

Delaware State Employees' Pension Plan

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

Produced by Cheiron

December 2025

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December 12, 2025

Board of Pension Trustees
State of Delaware
McArdle Building
860 Silver Lake Boulevard, Suite 1
Dover, Delaware 19904

Dear Members of the Board:

At your request, we have conducted the annual actuarial valuation of the Delaware State Employees' Pension Plan (Plan) as of June 30, 2025. The results of this valuation are contained in this report. The purpose of the valuation is discussed in the Foreword.

This report contains information on Plan assets and liabilities and analyses combining asset and liability performance and projections. It also discloses State contribution levels and certain required disclosures under the Governmental Accounting Standards Board (GASB) Statement No. 67.

In completing the valuation and preparing our report, we relied on information, some oral and some written, supplied by the Office of Pensions staff. This information includes, but is not limited to, the Plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23.

The contribution results of this report are only applicable to the State contribution for Fiscal Year (FY) 2027 and rely on future Plan experience conforming to the underlying assumptions. Future experience may differ significantly from the current experience due to such factors as the following: Plan experience differing from that anticipated by the assumptions, changes in assumptions, and changes in Plan provisions or applicable law.

This report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices that are consistent with our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations, including the use of assumptions and methods for funding purposes that comply with the Actuarial Standards of Practice. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinions contained in this report. This report does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

Board of Pension Trustees

December 12, 2025

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This report was prepared for the Delaware State Employees' Pension Plan for the purposes described herein and for the use by the Plan's auditor in completing an audit related to the matters herein. Other users of this valuation report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to any other user.

Sincerely,

Cheiron



Fiona E. Liston, FSA, EA, MAAA
Principal Consulting Actuary



Elizabeth Wiley, FSA, EA, MAAA, FCA
Consulting Actuary

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

FOREWORD

Cheiron has performed the annual actuarial valuation of the Delaware State Employees' Pension Plan (Plan) as of June 30, 2025. The purpose of this report is to:

- 1) Measure and disclose**, as of the valuation date, the financial condition of the Plan,
- 2) Indicate trends** in the financial condition of the Plan,
- 3) Determine the contribution rate** to be paid by the State for Fiscal Year (FY) 2027, and
- 4) Provide** certain accounting statement information.

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

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

Section II reviews the primary risks facing the Plan and quantifies these using various risk and maturity measures.

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

Section IV shows similar information on liabilities, measured for actuarial, accounting, and governmental reporting purposes.

Section V presents the FY 2027 Actuarially Determined Contribution.

Section VI includes certain required disclosures under Governmental Accounting Standards Board (GASB) Statement No. 67 and items recommended by the Government Finance Officers Association (GFOA).

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

The actuarial assumptions reflect our understanding of the likely future experience of the Plan, and the assumptions, individually and as a whole, represent our best estimate for the future experience of the Plan. The results of this report rely on future Plan experience conforming to the underlying assumptions and methods outlined in this report. To the extent that the actual Plan experience deviates from the underlying assumptions and methods, or there are any changes in Plan provisions, the true cost of the Plan will vary from our results.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION I – BOARD SUMMARY

General Comments

The Actuarially Determined Contribution (ADC) rate is calculated to decrease from 12.38% for FY 2026 to 12.29% for FY 2027.

During the year ended June 30, 2025, the Plan's assets earned 10.99% on a market value basis. However, due to the Plan's asset smoothing method, which recognizes portions of investment gains and losses over time, the return on an actuarial value basis was 8.06%. This return was higher than the assumed investment rate of return of 7.00% for the prior year, resulting in an actuarial gain on investments of \$121.9 million.

The Plan experienced an actuarial loss on Plan liabilities resulting from salary increases different from those assumed and members retiring, terminating, becoming disabled, and dying at rates different from the actuarial assumptions. This liability loss increased the actuarial liability by \$202.2 million. The source of this loss was primarily pay in excess of the assumed salary increases.

