,399	2.5%	10,608	26,960	114,240	1.47
2017	313,401	169,909	45.4	34.1	11.3	47,425	2.2%	10,787	25,984	117,508	1.45
2018	316,824	170,376	45.3	34.0	11.3	47,989	1.2%	10,601	25,693	120,755	1.41
2019	320,574	172,272	45.2	34.0	11.2	48,658	1.4%	10,793	24,789	123,513	1.39
2020	322,789	170,340	45.0	33.8	11.2	50,611	4.0%	10,530	26,091	126,358	1.35
2021	327,172	173,304	44.8	33.7	11.1	51,497	1.8%	9,321	25,279	128,589	1.35
2022	333,301	176,147	44.6	33.8	10.8	52,680	2.3%	8,520	25,734	131,420	1.34
2023	339,767	179,875	44.5	33.9	10.6	54,987	4.4%	8,412	26,317	133,575	1.35
2024	345,661	183,348	44.4	33.9	10.5	56,384	2.5%	8,551	26,543	135,770	1.35
2025	350,694	186,174	44.2	33.8	10.4	58,427	3.6%	8,607	26,870	137,650	1.35

Note: The Total Count figure represents the number of members valued in this report, with the exception of nonvested inactive members. The Retired Reemployed figure represents the number of members who have both an in-pay record and a not-in-pay record.



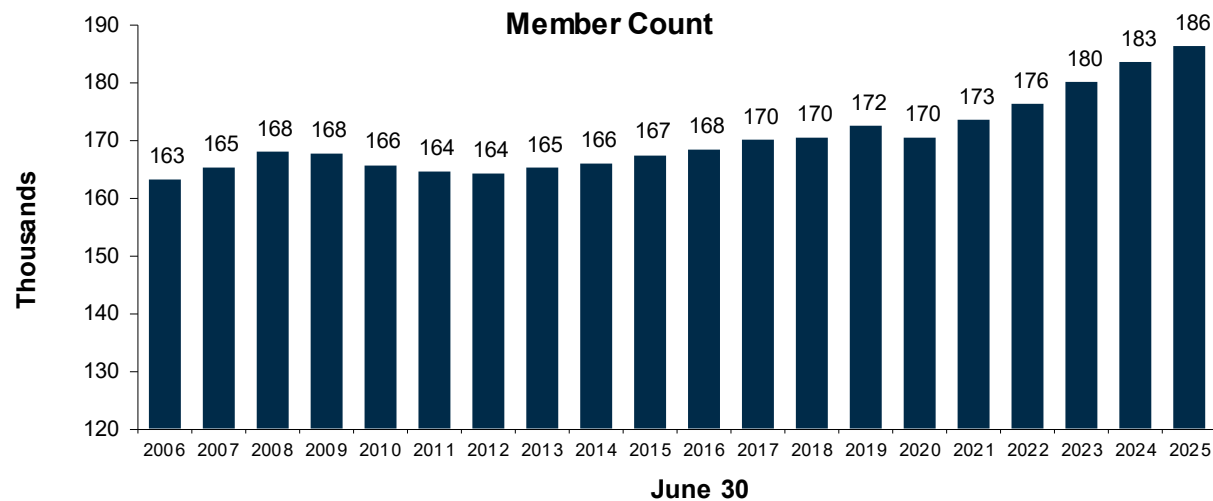


APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

SUMMARY OF ACTIVE MEMBERS

	Regular Membership	Sheriffs & Deputies	Protection Occupations	Total 6/30/2025	Total 6/30/2024	Percent Change
Total Active Members	176,413	1,729	8,032	186,174	183,348	1.5
Projected Payroll* (millions)	\$10,168	\$168	\$541	\$10,878	\$10,338	5.2
Average Age	44.4	40.3	39.8	44.2	44.4	(0.5)
Average Entry Age	34.0	26.7	30.6	33.8	33.9	(0.3)
Average Projected Salary	\$57,639	\$97,039	\$67,417	\$58,427	\$56,384	3.6
Retired Reemployed	7,677	139	337	8,153	8,035	1.5

* Payroll figures as of June 30 are actual amounts paid during the prior fiscal year, increased by the assumed salary increase factor for the upcoming fiscal year.



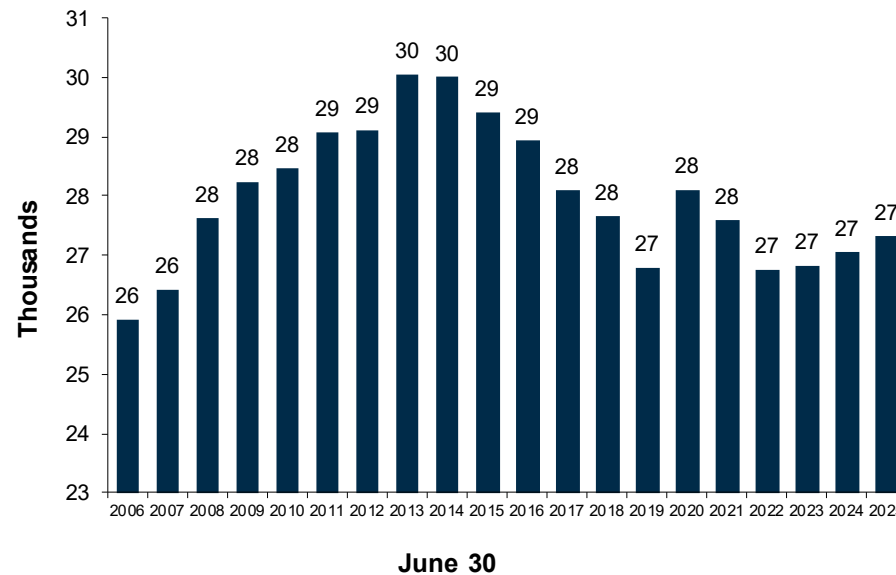


APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

SUMMARY OF INACTIVE VESTED MEMBERS

	Regular Membership	Sheriffs & Deputies	Protection Occupations	Total 6/30/2025	Total 6/30/2024	Percent Change
Inactive Vested	25,329	179	1,362	26,870	26,543	1.2%
Inactive Retired Reemployed	<u>437</u>	<u>3</u>	<u>14</u>	<u>454</u>	<u>516</u>	(12.0%)
Total Inactive Vested	25,766	182	1,376	27,324	27,059	1.0%

Note: As of June 30, 2025 there are also 71,278 nonvested inactive members due a refund of employee contribution.

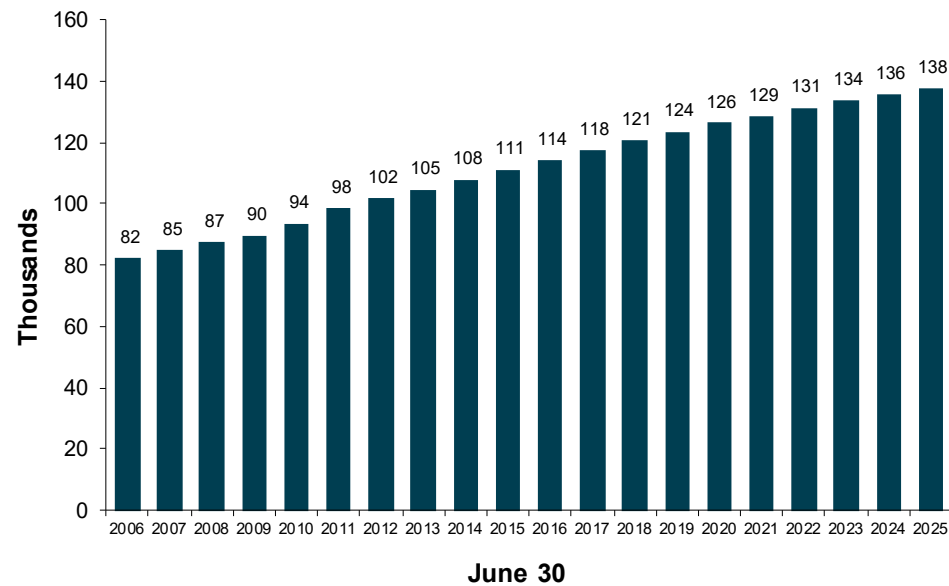




APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

SUMMARY OF RETIRED MEMBERS AND BENEFICIARIES

Regular Membership	Sheriffs & Deputies	Protection Occupations	Total 6/30/2025	Total 6/30/2024	Percent Change
131,947	1,342	4,361	137,650	135,770	1.4%





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

AGE AND SERVICE DISTRIBUTION AS OF JUNE 30, 2025 FOR ACTIVE MEMBERS*

Males and Females - Regular Membership

		Years of Service																			
		0 to 5		5 to 10		10 to 15		15 to 20		20 to 25		25 to 30		30 to 35		35 to 40		40 and over		Total	
Age	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	
Under 25	10,643	24,895	97	39,496	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	10,740	25,027	
25-29	12,715	41,506	3,726	51,415	29	50,138	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	16,470	43,763	
30-34	8,310	42,421	7,301	56,072	2,358	62,264	30	53,390	0	NA	0	NA	0	NA	0	NA	0	NA	17,999	50,576	
35-39	7,761	42,283	5,169	58,289	6,062	67,284	1,752	71,373	17	65,765	0	NA	0	NA	0	NA	0	NA	20,761	56,042	
40-44	7,202	42,068	4,890	56,247	4,065	68,987	4,909	76,077	1,700	80,467	25	73,954	0	NA	0	NA	0	NA	22,791	60,136	
45-49	5,750	42,726	4,262	54,276	3,591	64,694	3,174	75,153	4,392	80,819	1,435	83,594	13	65,767	0	NA	0	NA	22,617	62,944	
50-54	4,333	43,583	3,193	54,144	2,983	61,607	2,700	68,793	2,397	77,261	3,877	84,843	975	86,571	12	92,409	0	NA	20,470	65,017	
55-59	4,106	40,393	2,734	52,078	2,421	56,357	2,496	62,321	2,392	67,913	2,842	76,748	2,389	87,049	426	84,466	7	76,620	19,813	61,842	
60-64	4,431	31,209	2,418	45,266	1,873	52,933	1,904	56,511	1,960	60,910	1,935	65,113	948	71,930	700	85,938	269	79,985	16,438	51,692	
65-69	3,663	19,652	1,694	32,671	874	43,097	691	52,660	550	53,899	510	57,115	282	62,073	178	70,631	243	81,409	8,685	35,696	
70 & over	3,945	19,162	1,933	19,588	877	19,216	287	20,474	100	29,196	72	29,398	34	43,178	20	73,544	38	76,502	7,306	20,130	
Totals	72,859	36,544	37,417	51,591	25,133	61,384	17,943	68,539	13,508	73,472	10,696	77,234	4,641	81,962	1,336	83,302	557	80,326	184,090	52,803	

*Including retired/reemployed members. Salary amounts are actual reported earnings from prior year, annualized for members with less than one year of service.





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

AGE AND SERVICE DISTRIBUTION AS OF JUNE 30, 2025 FOR ACTIVE MEMBERS*

Males and Females - Sheriffs and Deputies

Years of Service																				
0 to 5		5 to 10		10 to 15		15 to 20		20 to 25		25 to 30		30 to 35		35 to 40		40 and over		Total		
Age	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary
Under 25	61	70,238	1	66,434	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	62	70,177
25-29	130	75,238	89	87,786	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	219	80,337
30-34	64	73,565	142	89,319	57	92,801	1	87,346	0	NA	0	NA	0	NA	0	NA	0	NA	264	86,244
35-39	43	74,674	73	89,696	121	93,570	54	96,590	0	NA	0	NA	0	NA	0	NA	0	NA	291	90,366
40-44	14	75,880	44	87,067	70	93,902	118	94,762	49	98,790	0	NA	0	NA	0	NA	0	NA	295	93,183
45-49	15	85,585	24	88,115	25	89,575	46	94,542	101	105,462	59	111,248	1	151,161	1	70,548	0	NA	272	100,823
50-54	17	55,601	10	83,862	9	97,504	21	97,633	38	96,752	65	108,912	20	115,384	0	NA	0	NA	180	98,751
55-59	33	39,647	10	38,628	6	78,008	7	101,340	21	101,995	22	107,905	22	112,753	12	117,942	0	NA	133	84,840
60-64	28	34,634	12	39,912	4	67,427	6	76,275	4	107,175	7	99,369	5	108,882	10	119,912	6	123,051	82	70,514
65-69	22	31,585	8	30,962	4	65,927	0	NA	0	NA	2	92,270	1	114,826	0	NA	1	93,594	38	42,085
70 & over	16	26,255	5	24,582	5	4,154	4	18,181	1	23,575	0	NA	0	NA	0	NA	1	128,090	32	24,630
Totals	443	64,715	418	84,044	301	90,777	257	93,868	214	101,697	155	109,013	49	114,258	23	116,738	8	119,999	1,868	87,340

*Including retired/reemployed members. Salary amounts are actual reported earnings from prior year, annualized for members with less than one year of service.