This valuation report also contains certain information to be reported in the June 30, 2025 Annual Comprehensive Financial Report (ACFR) of the Delaware Public Employees' Retirement System (Delaware PERS) under GASB Statement No. 67, as well as additional disclosure information recommended by the Government Finance Officers Association (GFOA). The GASB disclosures are based on the use of update procedures to roll forward the 2024 actuarial valuation liability results. The calculation of net pension liability in Section VI is shown as disclosed for the plan year ended June 30, 2025, based on the 2024 funding actuarial valuation liability results, updated by the roll forward. We also present a projection of the June 30, 2026 disclosure in Section VI, assuming all actuarial assumptions are exactly met over the coming year, which is based on the 2025 funding actuarial valuation liability results.

As of the June 30, 2025 funding actuarial valuation, the Plan's unfunded actuarial liability (UAL) was \$1.687 billion. This is a decrease from the \$1.721 billion UAL in the funding valuation for the prior year.

Effective with the June 30, 2018 valuation, the UAL as of June 30, 2018 is being amortized over a closed 20-year period as a level percentage of payroll (13 years remaining as of June 30, 2025). Layers of UAL that have arisen since then are being amortized over their own individual closed 15-year periods as a level percentage of payroll.

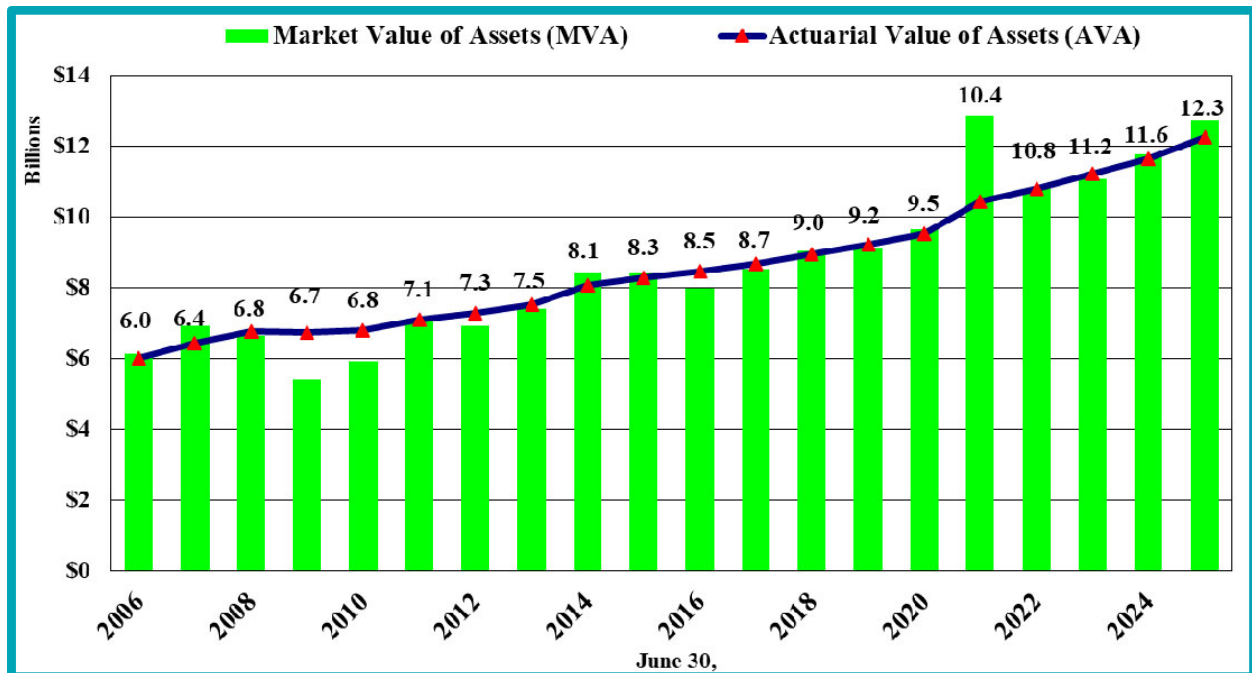
DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

SECTION I – BOARD SUMMARY

Trends

Asset Returns

The graph below shows measurements of the Plan's assets over the last 20 years based on market and actuarial values. The green bars represent the market value measurements, while the blue line shows the smoothed actuarial value measurements. The black labels above the blue line are the Actuarial Value of Asset measurements as of the valuation date for each year in billions of dollars.



The Market Value of Assets (MVA) returned 11.0% over the last year. The determination of the Plan's Actuarial Value of Assets (AVA) for the current year reflects a portion of this return exceeding the 7.0% assumed for the prior year, and continued recognition of prior years' gains and losses, with the combined effect of returning 8.1% over FY 2025.

Over the period July 1, 2006 to June 30, 2025, the Plan's assets measured using the Actuarial Value of Asset measurements returned a compound 7.3%, compared to the current valuation assumption of 7.0%. The Plan returned 7.5% over the same period on a Market Value of Assets basis.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

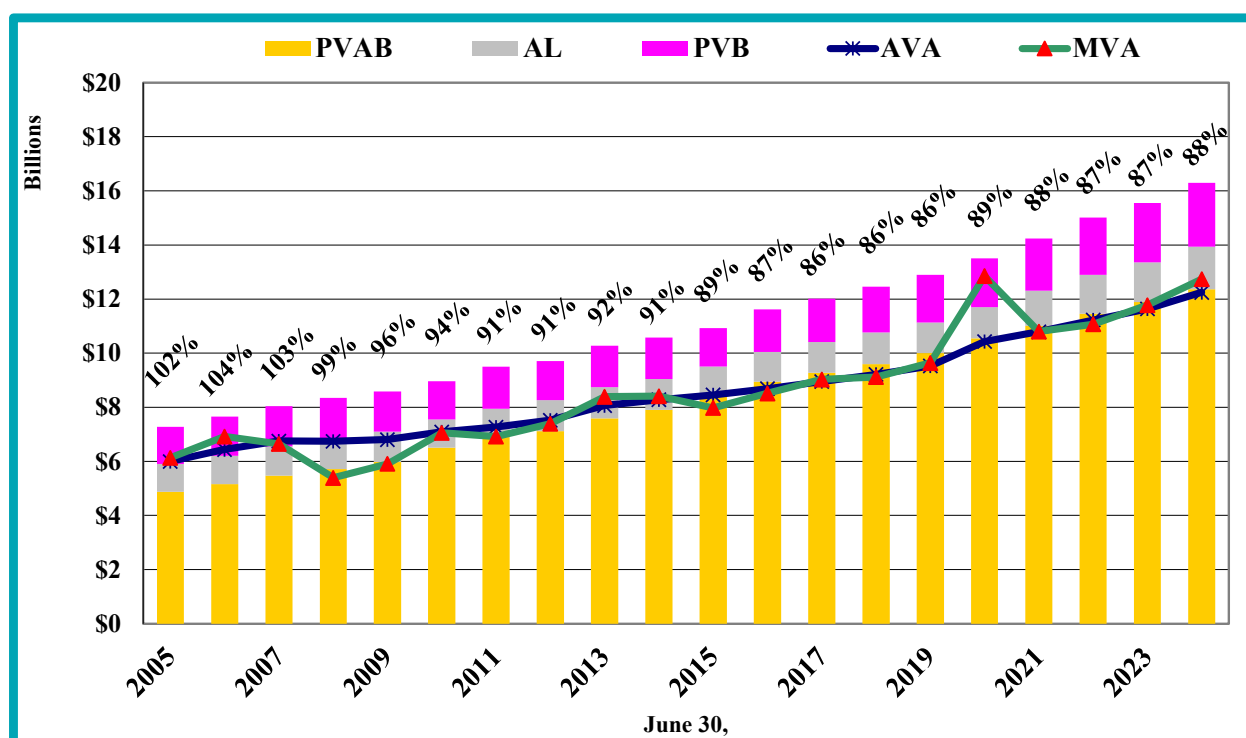
SECTION I – BOARD SUMMARY

Assets and Liabilities

The three colored bars below represent the three different measures of liability discussed in this report. The first measure is given by the yellow bars, the present value of accrued benefits (PVAB). The PVAB values represent the value of all benefits earned by current members through the valuation date. These values do not reflect any future additional service or salary increases for current members beyond the valuation dates.