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

AGE AND SERVICE DISTRIBUTION AS OF JUNE 30, 2025 FOR ACTIVE MEMBERS*

Males and Females - Protection Occupation

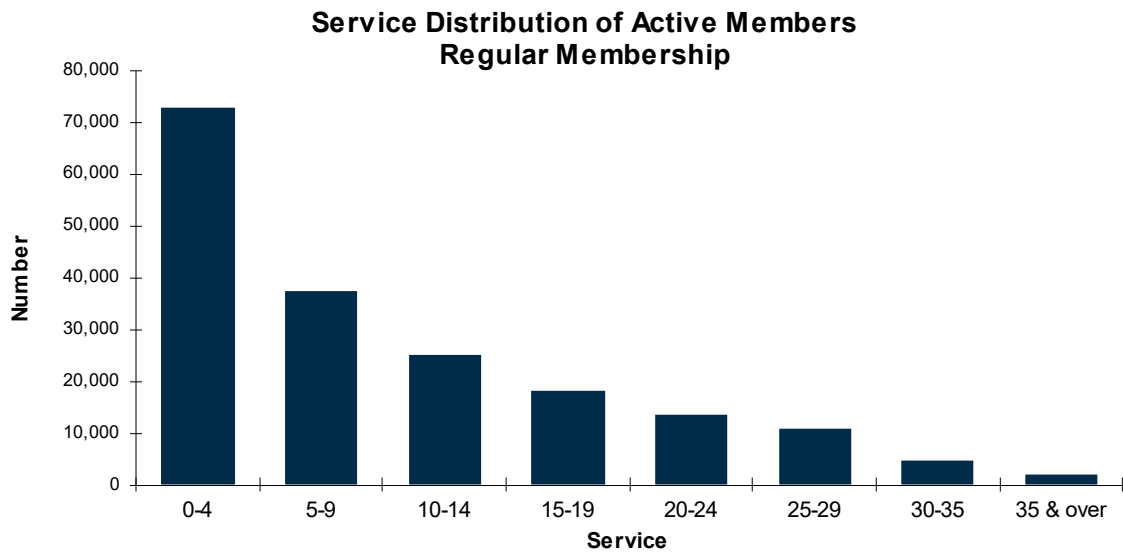
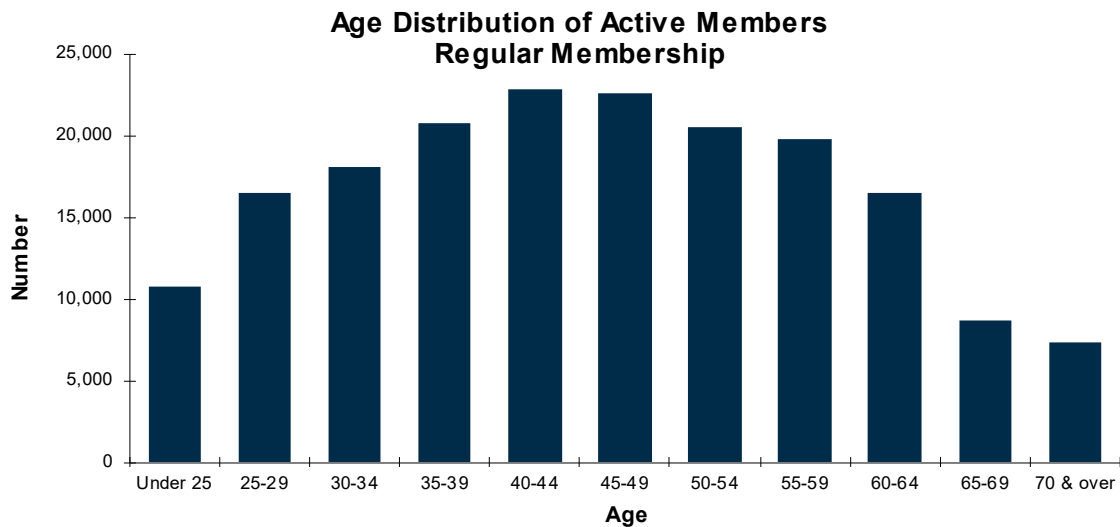
Age	Years of Service																		Total	
	0 to 5		5 to 10		10 to 15		15 to 20		20 to 25		25 to 30		30 to 35		35 to 40		40 and over			
	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary	No.	Avg. Salary
Under 25	849	43,091	9	59,342	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	858	43,261
25-29	870	51,661	277	61,961	3	54,494	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	1,150	54,149
30-34	511	51,868	378	67,600	142	73,496	1	67,824	0	NA	0	NA	0	NA	0	NA	0	NA	1,032	60,622
35-39	420	46,405	323	68,247	253	80,091	99	80,348	2	97,388	0	NA	0	NA	0	NA	0	NA	1,097	63,761
40-44	319	50,963	175	69,833	202	80,092	254	83,791	71	85,932	4	96,566	0	NA	0	NA	0	NA	1,025	70,661
45-49	237	49,241	132	61,798	121	73,792	175	79,604	179	84,397	89	82,027	2	73,543	0	NA	0	NA	935	69,777
50-54	173	57,264	108	63,193	95	71,668	121	71,365	132	80,515	199	86,124	43	92,429	3	98,114	0	NA	874	73,468
55-59	164	41,993	81	68,250	67	59,301	86	76,178	78	73,096	88	80,564	70	93,342	9	74,222	0	NA	643	66,769
60-64	140	39,844	68	57,379	51	62,309	50	70,526	45	78,372	32	80,226	10	77,503	12	105,163	4	84,034	412	59,833
65-69	81	21,656	39	33,663	30	39,694	14	41,486	11	68,333	19	42,742	4	52,876	4	52,525	6	82,108	208	35,176
70 & over	72	22,820	39	17,730	12	14,119	8	30,449	1	4,954	2	47,668	0	NA	1	120,038	0	NA	135	21,984
Totals	3,836	47,242	1,629	63,800	976	73,043	808	77,689	519	80,955	433	81,731	129	90,248	29	88,084	10	82,878	8,369	61,136

*Including retired/reemployed members. Salary amounts are actual reported earnings from prior year, annualized for members with less than one year of service.





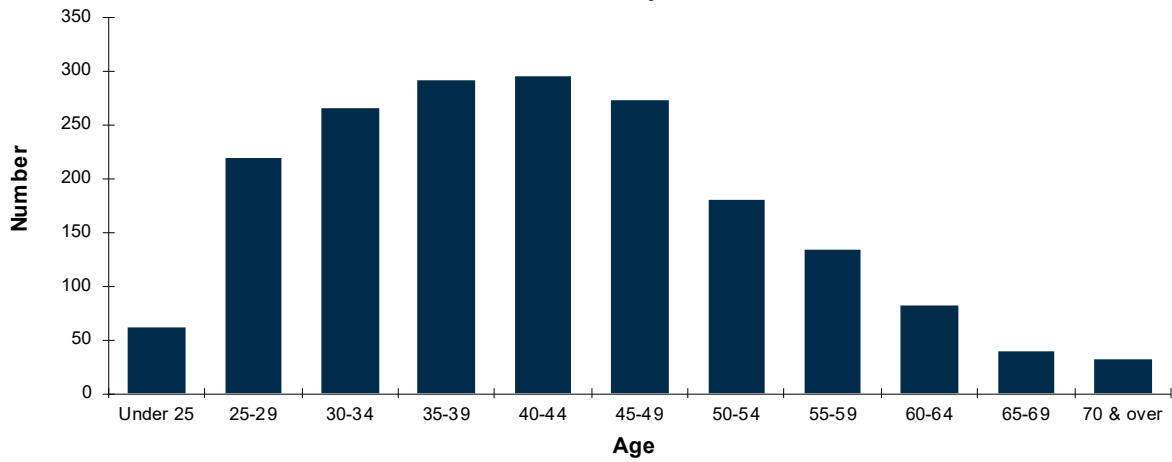
APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP



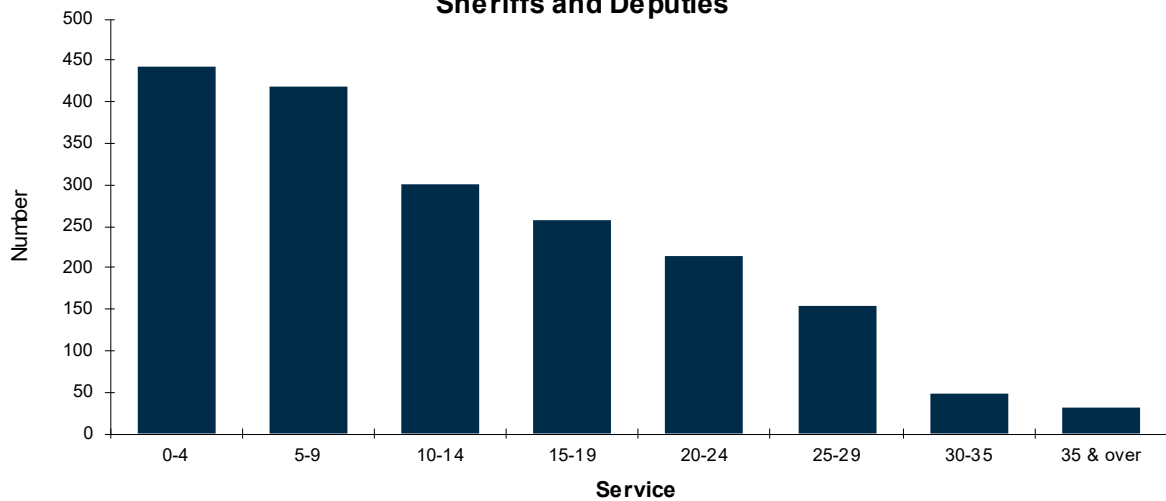


APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

**Age Distribution of Active Members
Sheriffs and Deputies**

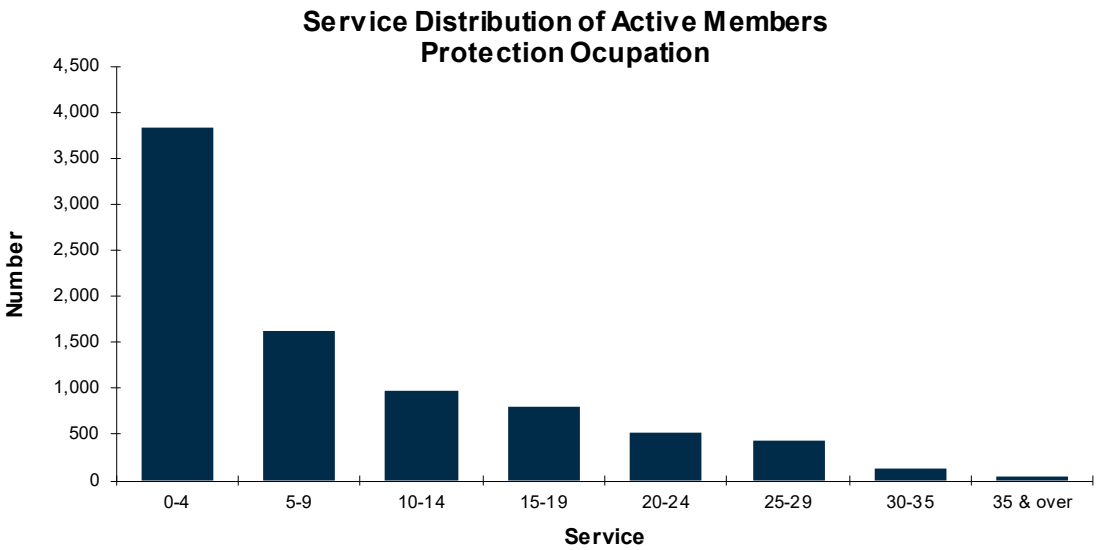
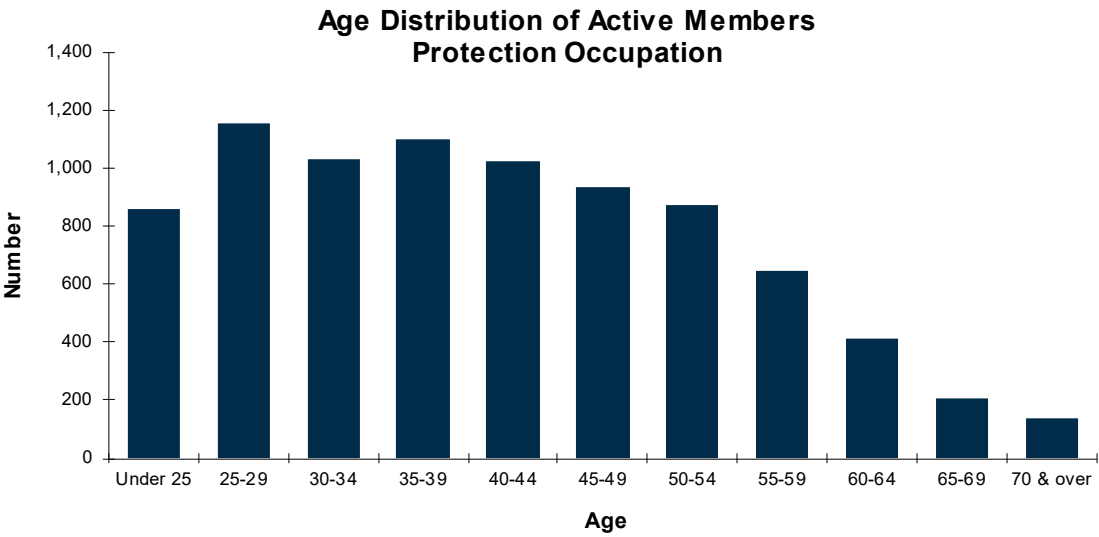


**Service Distribution of Active Members
Sheriffs and Deputies**





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

AGE AND SERVICE DISTRIBUTION AS OF JUNE 30, 2025 FOR INACTIVE VESTED MEMBERS*

Males and Females - Regular Membership

Age	Years of Service																		Total	
	0 to 5		5 to 10		10 to 15		15 to 20		20 to 25		25 to 30		30 to 35		35 to 40		40 and over			
	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.		
Under 25	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
25-29	0	NA	47	36,093	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	47	36,093
30-34	0	NA	651	44,650	111	48,266	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	762	45,177
35-39	41	17,244	1,104	42,501	641	53,424	49	53,789	1	62,397	0	NA	0	NA	0	NA	0	NA	1,836	46,063
40-44	261	26,132	1,424	40,255	984	52,310	336	63,393	17	63,574	0	NA	0	NA	0	NA	0	NA	3,022	45,664
45-49	280	26,143	1,584	37,622	951	47,317	526	57,985	209	70,108	15	76,421	0	NA	0	NA	0	NA	3,565	44,379
50-54	276	25,104	1,630	34,163	1,081	43,232	548	54,231	289	61,063	103	67,823	10	72,500	1	83,276	0	NA	3,938	41,774
55-59	329	23,335	1,706	30,443	1,194	37,219	635	45,732	327	55,091	160	68,599	39	74,562	1	56,634	0	NA	4,391	37,588
60-64	343	18,083	1,579	25,718	1,030	30,691	523	32,976	251	47,044	80	52,351	11	51,989	6	58,905	0	NA	3,823	29,451
65-69	919	10,117	908	17,113	408	22,758	160	26,233	65	28,847	26	22,546	8	21,999	4	80,542	0	NA	2,498	16,525
70 & over	1,244	8,059	426	14,212	121	17,542	56	17,389	21	19,653	10	19,986	2	26,629	2	47,109	2	64,255	1,884	10,650
Totals	3,693	14,887	11,059	32,953	6,521	41,445	2,833	47,868	1,180	55,554	394	61,122	70	63,344	14	64,980	2	64,255	25,766	35,721

*Including inactive retired/reemployed members





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

AGE AND SERVICE DISTRIBUTION AS OF JUNE 30, 2025 FOR INACTIVE VESTED MEMBERS*

Males and Females - Sheriffs and Deputies

Age	Years of Service																		Total	
	0 to 5		5 to 10		10 to 15		15 to 20		20 to 25		25 to 30		30 to 35		35 to 40		40 and over			
	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.
Under 25	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
25-29	5	70,786	6	64,312	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	11	67,255
30-34	4	62,488	15	65,560	4	69,769	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	23	65,758
35-39	4	63,367	21	66,193	10	63,136	3	75,224	0	NA	0	NA	0	NA	0	NA	0	NA	38	65,804
40-44	5	45,918	13	52,653	5	61,813	6	76,431	3	83,339	0	NA	0	NA	0	NA	0	NA	32	60,367
45-49	3	46,326	10	52,509	6	50,553	6	71,024	5	67,488	2	84,493	0	NA	0	NA	0	NA	32	59,374
50-54	3	37,415	9	47,225	12	52,262	7	66,063	4	74,772	1	73,911	0	NA	0	NA	0	NA	36	55,552
55-59	0	NA	3	35,238	1	78,348	0	NA	1	79,933	0	NA	0	NA	0	NA	0	NA	5	52,799
60-64	1	22,656	1	49,610	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	2	36,133
65-69	0	NA	1	12,524	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	1	12,524
70 & over	1	5,125	0	NA	1	56,955	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	2	31,040
Totals	26	52,536	79	57,744	39	58,597	22	71,493	13	74,345	3	80,966	0	NA	0	NA	0	NA	182	60,413

*Including inactive retired/reemployed members





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

AGE AND SERVICE DISTRIBUTION AS OF JUNE 30, 2025 FOR INACTIVE VESTED MEMBERS*

Males and Females - Protection Occupation

		Years of Service																			
		0 to 5		5 to 10		10 to 15		15 to 20		20 to 25		25 to 30		30 to 35		35 to 40		40 and over		Total	
Age	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	No.	Avg. Sal.	
Under 25	2	24,577	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	2	24,577	
25-29	21	44,929	30	43,109	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	51	43,859	
30-34	39	35,540	88	46,429	5	51,885	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	132	43,418	
35-39	38	36,354	122	36,179	34	49,763	3	60,142	0	NA	0	NA	0	NA	0	NA	0	NA	197	38,922	
40-44	27	32,417	115	34,280	54	50,079	20	49,615	2	63,418	0	NA	0	NA	0	NA	0	NA	218	39,637	
45-49	23	25,285	91	32,644	64	46,404	32	56,604	21	67,098	3	59,688	0	NA	0	NA	0	NA	234	42,399	
50-54	11	33,125	69	32,761	42	38,771	24	50,770	23	61,438	16	62,459	3	92,223	0	NA	0	NA	188	43,409	
55-59	28	21,110	60	22,531	32	31,677	13	32,448	7	46,637	8	68,556	1	117,281	0	NA	0	NA	149	29,333	
60-64	33	22,026	27	17,224	26	24,504	14	30,704	7	38,490	6	39,853	0	NA	0	NA	0	NA	113	24,490	
65-69	32	11,415	9	14,358	14	11,381	6	8,000	3	18,399	0	NA	0	NA	0	NA	1	87,572	65	12,994	
70 & over	15	2,542	8	6,850	2	20,272	1	1,691	1	3,877	0	NA	0	NA	0	NA	0	NA	27	5,150	
Totals	269	27,148	619	33,872	273	40,676	113	45,167	64	56,311	33	59,575	4	98,487	0	NA	1	87,572	1,376	36,722	

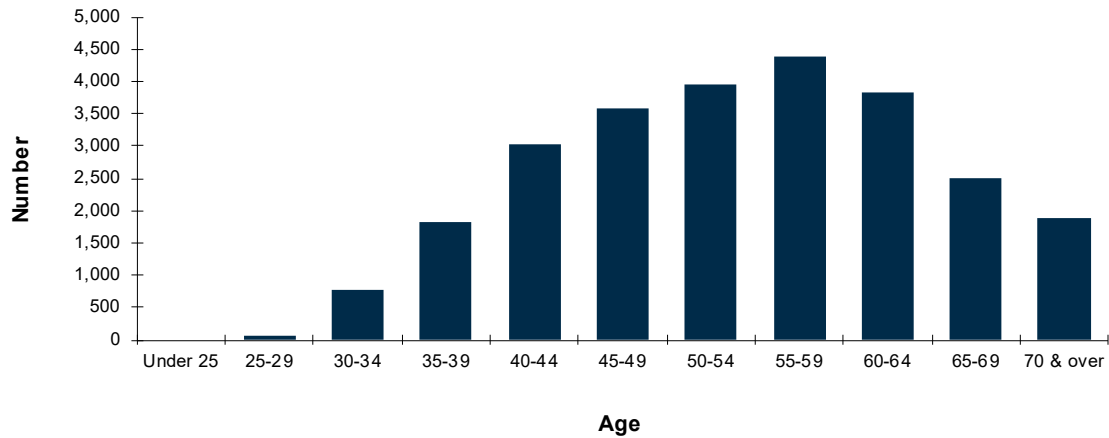
*Including inactive retired/reemployed members



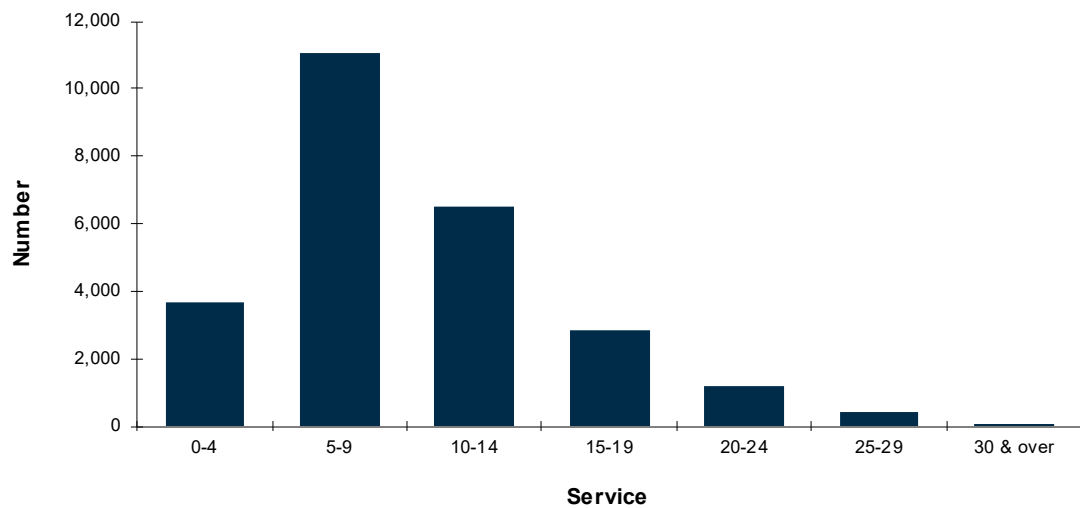


APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

**Age Distribution of Inactive Vested Members
Regular Membership**



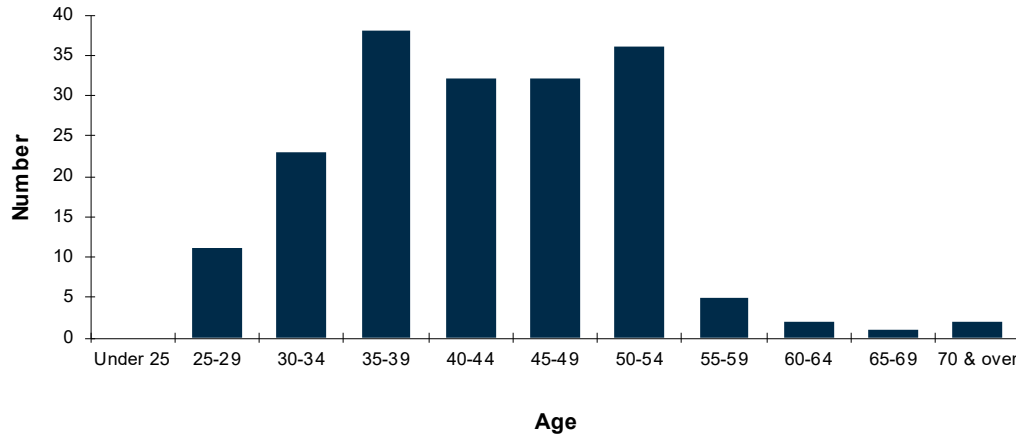
**Service Distribution of Inactive Vested Members
Regular Membership**