The second liability measure shown is the one currently used for the Plan's funding target, the actuarial liability (AL). The top of the gray bars represent these target amounts. This measurement is also the basis of the liability measure used in GASB 67. The funded ratios reported by the Plan are the percentages shown above the bars and are developed by comparing the Actuarial Value of Assets to these target liability measurements at each valuation date.

The amount represented by the top of the pink bars, the present value of future benefits (PVB), is the amount needed as of each valuation date to provide all benefits for the current members and their beneficiaries, including reflection of assumed future service and pay increases. If the Plan had assets equal to the PVB as of a certain date, no additional contributions would, in theory, be needed to pay the benefits of the current members if all assumptions were exactly met from that point forward.

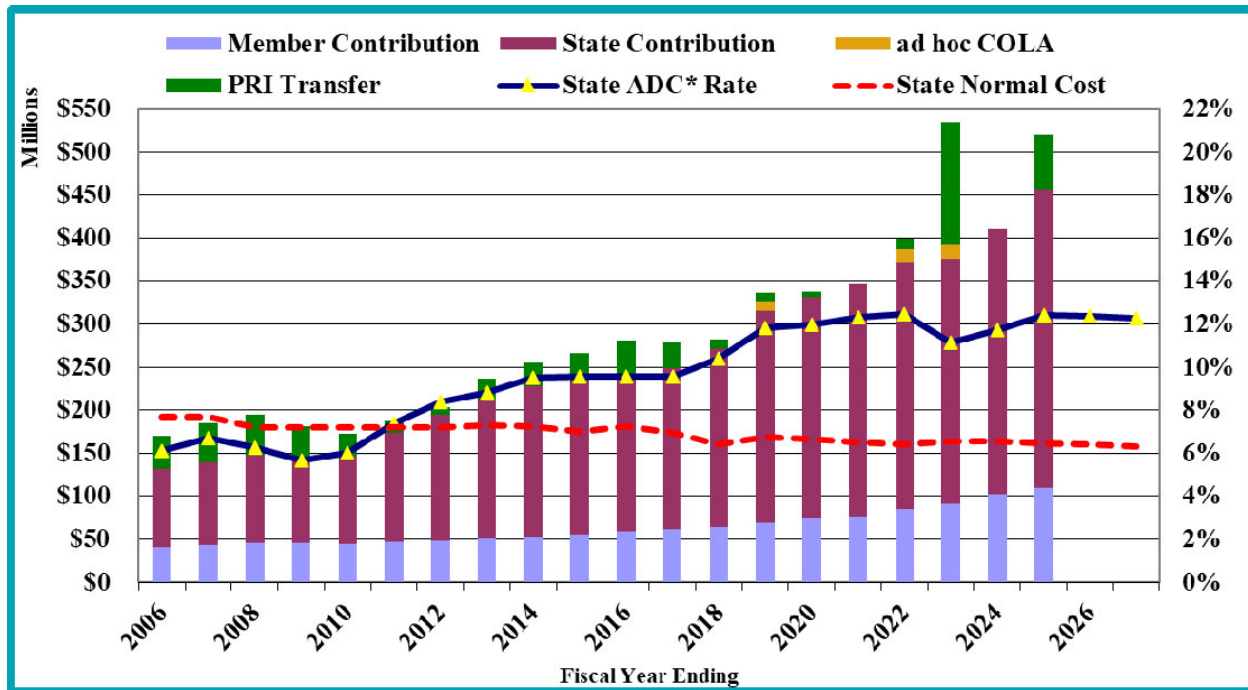


The funded ratios shown are the AVA as a percentage of AL, and the values would be different if presented as MVA as a percentage of AL.

DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

SECTION I – BOARD SUMMARY

Contribution Rates



The stacked bars in the graph above show the actual dollar amounts of the contributions made by the State, the Post-Retirement Increase Fund (PRI), and the members for each fiscal year. They are read using the left-hand scale. The blue line shows the State Actuarially Determined Contribution (ADC) rate for each fiscal year as a percentage of payroll and is read using the right-hand scale. The red line shows the level of the State normal cost rate, which measures the value of benefits being accrued each year, offset by the portion paid through member contributions, also read with the right-hand scale.