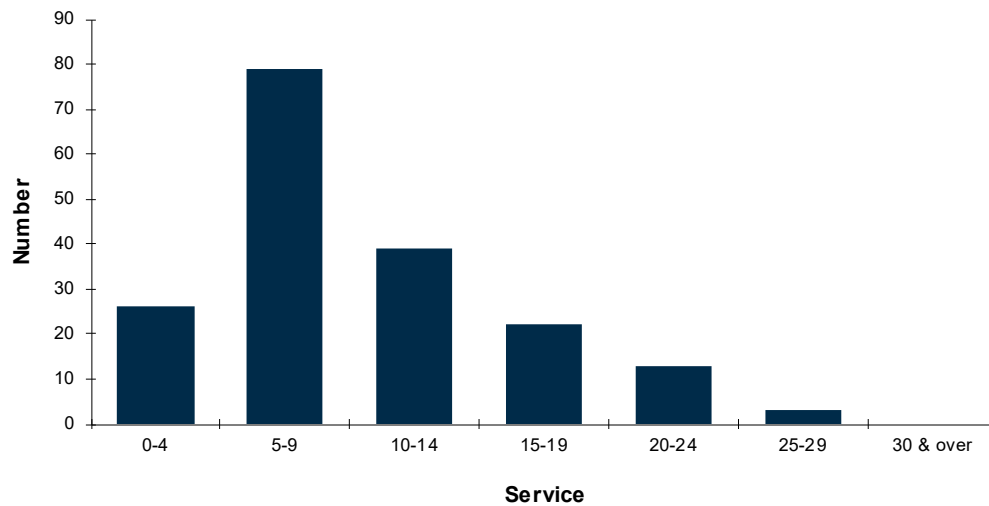


APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

**Age Distribution of Inactive Vested Members
Sheriffs and Deputies**



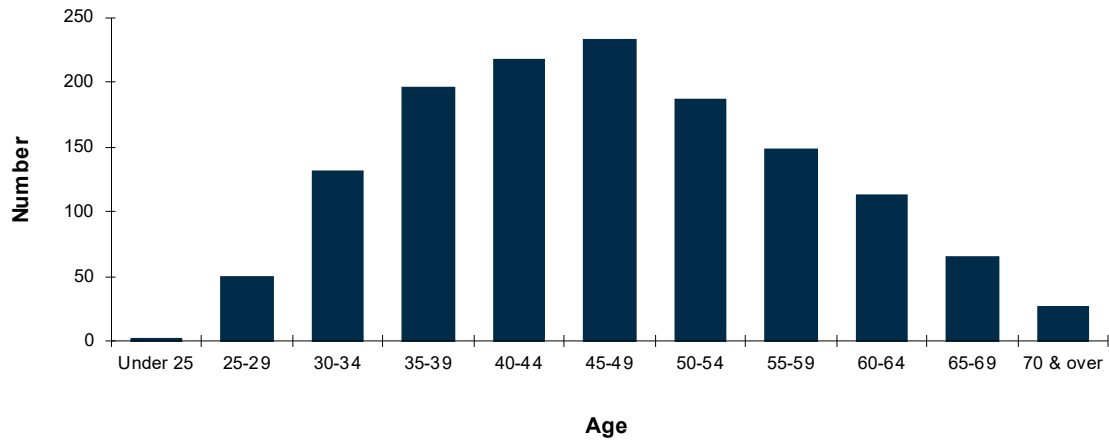
**Service Distribution of Inactive Vested Members
Sheriffs and Deputies**



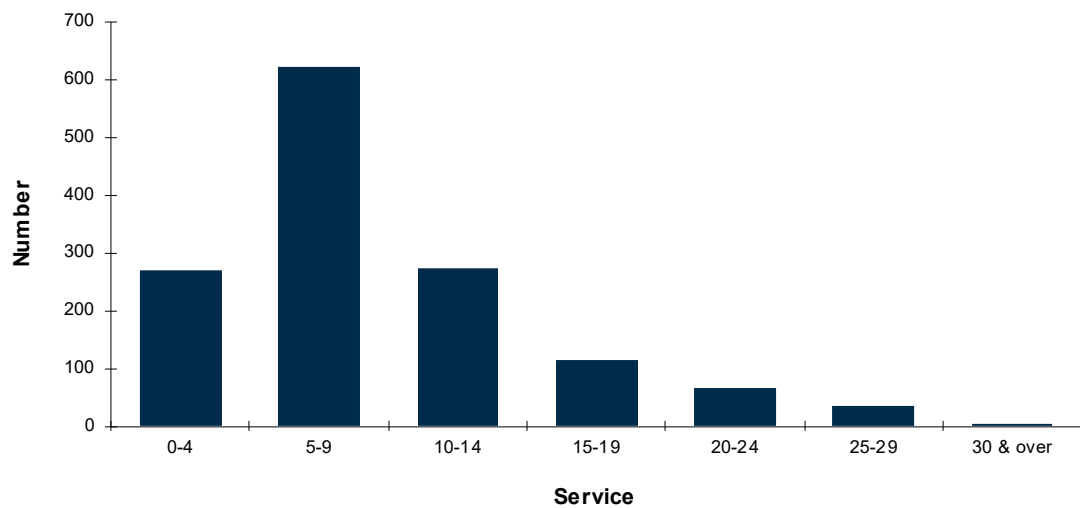


APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

**Age Distribution of Inactive Vested Members
Protection Occupation**



**Service Distribution of Inactive Vested Members
Protection Occupation**





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

ANALYSIS OF RETIREES AND BENEFICIARIES

Males and Females - Regular Membership

	Number of Members and Beneficiaries									Average
Age	Option 1	Option 2	Option 3	Option 4	Contingent Beneficiary	Option 5	Option 6	Period Certain	Total	Annual Benefit
Under 40	3	0	1	0	72	0	1	25	102	\$9,538
40 to 44	5	3	3	1	39	2	8	11	72	8,039
45 to 49	17	11	5	0	59	1	11	10	114	11,158
50 to 54	34	19	9	21	90	5	24	13	215	13,571
55 to 59	388	489	188	202	173	158	782	5	2,385	30,468
60 to 64	1,784	2,406	943	851	390	846	3,566	12	10,798	27,912
65 to 69	4,074	6,002	2,217	1,889	777	1,973	7,517	20	24,469	23,184
70 to 74	5,640	8,019	3,263	2,302	1,214	2,436	8,234	25	31,133	20,553
75 to 79	5,527	7,360	3,780	1,851	1,693	2,333	5,917	13	28,474	18,617
80 to 84	3,668	4,289	2,555	1,406	1,469	1,649	2,064	8	17,108	15,257
85 to 89	2,586	2,439	1,506	1,166	1,252	1,151	455	4	10,559	12,429
90 to 94	1,278	1,120	618	595	643	591	33	0	4,878	9,867
95 to 99	410	402	156	115	203	152	0	0	1,438	7,063
100 & up	62	57	20	11	25	27	0	0	202	5,396
Counts	25,476	32,616	15,264	10,410	8,099	11,324	28,612	146	131,947	\$19,468
% of Total	19.3%	24.7%	11.6%	7.9%	6.1%	8.6%	21.7%	0.1%	100.0%	





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

ANALYSIS OF RETIREES AND BENEFICIARIES

Males and Females - Sheriffs and Deputies

	Number of Members and Beneficiaries									Average
Age	Option 1	Option 2	Option 3	Option 4	Contingent Beneficiary	Option 5	Option 6	Period Certain	Total	Annual Benefit
Under 40	1	0	0	1	0	0	0	0	2	\$40,625
40 to 44	3	0	2	2	1	0	2	0	10	34,736
45 to 49	0	1	0	4	4	1	1	0	11	30,548
50 to 54	9	10	3	16	3	0	36	0	77	54,374
55 to 59	32	17	9	30	5	7	91	0	191	48,499
60 to 64	27	22	8	42	14	9	94	0	216	45,191
65 to 69	41	30	19	47	20	10	109	0	276	40,418
70 to 74	29	33	20	44	26	15	82	0	249	36,530
75 to 79	34	23	6	22	26	9	48	0	168	29,659
80 to 84	17	10	9	10	15	5	15	0	81	23,690
85 to 89	7	4	2	12	12	3	3	0	43	20,018
90 to 94	7	1	2	2	5	0	0	0	17	13,658
95 to 99	0	0	0	0	1	0	0	0	1	12,144
100 & up	0	0	0	0	0	0	0	0	0	NA
Counts	207	151	80	232	132	59	481	0	1,342	\$38,923
% of Total	15.4%	11.3%	6.0%	17.3%	9.8%	4.4%	35.8%	0.0%	100.0%	





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

ANALYSIS OF RETIREES AND BENEFICIARIES

Males and Females - Protection Occupation

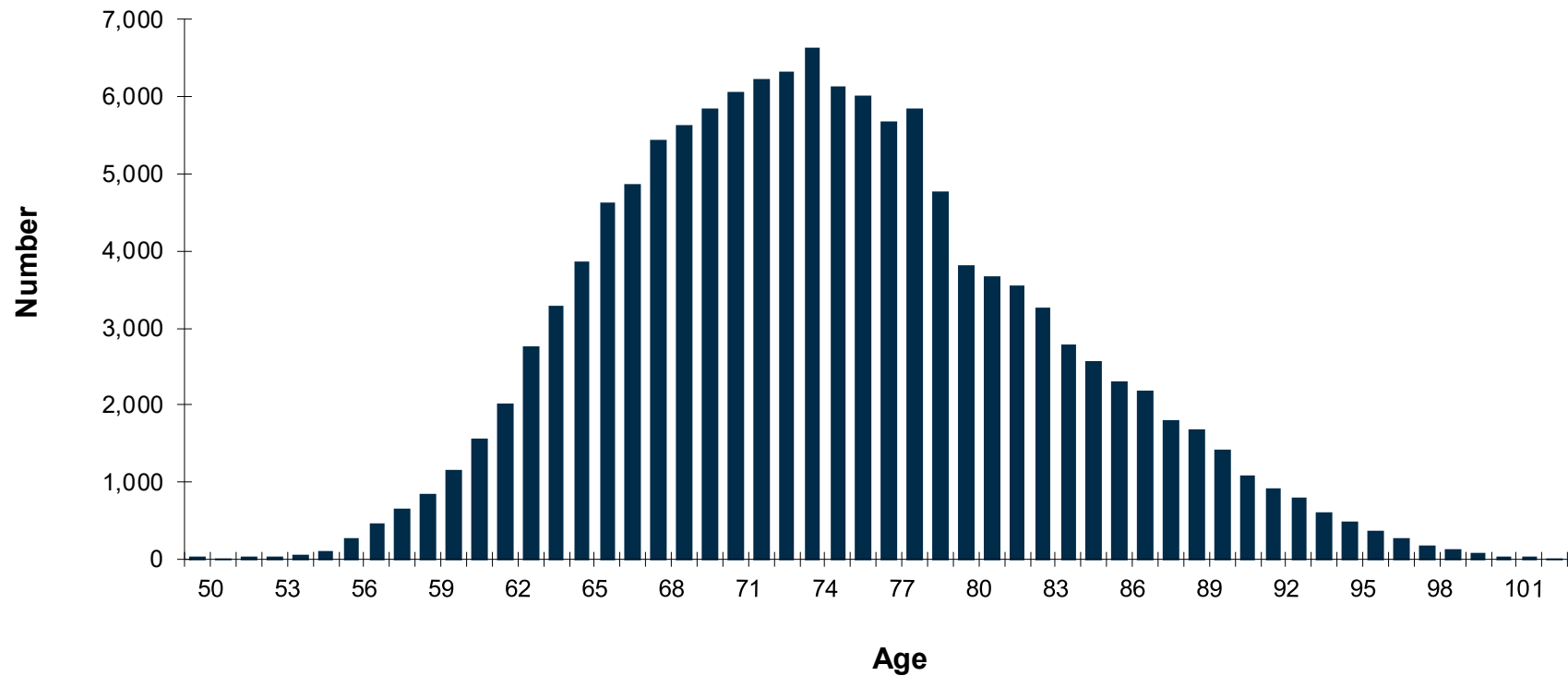
	Number of Members and Beneficiaries									Average
Age	Option 1	Option 2	Option 3	Option 4	Contingent Beneficiary	Option 5	Option 6	Period Certain	Total	Annual Benefit
Under 40	1	0	2	2	5	0	0	0	10	\$18,378
40 to 44	0	2	0	4	4	0	0	1	11	19,846
45 to 49	1	1	0	3	8	0	1	1	15	20,777
50 to 54	4	1	2	6	7	3	12	1	36	27,427
55 to 59	69	55	36	73	21	14	181	0	449	38,441
60 to 64	126	135	68	137	25	28	326	1	846	33,763
65 to 69	156	165	53	167	58	50	343	2	994	31,389
70 to 74	179	185	52	125	67	48	290	0	946	26,730
75 to 79	104	123	45	86	74	26	174	1	633	22,945
80 to 84	55	55	19	38	52	11	40	0	270	17,360
85 to 89	27	15	6	24	28	6	12	0	118	15,700
90 to 94	5	3	0	4	12	1	1	0	26	11,342
95 to 99	2	0	1	0	3	0	0	0	6	9,397
100 & up	0	0	0	0	1	0	0	0	1	9,479
Counts	729	740	284	669	365	187	1,380	7	4,361	\$28,763
% of Total	16.7%	17.0%	6.5%	15.3%	8.4%	4.3%	31.6%	0.2%	100.0%	





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

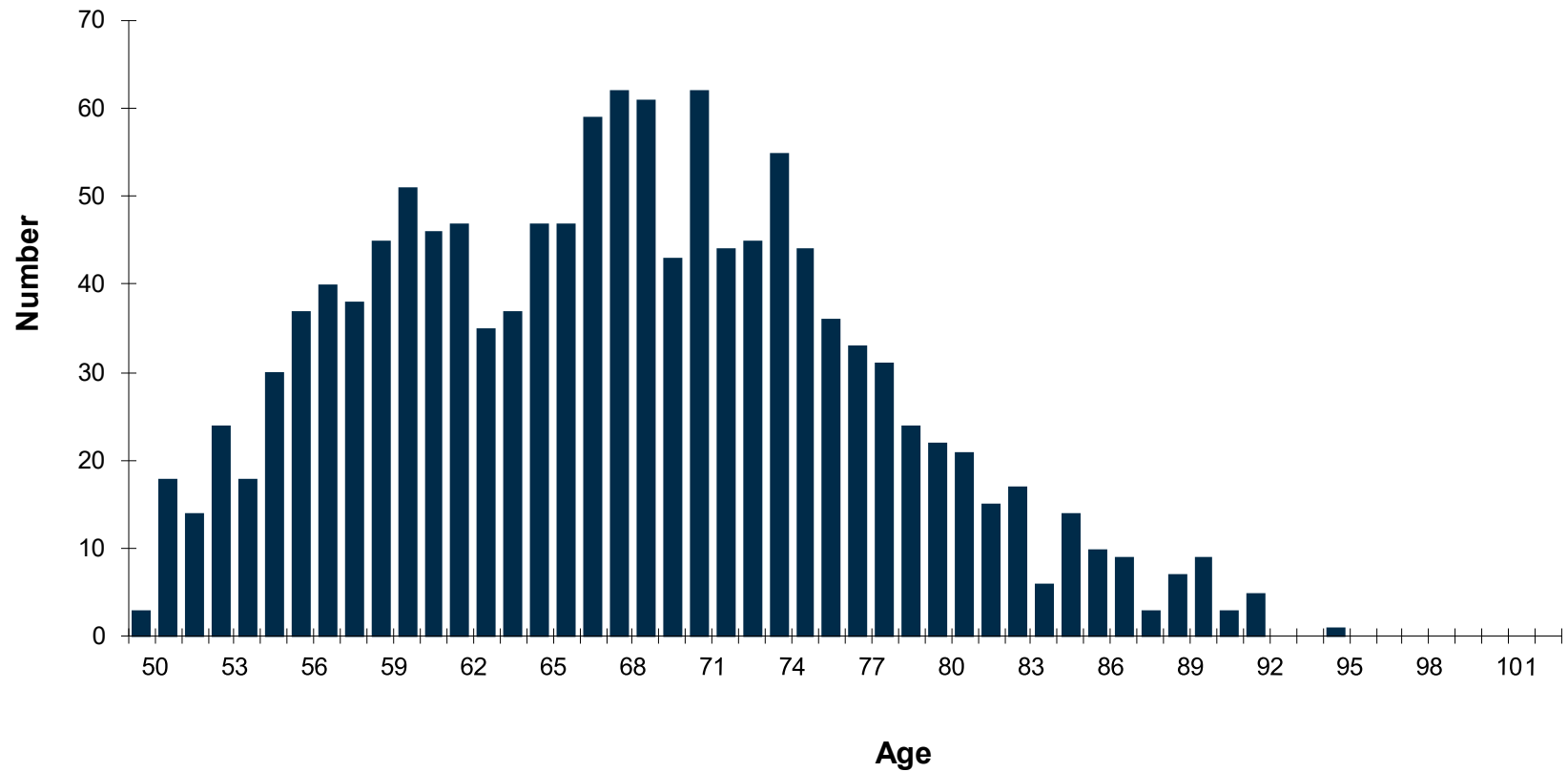
Age Distribution of Retirees & Beneficiaries Regular Membership





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

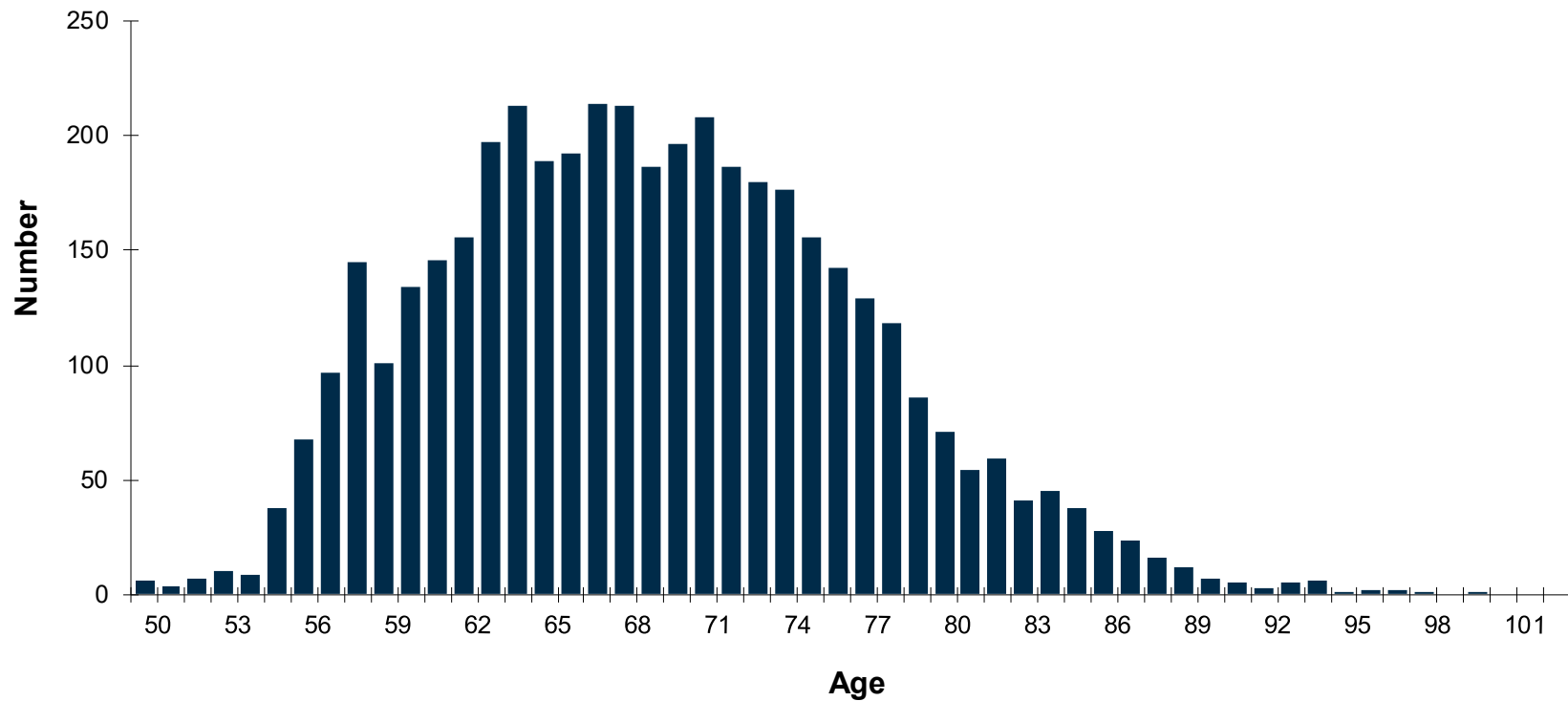
Age Distribution of Retirees & Beneficiaries Sheriffs and Deputies





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

Age Distribution of Retirees & Beneficiaries Protection Occupation





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

SUMMARY OF DATA FILE RECONCILIATION

The following table reconciles the data we received from IPERS to the final membership counts used in the valuation.

Records on the in-pay data file	137,835
Removed those no longer entitled to benefits	(269)
Removed those who have filed for benefits but are not receiving	0
Added those still entitled to benefits	<u>84</u>
Records used in the valuation	137,650
Records on the not-in-pay data file	294,818
Records removed because the member has received all benefits	(34)
Records removed because member is deceased	<u>(1,855)</u>
Records used in the valuation*	292,929

* These records are allocated as follows:

Active members	186,174
Retired, reemployed members	8,607
Vested inactive members	26,870
Nonvested inactive members	<u>71,278</u>
Total	292,929

Nonvested inactive members include deceased vested inactive members with employee contributions still held by the System. Records that had no remaining benefit or had passed away prior to the valuation date were removed.





APPENDIX A – SUMMARY STATISTICS ON SYSTEM MEMBERSHIP

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APPENDIX B SUMMARY OF PLAN PROVISIONS





APPENDIX B – SUMMARY OF PLAN PROVISIONS

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APPENDIX B – SUMMARY OF PLAN PROVISIONS

Chapter 97B of the Iowa code sets out the IPERS provisions, which are briefly summarized as follows:

Participation:	In general, the System covers people in non-federal public employment within the State of Iowa. Membership is mandatory if a person is in covered employment. Exceptions to this are set out in the law. Notable exceptions are those covered by another public system in Iowa (such as judges, state patrol, and policemen and firemen in cities having civil service), employees of the Regents' institutions, and employees of the community colleges who elect alternative coverage.
Service Credit:	A member will receive membership credit for service rendered after July 4, 1953 (special rules apply to service before this date). Service is counted to the complete quarter of a calendar year. A member will not receive credit for more than four quarters of service in a calendar year regardless of the number of employers reporting covered wages for that member. A calendar year is the 12-month period beginning January 1 and ending December 31. Members may purchase service under specified conditions. To make such a purchase, the member must pay the actuarial cost of such service.

REGULAR MEMBERS:

Average Salary:	The average of the member's highest three years of covered wages. Effective July 1, 2012 the average of a member's highest five years of covered wages, but not less than the member's highest three years as of June 30, 2012, if vested at that time.
-----------------	---

Age and Service Requirements for Benefits:

Normal Retirement	Earliest of the first day of the month of the member's 65 th birthday, age 62 with 20 years of service or Rule of 88 (age plus service equals/exceeds 88), with a minimum of age 55.
Early Retirement	First day of any month starting with the month of the member's 55 th birthday but preceding the normal retirement date.
Inactive Vested Benefit	Four years of service (seven years effective July 1, 2012). Prior to July 1, 2005 inactive members could become eligible for a vested benefit merely by reaching age 55.
Pre-retirement Death Benefit	Upon death of a member before benefits have started.
Disability Benefit	Upon meeting requirements to be vested, if the active or inactive member begins receiving federal Social Security disability or Railroad Retirement disability benefits.





APPENDIX B – SUMMARY OF PLAN PROVISIONS

Retirement Benefits:

Normal Retirement

An annuity equal to 2% of Average Salary for each year of service up to 30 years plus 1% of Average Salary for each of the next 5 years of service. Maximum years of service recognized for benefit accrual purposes is 35 with a resulting maximum benefit of 65% of Average Salary (Option 2).

Early Retirement

An annuity, determined in the same manner as for normal retirement. However, a reduction of 0.25% per month is applied for each month the benefit commences prior to normal retirement age (based on service at early retirement). Effective July 1, 2012, the reduction changed to 0.50% per month and applies to each month that the benefit commences before age 65. Transition rules apply if members have service both before and after July 1, 2012.

Pre-retirement Death Benefits

Beneficiaries of members may receive a lump sum determined by a formula that includes how much the member contributed to IPERS, years of service, highest year's salary, and other factors. Beneficiaries may have the option of receiving a monthly benefit based on the present value of the member's accrued benefit at death.

Disability Benefits

An annuity, payable immediately, equal to the Normal Retirement Benefit without an early retirement adjustment.

Termination Benefits:

Less than four* years of Service (Nonvested)

A refund of all of the member's accumulated contributions.

Four* or more years of Service (Vested)

At the member's election either:

- (1) a refund of all of the member's accumulated contributions plus a portion (years of service divided by 30) of the employer's contributions with interest, or
- (2) a deferred benefit determined in the same manner as for normal retirement. Payments can begin at normal or early retirement.

* Effective July 1, 2012 seven years of service for those not vested at that time.





APPENDIX B – SUMMARY OF PLAN PROVISIONS

Form of Annuity:	The base form, or normal form, is a life annuity with a guaranteed return of employee contributions (Option 2).
Optional Forms of Payment:	<p><i>Option 1:</i> The member specifies a dollar amount, in \$1,000 increments, that the member wishes to have paid to a designated beneficiary following the death of the member. The death benefit will be in the form of a single payment and cannot exceed the amount of a member's own accumulated contributions to IPERS, and it cannot lower the member's benefit as calculated under Option 2 by more than 50%.</p> <p><i>Option 3:</i> After the member's death, all benefits cease.</p> <p><i>Option 4:</i> The member receives a reduced monthly benefit so that a lifetime monthly benefit may be provided after the member's death to the person named by the member as the contingent annuitant. The member specifies what benefit the contingent annuitant will receive after the death of the member. The monthly benefit can be the same as the member's monthly benefit or three-fourths, one-half, or one-fourth of the amount. These choices may be restricted if the contingent annuitant is not the member's spouse and is more than ten years younger than the member.</p> <p><i>Option 5:</i> If the member dies before ten full years (120 months of payments) have ended, the member's beneficiary will receive a monthly benefit for the remainder of the ten years. Members who have attained age 90 as of the first month of entitlement are not allowed to select this option.</p> <p><i>Option 6:</i> The member receives a reduced monthly benefit so that a lifetime monthly benefit may be provided after the member's death to the person named by the member as the contingent annuitant. In addition, the monthly amounts are also reduced to pay for a pop-up feature. The pop-up feature provides that if the contingent annuitant dies before the member, the member's benefit will pop back up to what it would have been under IPERS Option 2, and death benefits may be payable to the member's designated beneficiary if certain conditions are met.</p>
Actuarial Equivalent Lump Sum Payment:	If a vested member is entitled to receive a benefit and it is less than \$50 per month under Option 2, the member shall receive a retirement benefit in an actuarial equivalent lump sum payment. The lump sum will include the member's and employer's accumulated contributions.





APPENDIX B – SUMMARY OF PLAN PROVISIONS

Post-retirement Benefit Increases: Annual dividends are paid to those retired prior to July 1, 1990. Effective with the November 2000 dividend payment, the dividend is adjusted by the least of the following percentages: (1) the change in the CPI, (2) percentage certified to by the actuary as affordable by the System, and (3) 3%.

Favorable Experience Dividend (FED): For members who retired after June 30, 1990, a favorable experience dividend (FED) reserve account has been established under Iowa Code §97B.49F(2). The main purpose of this account is to help offset the negative effects of postretirement inflation. All members and beneficiaries who receive a monthly allowance qualify for favorable experience dividend payments. Each November, IPERS determines if a FED payment should be paid the following January subject to the following conditions:

- The member must be retired one year.
- The FED rate cannot exceed 3%.
- The FED payment will be issued in a lump sum in January.
- The FED payment is not guaranteed.

The formula is as follows:

(December's Monthly benefit) X (12 months) X (Rate) X
(Full calendar years retired) = FED

Source of Funds:

Regular Membership:

Contribution Rates			
Time Period	Employees**	Employer	Total
Prior to 7/1/07	3.70%	5.75%	9.45%
7/1/07 – 6/30/08	3.90%	6.05%	9.95%
7/1/08 – 6/30/09	4.10%	6.35%	10.45%
7/1/09 – 6/30/10	4.30%	6.65%	10.95%
7/1/10 – 6/30/11	4.50%	6.95%	11.45%
7/1/11 – 6/30/12	5.38%	8.07%	13.45%
7/1/12 and later	Determined by Contribution Rate Funding Policy*		

* Change in contribution rate cannot exceed 1.0% per year.

** Employee rate is 40% of total contribution rate.





APPENDIX B – SUMMARY OF PLAN PROVISIONS

SHERIFFS/DEPUTIES AND PROTECTION OCCUPATION:

Average Salary: The average of the member’s highest three years of covered wages

Age and Service Requirements for Benefits:

Normal Retirement	Generally age 55. However, a member of the Sheriffs and Deputy Sheriffs may retire at age 50 with 22 years of service.
Inactive Vested Benefit	Four years of service. Prior to July 1, 2005 inactive members could become eligible for vested benefits merely by reaching age 55.
Pre-retirement Death Benefit	Upon death of a member before benefits have started.
Disability Benefit	Upon meeting requirements to be vested, (i) if the active or inactive member begins receiving federal Social Security or Railroad Retirement disability benefits, or (ii) upon being determined by IPERS to be disabled under the provisions of Iowa Code section 97B.50A. The disability benefits under Iowa Code section 97B.50A must be applied for through IPERS within one (1) year after termination of employment. Benefits under Iowa Code section 97B.50A may be paid for in-service disability or ordinary disability.

Retirement Benefits:

Normal Retirement	<p>All Protection Occupation members and Sheriffs and Deputy Sheriffs who retire before July 1, 2024 receive 60% of Average Salary after completion of 22 years of service, plus an additional 1.5% of Average Salary for years of service greater than 22 but not more than 30. Maximum formula is 72% of Average Salary.</p> <p>Sheriffs and Deputy Sheriffs who retire on or after July 1, 2024 receive 60% of Average Salary after completion of 22 years of service, plus an additional 2.5% of Average Salary for years of service greater than 22 but not more than 30. Maximum formula is 80% of Average Salary.</p>
Pre-retirement Death Benefit	Beneficiaries of members may receive a lump sum determined by a formula that includes how much the member contributed to IPERS, years of service, highest year’s salary, and other factors. Beneficiaries may have the option of receiving a monthly benefit based on the present value of the member’s accrued benefit at death.





APPENDIX B – SUMMARY OF PLAN PROVISIONS

Disability Benefits	<p>An annuity, payable immediately, equal to the Normal Retirement Benefit, without an adjustment.</p> <p>The benefit is the greater of the Normal Retirement Benefit and either 50% (for ordinary disability) or 60% (for in-service disability) of Average Salary.</p>
Termination Benefits:	
Less than four years of Service (Non-vested)	A refund of all the member's accumulated contributions.
Four or more years of Service (Vested)	<p>At the member's election either:</p> <ul style="list-style-type: none">(1) a refund of all the member's accumulated contributions plus a portion (years of service divided by 22) of the employer's contributions with interest, or(2) a deferred benefit determined in the same manner as for normal retirement. Payments begin at normal retirement.
Form of Annuity:	The base form, or normal form, is a life annuity with a guaranteed return of employee contributions (Option 2).
Optional Forms of Payment:	<p><i>Option 1:</i> The member specifies a dollar amount, in \$1,000 increments, that the member wishes to have paid to a designated beneficiary following the death of the member. The death benefit will be in the form of a single payment and cannot exceed the amount of a member's own accumulated contributions to IPERS, and it cannot lower the member's benefit as calculated under Option 2 by more than 50%.</p> <p><i>Option 3:</i> After the member's death, all benefits cease.</p> <p><i>Option 4:</i> The member receives a reduced monthly benefit so that a lifetime monthly benefit may be provided after the member's death to the person named by the member as the contingent annuitant. The member specifies what benefit the contingent annuitant will receive after the death of the member. The monthly benefit can be the same as the member's monthly benefit or three-fourths, one-half, or one-fourth of the amount. These choices may be restricted if the contingent annuitant is not the member's spouse and is more than ten years younger than the member.</p>





APPENDIX B – SUMMARY OF PLAN PROVISIONS

Option 5: If the member dies before ten full years (120 months of payments) have ended, the member's beneficiary will receive a monthly benefit for the remainder of the ten years. Members who have attained age 90 as of the first month of entitlement are not allowed to select this option.

Option 6: The member receives a reduced monthly benefit so that a lifetime monthly benefit may be provided after the member's death to the person named by the member as the contingent annuitant. In addition, the monthly amounts are also reduced to pay for a pop-up feature. The pop-up feature provides that if the contingent annuitant dies before the member, the member's benefit will pop back up to what it would have been under IPERS Option 2, and death benefits may be payable to the member's designated beneficiary if certain conditions are met.

Level Income Payment Option: A Level Income payment alternative is authorized for members of the Sheriffs and Deputies group and the Protection Occupation group. This alternative applies to all IPERS retirement options listed above except Option 6. The Level Income payment alternative permits a member to receive a relatively level income both before and after age 62 when benefits from IPERS and Social Security are combined. Higher IPERS benefits are paid prior to age 62. When the member reaches age 62, the member's IPERS benefit is permanently reduced. This amount is determined when the member retires and is not recomputed based on the actual Social Security benefit.

Actuarial Equivalent
Lump Sum Payment:

If a vested member is entitled to receive a benefit and it is less than \$50 per month under Option 2, the member shall receive a retirement benefit in an actuarial equivalent lump sum payment. The lump sum will include the member's and employer's accumulated contributions.

Post-retirement Benefit Increases:

Annual dividends are paid to those retired prior to July 1, 1990. Effective with the November 2000 dividend payment, the dividend is adjusted by the least of the following percentages: (1) the change in the CPI, (2) percentage certified to by the actuary as affordable by the System, and (3) 3%.





APPENDIX B – SUMMARY OF PLAN PROVISIONS

In lieu of a Favorable Experience Dividend (described below), Sheriffs and Deputy Sheriffs who terminate employment on or after July 1, 2024 after reaching age 50 with at least 22 years of combined special service are eligible for an automatic, annual 1.5% compound cost-of-living adjustment.

Favorable Experience Dividend (FED): For members who retired after June 30, 1990, a favorable experience dividend (FED) reserve account has been established under Iowa Code §97B.49F(2). Sheriffs and Deputy Sheriffs who retire on or after July 1, 2024 are not eligible for a FED payment. The main purpose of this account is to help offset the negative effects of postretirement inflation. All members and beneficiaries who receive a monthly allowance qualify for favorable experience dividend payments. Each November, IPERS determines if a FED payment should be paid the following January subject to the following conditions:

- The member must be retired one year.
- The FED rate cannot exceed 3%.
- The FED payment will be issued in a lump sum in January.
- The FED payment is not guaranteed.

The formula is as follows:

$$(\text{December's Monthly benefit}) \times (12 \text{ months}) \times (\text{Rate}) \times (\text{Full calendar years retired}) = \text{FED}$$

Source of Funds:

Sheriffs and Deputies: Determined by Contribution Rate Funding Policy. Employees contribute 50% of the Required Contribution Rate plus an additional fixed 0.125% and employers contribute the remaining Required Contribution Rate.

Protection Occupation: Determined by Contribution Rate Funding Policy. Employees contribute 40% of the Required Contribution Rate plus an additional fixed 0.125% and employers contribute the remaining Required Contribution Rate.





APPENDIX C

ACTUARIAL ASSUMPTIONS AND METHODS





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APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

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APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

Sound financing of any retirement system requires that benefits accruing to its members shall be paid for during their active working lifetime so that when a member (or his beneficiary) becomes entitled to a benefit, the monies necessary to provide such benefit shall be on hand. In this way, the cost of benefits for present active members will not become a liability to future members and taxpayers.

The principal purpose of an actuarial valuation is to calculate, on the basis of certain assumptions, the present value of benefits that are payable in the future from the system to present members (and their beneficiaries) and the present value of future contributions to be made by the members and their employers. Having calculated such present values, the level of annual contribution to the system required to fund (or pay for) the benefits, in accordance with the above stated principle of sound financing, may be determined.

VALUATION ASSUMPTIONS

Retirement System contribution requirements and actuarial present values are calculated by applying experience assumptions to the benefit provisions and census (member) information of the Retirement System, using the actuarial cost method.

The principal areas of risk which require experience assumptions about future activities of the Retirement System are:

- long-term rates of investment return to be generated by the assets of the system
- patterns of pay increases to members
- rates of mortality among members, retirants and beneficiaries
- rates of withdrawal of active members
- rates of disability among active members
- the age patterns of actual retirements

In making a valuation, the monetary effect of each assumption is calculated for as long as a present member survives -- a period of time which can be as long as a century.

Actual experience of the Retirement System will not coincide exactly with assumed experience. Each valuation provides a complete recalculation of assumed future experience and takes into account all past differences between assumed and actual experiences. The result is a continual series of adjustments to the computed contribution rate, or alternatively to the amortization period for the unfunded actuarial liability.

From time to time, one or more of the assumptions are modified to reflect experience trends (but not random or temporary year to year fluctuations). A complete review of the actuarial assumptions was completed in 2022, based on experience from July 1, 2017 through June 30, 2021. The Investment Board has adopted and approved the use of the actuarial assumptions presented in the 2022 Experience Study, with the exception of an explicit assumption to fund administrative expenses. The following is a summary of the assumptions and methods used in the valuation:





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

ECONOMIC ASSUMPTIONS:

Rate of Inflation (effective June 30, 2017)

2.60% per annum

Rate of Crediting Interest on Contribution Balances (effective June 30, 2017)

3.50% per annum, compounded annually

Rate of Investment Return (effective June 30, 2017)

7.00% per annum, compounded annually, net of expenses.

Wage Growth Assumption (effective June 30, 2017)

3.25% per annum based on 2.60% inflation assumption and 0.65% real wage inflation.

Payroll Increase Assumption (effective June 30, 2017)

3.25% per year

Cost of Living Adjustments Assumption (effective June 30, 2017)

2.60% for members who retired before July 1, 1990.

DEMOGRAPHIC ASSUMPTIONS:

Rates of Mortality

Pre-Retirement (effective June 30, 2022)

State

Male	PubG-2010 Employee Table, Generational using MP-2021, 2 Year age setback
Female	PubG-2010 Employee Table, Generational using MP-2021, 2 Year age setback

School

Male	PubG-2010 Employee Table, Generational using MP-2021, 4 Year age setback
Female	PubG-2010 Employee Table, Generational using MP-2021, 8 Year age setback

Other

Male	PubG-2010 Employee Table, Generational using MP-2021, 4 Year age setback
Female	PubG-2010 Employee Table, Generational using MP-2021, 8 Year age setback





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

Sheriffs/Deputies and Protection Occupation

Male	PubG-2010 Employee Table, Generational using MP-2021, 4 Year age setback
Female	PubG-2010 Employee Table, Generational using MP-2021, 2 Year age setback

5% of active deaths are assumed to be service related for non-regular members.

Post-Retirement (effective June 30, 2022)

State	PubG-2010 Healthy Annuitant, Generational using MP-2021
Male	2 Year age set forward, 8% increase below age 75, 5% decrease above age 75
Female	2 Year age set forward, 20% increase below age 75, 10% decrease above age 75
School	PubG-2010 Healthy Annuitant, Generational using MP-2021
Male	No age adjustment, 20% decrease in rates below age 75
Female	1 Year age setback, 10% increase below age 75, 6% increase above age 75
Other	PubG-2010 Healthy Annuitant, Generational using MP-2021
Male	2 Year age set forward, 3% decrease at all ages
Female	No age adjustment, 4% decrease at all ages
Sheriffs/Deputies and Protection Occupation	PubS-2010 Healthy Annuitant, Generational using MP-2021
Male	3 Year age set forward
Female	2 Year age set forward, 4% decrease at all ages
Beneficiaries:	Same as members
Disabled Members	
Regular	PubG-2010 Disabled Mortality, Generational using MP-2021
Male	7 Year age set forward
Female	5 Year age set forward
Sheriffs/Deputies and Protection Occupation	PubG-2010 Disabled Mortality, Generational using MP-2021
Male	3 Year age set forward
Female	3 Year age set forward





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

Retirement Rates (effective June 30, 2022)

Upon meeting the requirements for early retirement, the following rates apply to Regular Members:

<u>Age</u>	Assumed Retirement Rates – Early		
	<u>State</u>	<u>School</u>	<u>Other</u>
55	4.0%	5.0%	4.0%
56	4.0%	5.0%	4.0%
57	4.0%	5.0%	4.0%
58	4.0%	5.0%	4.0%
59	4.0%	7.0%	4.0%
60	5.0%	10.0%	5.0%
61	15.0%	10.0%	8.0%
62	15.0%	13.0%	11.0%
63	15.0%	13.0%	11.0%
64	15.0%	15.0%	11.0%

Upon reaching the requirements for normal retirement (unreduced benefits), the following rates apply:

<u>Age</u>	Assumed Retirement Rates – Select Unreduced		
	<u>State</u>	<u>School</u>	<u>Other</u>
55	25.0%	26.0%	19.0%
56	20.0%	26.0%	19.0%
57	20.0%	26.0%	19.0%
58	20.0%	26.0%	19.0%
59	20.0%	26.0%	19.0%
60	20.0%	26.0%	19.0%
61	20.0%	33.0%	19.0%
62	30.0%	35.0%	27.0%
63	35.0%	30.0%	20.0%
64	30.0%	30.0%	25.0%
65	30.0%	30.0%	40.0%





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

Assumed Retirement Rates – Ultimate Unreduced

<u>Age</u>	<u>State</u>	<u>School</u>	<u>Other</u>
56	15.0%	20.0%	12.0%
57	15.0%	20.0%	12.0%
58	15.0%	20.0%	12.0%
59	15.0%	21.0%	12.0%
60	15.0%	23.0%	15.0%
61	20.0%	28.0%	20.0%
62	35.0%	35.0%	27.0%
63	30.0%	30.0%	20.0%
64	30.0%	30.0%	25.0%
65	30.0%	45.0%	40.0%
66	30.0%	35.0%	30.0%
67	20.0%	25.0%	20.0%
68	20.0%	25.0%	20.0%
69	35.0%	40.0%	40.0%
70	100.0%	100.0%	100.0%

Assumed Retirement Rates

<u>Age</u>	<u>Sheriffs and Deputies</u>	<u>Protection Occupation</u>
50	17.0%	
51	15.0%	
52	15.0%	
53	15.0%	
54	15.0%	
55	15.0%	25.0%
56	15.0%	10.0%
57	15.0%	10.0%
58	15.0%	10.0%
59	15.0%	10.0%
60	15.0%	10.0%
61	15.0%	15.0%
62	30.0%	30.0%
63	30.0%	25.0%
64	30.0%	25.0%
65	100.0%	100.0%

Terminated vested members are assumed to retire at age 62 (55 for Sheriffs/Deputies and Protection Occupation groups).

For Regular membership, retired reemployed members are assumed to retire at a rate of 25% per year until age 80 when all are assumed to retire.

All retirees are assumed to elect a modified cash refund annuity (Option 2).





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

Rates of Disablement (effective June 30, 2022)

<u>Age</u>	Assumed Rates					
	Males			Females		
	<u>State</u>	<u>School</u>	<u>Other</u>	<u>State</u>	<u>School</u>	<u>Other</u>
27	0.017%	0.018%	0.016%	0.016%	0.018%	0.016%
32	0.017%	0.018%	0.016%	0.016%	0.018%	0.016%
37	0.026%	0.031%	0.024%	0.024%	0.027%	0.024%
42	0.043%	0.050%	0.040%	0.032%	0.036%	0.032%
47	0.085%	0.088%	0.088%	0.056%	0.063%	0.058%
52	0.153%	0.128%	0.208%	0.144%	0.117%	0.126%
57	0.221%	0.207%	0.400%	0.248%	0.171%	0.224%
62	0.289%	0.286%	0.576%	0.400%	0.234%	0.320%

Assumed Rates Sheriffs/Deputies Protection Occupation*

<u>Age</u>	<u>Rate</u>
27	0.130%
32	0.130%
37	0.130%
42	0.150%
47	0.200%
52	0.240%
57	0.320%
62	0.430%

* 66.67% of disabilities are assumed to be in-service disabilities.

Rates of Termination of Employment (effective June 30, 2022)

Regular Membership

<u>Years of Service</u>	Male			Female		
	<u>State</u>	<u>School</u>	<u>Other</u>	<u>State</u>	<u>School</u>	<u>Other</u>
1	14.00%	14.20%	17.50%	14.20%	14.20%	19.99%
5	5.25%	6.60%	7.00%	6.60%	6.60%	8.35%
10	2.40%	2.70%	3.75%	3.25%	2.70%	4.93%
15	1.60%	1.70%	2.55%	2.00%	1.70%	3.36%
20	1.10%	1.20%	1.90%	1.30%	1.20%	2.66%
25	1.00%	1.00%	1.40%	1.00%	1.00%	1.98%
30	1.00%	1.00%	1.00%	1.00%	1.00%	1.30%





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

Sheriffs/Deputies and Protection Occupation

<u>Years of Service</u>	<u>Sheriffs/Deputies</u>	<u>Protection Occupation</u>
1	6.00%	11.50%
5	2.50%	6.50%
10	1.15%	3.75%
15	1.00%	2.35%
20	1.00%	1.60%
25	1.00%	1.25%
30	1.00%	1.25%

Probability of Electing a Deferred Vested Benefit (effective June 30, 2018)

<u>Years of Service</u>	<u>Regular Membership</u>					
	<u>Male</u>			<u>Female</u>		
	<u>State</u>	<u>School</u>	<u>Other</u>	<u>State</u>	<u>School</u>	<u>Other</u>
5	62.0%	74.0%	62.0%	56.0%	80.0%	70.0%
10	71.0%	79.0%	71.0%	62.0%	80.0%	73.0%
15	76.0%	84.0%	76.0%	72.0%	85.0%	80.0%
20	81.0%	89.0%	81.0%	82.0%	90.0%	85.0%
25	86.0%	94.0%	86.0%	92.0%	95.0%	90.0%
30	90.0%	95.0%	90.0%	100.0%	100.0%	90.0%

Sheriffs/Deputies and Protection Occupation

<u>Years of Service</u>	<u>Rate</u>
5	53.0%
10	65.0%
15	85.0%
20	95.0%
25	100.0%
30	100.0%





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

Rates of Salary Increase* (effective June 30, 2018)

Years of Service	Annual Increase			
	State	School	Other	Sheriffs/Deputies and Protection Occupation
1	14.25%	16.25%	14.25%	16.25%
5	7.75%	5.75%	5.35%	5.75%
10	5.50%	4.55%	4.55%	4.55%
15	4.45%	3.75%	4.05%	4.05%
20	3.85%	3.40%	3.75%	3.75%
25	3.60%	3.25%	3.65%	3.75%
30	3.35%	3.25%	3.65%	3.25%
35+	3.25%	3.25%	3.25%	3.25%

* Includes 3.25% wage growth

Marriage Assumption

100% of members are assumed to be married, with males 3 years older than females.





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

ACTUARIAL COST METHOD (adopted 1996)

The actuarial cost method is a procedure for allocating the actuarial present value of pension plan benefits and expenses to time periods. The method used for the valuation is known as the entry age normal actuarial cost method. Under this method, a total contribution rate is determined which consists of two parts: (i) the normal cost rate and (ii) the unfunded actuarial liability (UAL) rate. The entry age normal cost method has the following characteristics:

- (i) The annual normal costs for each individual active member are sufficient to accumulate the value of the member's pension at time of retirement.
- (ii) Each annual normal cost is a constant percentage of the member's year by year projected compensation rates.

The entry age normal actuarial cost method allocates the actuarial present value of each member's projected benefits on a level basis over the member's compensation rates between the entry age of the member and the assumed exit ages.

ACTUARIAL AMORTIZATION METHOD (adopted 2013)

The portion of the actuarial present value of benefits allocated to the valuation year is called the normal cost. The portion of the actuarial present value of benefits not provided for by the actuarial present value of future normal costs is called the actuarial liability. Deducting the actuarial value of assets from the actuarial liability determines the unfunded actuarial liability (UAL). The one-year lag between the valuation date and the date the contribution rate is effective is reflected in calculating the corresponding amortization payment. The UAL is amortized according to the Actuarial Amortization Method adopted by the Investment Board and summarized below:

1. Amortization payments will be calculated as a level percentage of payroll.
2. For the actuarial valuation prepared as of June 30, 2013, the amortization period of the UAL shall be 30-year open for all membership groups.
3. For the actuarial valuation prepared as of June 30, 2014:
4. The UAL for each membership group shall be amortized over a 30-year closed period.
5. This will be designated as the initial UAL base for subsequent valuations and it will be amortized over the remaining years of the 30-year closed period set on June 30, 2014.
6. For each valuation subsequent to June 30, 2014, annual net experience gains/losses for each membership group will be amortized over a new, closed 20-year period.
7. Subsequent plan amendments or changes in actuarial assumptions or methods that create a change in the UAL will be amortized over a demographically appropriate period selected by the Investment Board at the time that the change is incurred.
8. The dollar amount of the UAL payment for purposes of computing the UAL component of the actuarial and required contribution rate will be the sum of the amortization payments for each amortization schedule divided by the total projected payroll. Unless the plan has been 110 percent funded for the current and prior two years, a negative amortization payment shall be ignored.





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

9. If the valuation shows that the group has surplus, the prior amortization bases will be eliminated and one base equal to the amount of surplus shall be established. The amortization period of a surplus shall be a 30-year open period for all groups.

Please note that the use of closed amortization periods, coupled with employers contributing the full actuarial required contribution each year, will result in the System being fully funded at the end of the amortization period, if all actuarial assumptions are met. Based on the current valuation, the full funded date is the 2046 valuation. In our opinion, the amortization policy meets the requirements of Actuarial Standard of Practice Number 4.

Due to the remaining amortization period of the legacy UAAL, the expected contributions in the next year are greater than the normal cost plus interest on the UAAL. In our professional judgement, the funding policy adopted by the Investment Board produces a reasonable actuarial required contribution as defined in Actuarial Standard of Practice Number 4. This policy will fully amortize the individual bases as well as the total unfunded actuarial liability within a reasonable timeframe and/or reduce the amount of the UAL by a reasonable amount within a sufficiently short period. Contributions are developed with the intent of being level as a percentage of covered payroll, assuming the number of active members remains stable. 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.

ACTUARIAL VALUE OF ASSETS SMOOTHING METHOD (adopted 2007)

The market value of assets, representing a fair value of System assets, may not necessarily 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 volatility in the market value while still indirectly recognizing market value. The specific technique follows:

- Step 1:** Determine the expected value of plan assets at the current valuation date using the actuarial assumption for investment return applied to the prior actuarial value and the actual receipts and disbursements of the fund for the previous 12 months.
- Step 2:** Subtract the expected value determined in Step 1 from the total market value of the Fund at the current valuation date.
- Step 3:** Multiply the difference between market and expected values determined in Step 2 by 25%.
- Step 4:** Add the expected value of Step 1 and the product of Step 3 to determine the actuarial value of assets.
- Step 5:** Verify the preliminary actuarial value of assets in Step 4 is not more than 120% of the market value of assets nor less than 80% of the market value. If it is, adjust the actuarial value of assets so it falls within the 80% - 120% corridor.





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

TECHNICAL VALUATION PROCEDURES

Data Procedures

In-pay members:

If a birth date is not available, the member is assumed to be 80. If a retirement date is also not available, the member is assumed to have retired at 65.

If a beneficiary birth date is needed but not supplied, husbands are assumed to be 3 years older than wives.

Not in-pay members:

If a birth date is not available, the member is assumed to be the average age of the members with the same status.

If gender is not provided, regular members are assumed to be female and Sheriffs/Deputies and Protection Occupation members are assumed to be male.

Salaries for first year members are annualized based on the number of quarters with wages.

Membership Transfers

IPERS provides a code in the valuation data to indicate that a member is in a membership group (Regular, Sheriffs and Deputies and Protection Occupation) different from that on the prior valuation date. The actuarial liability for these members is calculated under the assumptions and provisions of the prior membership group. A preliminary funded ratio (before asset transfer) is determined for the three membership groups. Assets are then transferred from the prior to the current membership group based on the funded ratio of the prior group times the actuarial liability of the member in the prior group. Then, the members are revalued in the current membership group for purposes of valuation calculations.

Other Valuation Procedures

No actuarial liability in excess of the unclaimed member contribution balance is held for nonvested, inactive members. Inactive vested members who have died are treated in the same manner.

The wages used in the projection of benefits and liabilities are considered earnings for the current year ending June 30, increased by the salary scale.

The calculations for the actuarial contribution rate are determined as of mid-year. This is a reasonable estimate since contributions are made throughout the year.

The projected IRC Section 415 limit for active participants was not valued. The impact was assumed to be *de minimus*.

The compensation limitation under IRC Section 401(a)(17) is considered in this valuation.





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

No future additions to, or payments from, the Favorable Experience Dividend (FED) Reserve Account or the Supplemental Accounts for Active Members (SAAM) are reflected in the valuation. The FED and SAAM were first developed in a funding framework in which the Regular membership contribution rate was a fixed contribution rate, set in statute, which had been constant for many years. Legislation has subsequently made the contribution rate variable and the IPERS Board has developed a funding policy to guide them in setting the statutory contribution rate. There are some interactions between a variable contribution rate and the rules for the FED and SAAM transfers that we believe may not reflect the original intent of the FED and SAAM. Given the intent, we anticipate that the issues described here may encourage a review of the statutes and policies related to the FED and SAAM. Therefore, the potential liability from the FED and SAAM are not reflected in this valuation.





APPENDIX C – ACTUARIAL ASSUMPTIONS AND METHODS

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APPENDIX D DEFINITION OF TERMS





APPENDIX D – DEFINITION OF TERMS

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APPENDIX D – DEFINITION OF TERMS

Accrued Service	Service credited under the system that was rendered before the date of the actuarial valuation.
Actuarial Assumptions	Estimates of future experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and salary increases. Decrement assumptions (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term average rate of inflation.
Actuarial Cost Method	A mathematical budgeting procedure for allocating the dollar amount of the actuarial present value of retirement system benefits between future normal cost and actuarial liability. Sometimes referred to as the “actuarial funding method.”
Actuarial Equivalent	A single amount or series of amounts of equal value to another single amount or series of amounts computed on the basis of a given set of actuarial assumptions.
Actuarial Liability	The difference between the actuarial present value of system benefits and the actuarial value of future normal costs. Also referred to as “accrued liability” or “actuarial accrued liability.”
Actuarial Present Value	The amount of funds currently required to provide a payment or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest and by probabilities of payment.
Amortization	Paying off an interest-discounted amount with periodic payments of interest and principal, as opposed to paying off with lump sum payment.
Experience Gain (Loss)	The difference between actual experience and actuarial assumptions anticipated experience during the period between two actuarial valuation dates.
Normal Cost	The actuarial present value of retirement system benefits allocated to the current year by the actuarial cost method.





APPENDIX D – DEFINITION OF TERMS

Unfunded Actuarial Liability

The difference between actuarial liability and the actuarial value of assets. Sometimes referred to as “unfunded accrued liability” or “unfunded liability”.

Most retirement systems have unfunded actuarial liability. They arise anytime new benefits are added and anytime an actuarial loss is realized.





APPENDIX E CONTRIBUTION RATE FUNDING POLICY





APPENDIX E – CONTRIBUTION RATE FUNDING POLICY

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APPENDIX E – CONTRIBUTION RATE FUNDING POLICY

Background:

IPERS is charged with setting a “Required Contribution Rate” for each membership category within IPERS that will discharge its liabilities. Iowa Code §97B.11(3)(d) provides the basic framework for implementing this charge by stating:

The Required Contribution Rate that is set by the system for a membership category shall be the contribution rate the system actuarially determines, based upon the most recent actuarial valuation of the system and using the actuarial methods, assumptions, and funding policy approved by the investment board, is the rate required by the system to discharge its liabilities as a percentage of the covered wages of members in that membership category. However, the Required Contribution Rate set by the system for members in regular service for a fiscal year shall not vary by more than one percentage point from the Required Contribution Rate for the prior fiscal year.

Goal:

To establish policy and procedures in setting contribution rates that combined with investment income will fund the benefits specified in Chapter 97B of the Iowa Code.

To move towards fully funding the benefits (100 percent or greater funded ratio) in as expeditious manner as is reasonable within the guidelines acknowledged herein.

Procedure:

The Investment Board shall retain a consulting actuary to conduct an annual actuarial valuation of assets and liabilities. The consulting actuary shall use the entry age normal cost method and all other actuarial assumptions and methods approved by the Investment Board.

In the annual valuation process, the consulting actuary shall calculate an Actuarial Contribution Rate and a Required Contribution Rate pursuant to this policy. Each shall be calculated as a level percent of pay.

There is a one-year lag between the completion of an annual actuarial valuation report and the fiscal year to which the contribution rates calculated therein are applied. Therefore, the Actuarial Contribution Rate and the Required Contribution Rate declared in the annual valuation process are applicable to the fiscal year immediately following the completion of the valuation report (for example the rates declared in the report presented to the Investment Board in December 2013 are applicable to the rates for the fiscal year beginning July 1, 2014).

Actuarial Contribution Rate (ACR):

1. ACR is the combined employer and employee contribution rate that is the minimum rate necessary to fund the benefits using the actuarial assumptions and methods approved by the Investment Board.
2. A separate ACR shall be determined for each membership group within IPERS according to this policy.





APPENDIX E – CONTRIBUTION RATE FUNDING POLICY

3. The ACR shall consist of:

- a. Normal cost and an amortization payment (not less than zero) of any unfunded actuarial liability.
- b. Normal cost may only be offset by a negative amortization payment after a membership group has attained a funded ratio of 110 percent or greater for 3 consecutive years.

Required Contribution Rate:

1. The Required Contribution Rate is the combined employer and employee rate payable pursuant to this policy and Iowa Code §97B.11(3)(d).
2. The Required Contribution Rate shall be determined by comparing the ACR determined in the annual valuation process to the Required Contribution Rate of the previous year.
 - a. If the ACR is less than the previous Required Contribution Rate by fewer than 50 basis points, then the Required Contribution Rate shall remain unchanged from the previous year.
 - b. If the ACR is less than the previous Required Contribution Rate by 50 basis points or more, then the Required Contribution Rate shall be lowered by 50 basis points provided the funded ratio of the membership group is 95 percent or higher.
 - c. If the ACR is greater than the Required Contribution Rate of the previous year, then the Required Contribution Rate shall be:
 - i. Increased to be equal to ACR for Sheriffs and Deputies.
 - ii. Increased to be equal to ACR for Protection Occupation Members.
 - iii. Increased to be equal to ACR for Regular Members, or one percentage point greater than the prior year's Required Contribution Rate, whichever is smaller.

Favorable Experience Dividend (“FED”) and Supplemental Account for Active Members (“SAAM”) transfers:

For the purposes and only for the purposes of calculating potential transfers to the favorable experience dividend reserve account and to each member's supplemental account the term “fully funded” as specified in the relevant Iowa Code and Administrative Rules¹ shall mean:

The funding percentage, which shall not be less than 100 percent,² determined by the System's actuary at which calculated transfers to the favorable experience dividend reserve account and to the member's supplemental accounts will not result in a material probability that the System will fall below 100 percent funded.³

¹ §97B.49F(2)(c)(5); §97B.49H (3); IAC 495—15.2(1).

² §97B.1A(11A).

³ As contemplated in §97B.4(4)(d) and §97B.65(2) the terms “fully funded” and “fully fund” shall reference a 100 percent funding ratio.





APPENDIX E – CONTRIBUTION RATE FUNDING POLICY

Policy Guidelines:

In adopting actuarial assumptions and methods to be used in setting contribution rates, the Investment Board shall strive to provide a balance among the following:

1. Stability in contribution rates (such as use of smoothing and amortization schedules that do not produce dramatic swings in the required contributions from year to year).
2. Disciplined funding approach (such as requiring full payment of normal cost and an amortization payment towards the unfunded actuarial liability and deferring decreases in contribution rates until strong funded ratios are attained).
3. Interperiod equity (such as shortening the amortization schedule when reasonable and amortization of retroactive benefit enhancements over a reasonable time period such as the average working lifetime for active members and the average life expectancy of retired members).
4. Support an affordable, sustainable plan (in consultation with the Benefits Advisory Committee review affordability of required contribution rates and/or the benefit provisions).
5. At a minimum, this policy will be reviewed in conjunction with the quadrennial experience study.





APPENDIX E – CONTRIBUTION RATE FUNDING POLICY

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ADDENDUM

IOWA PUBLIC EMPLOYEES' RETIREMENT SYSTEM CERTIFICATION

This Addendum is being prepared solely for the purpose of providing the information required under Chapter 97 D.5 of the Iowa code. Calculations are based on the following prescribed methods:

Actuarial cost method: Entry Age Normal
Amortization method: Level percent of payroll
Amortization period: 30 years, open period

All other assumptions, methodologies, and System provisions used are consistent with those used in the June 30, 2025 valuation for the Iowa Public Employees' Retirement System.

The results shown in this Addendum may not be consistent with those in the June 30, 2025 valuation. The June 30, 2025 valuation results were determined in accordance with generally accepted actuarial principles and practices that are consistent with the Actuarial Standards of Practice promulgated by the Actuarial Standards Board and the applicable Guides to Professional Conduct, amplifying opinion and supporting recommendations of the American Academy of Actuaries. The results shown in this Addendum are not necessarily based on the methodologies adopted by the System.

We are available to answer any questions on the material contained in this report, or to provide explanations or further details as may be appropriate.

The undersigned credentialed actuaries meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained in this report.

Patrice A. Beckham, FSA, EA, FCA, MAAA

November 4, 2025

Date

Brent A. Banister, PhD, FSA, EA, FCA, MAAA

November 4, 2025

Date

Bryan K. Hoge, FSA, EA, FCA, MAAA

November 4, 2025

Date





ADDENDUM

IOWA PUBLIC EMPLOYEES' RETIREMENT SYSTEM SUMMARY OF VALUATION RESULTS UNDER PRESCRIBED METHODOLOGY PER CHAPTER 97 D.5

This addendum report has been prepared to present the results of a valuation of the Iowa Public Employees' Retirement System as of June 30, 2025, based on the prescribed methodology under Chapter D.5.

The unfunded actuarial liability has been amortized as a level percent of payroll over 30 years. The payroll growth assumption used was 3.25%.

A summary of results from the current and the prior valuation follows.

	Regular Membership Actuarial Valuation as of	
	<u>June 30, 2025</u>	<u>June 30, 2024</u>
Summary of Costs		
Normal cost	10.63%	10.63%
UAL amortization	<u>1.85%</u>	<u>2.26%</u>
Total	12.48%	12.89%
Less Employee Contribution Rate	<u>(6.29%)</u>	<u>(6.29%)</u>
Employer Required Contribution Rate	6.19%	6.60%
Funded Status		
Actuarial liability	\$45,526,769,071	\$43,968,927,475
Actuarial value of assets	41,683,371,605	39,598,880,967
Unfunded actuarial liability	\$3,843,397,466	\$4,370,046,508
Funded Ratio	91.6%	90.1%
Asset Values		
Market value of assets (MVA)	\$43,084,817,851	\$40,276,123,118
Actuarial Value of Assets (AVA)	41,683,371,605	39,598,880,967
MVA/AVA	103%	102%





Sheriffs and Deputies Actuarial Valuation as of

	<u>June 30, 2025</u>	<u>June 30, 2024</u>
Summary of Costs		
Normal cost	20.10%	20.06%
UAL amortization	<u>3.24%</u>	<u>3.20%</u>
Total	23.34%	23.26%
Less Employee Contribution Rate	<u>(12.335%)</u>	<u>(12.090%)</u>
Employer Required Contribution Rate	11.005%	11.170%
Funded Status		
Actuarial liability	\$1,150,461,149	\$1,072,081,657
Actuarial value of assets	1,046,260,643	984,272,434
Unfunded actuarial liability	\$104,200,506	\$87,809,223
Funded Ratio	90.9%	91.8%
Asset Values		
Market value of assets (MVA)	\$1,075,495,083	\$995,921,332
Actuarial Value of Assets (AVA)	1,046,260,643	984,272,434
MVA/AVA	103%	101%





Protection Occupation Group*
Actuarial Valuation as of

	<u>June 30, 2025</u>	<u>June 30, 2024</u>
Summary of Costs		
Normal cost	15.42%	15.43%
UAL amortization	<u>(1.12%)</u>	<u>(0.92%)</u>
Total	14.30%	14.51%
Less Employee Contribution Rate	<u>(6.335%)</u>	<u>(6.210%)</u>
Employer Required Contribution Rate	7.965%	8.300%
Funded Status		
Actuarial liability	\$2,386,000,355	\$2,261,610,525
Actuarial value of assets	2,492,691,754	2,344,103,661
Unfunded actuarial liability	(\$106,691,399)	(\$82,493,136)
Funded Ratio	104.5%	103.6%
Asset Values		
Market value of assets (MVA)	\$2,580,239,241	\$2,389,078,850
Actuarial Value of Assets (AVA)	2,492,691,754	2,344,103,661
MVA/AVA	104%	102%

* Includes all public safety members other than Sheriffs and Deputies.