The member contribution rate is set by State law, based on the plan in which the member participates. The State contribution rate is set by the actuarial process, while the PRI transfer amounts depend on the increases granted by the State Legislature. Please note that there is a lag between the calculation of the State contribution rates shown and when they are payable. For example, the value shown for FY 2025 is the rate prepared by the June 30, 2023 valuation and implemented for the period July 1, 2024 to June 30, 2025. As such, two more years of rates are shown beyond the years of actual contributions.

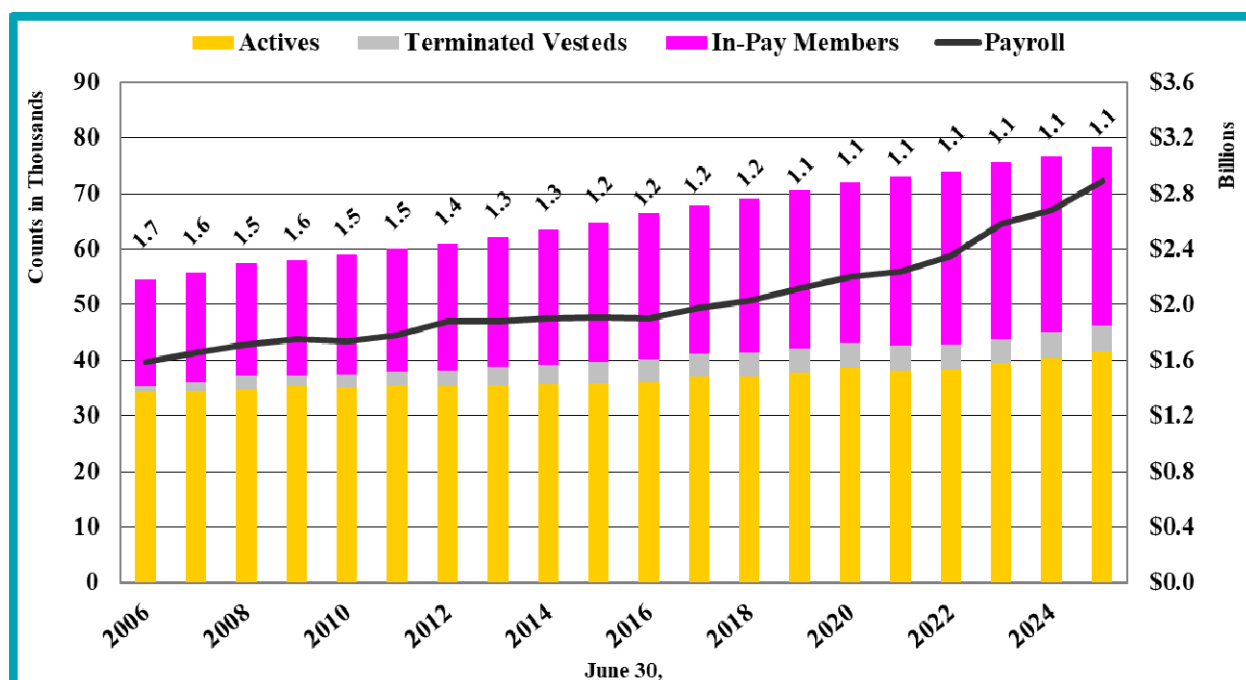
DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

SECTION I – BOARD SUMMARY

Participant Trends

The bars below show the number of members as of each valuation date, divided between active members, terminated vested members, and retirees/beneficiaries. These bars are read using the left-hand scale. As with most maturing plans, this plan continues to show growth in the number of inactive members. The numbers above each bar represent the ratio of active members to inactive members (retirees, beneficiaries, and terminated vested members) at each valuation date. This active-to-inactive ratio has decreased from 1.7 actives for each inactive in 2006 to 1.1 actives for each inactive in 2025.

The black line shows the Plan's covered payroll as of each valuation date and is read using the right-hand scale.

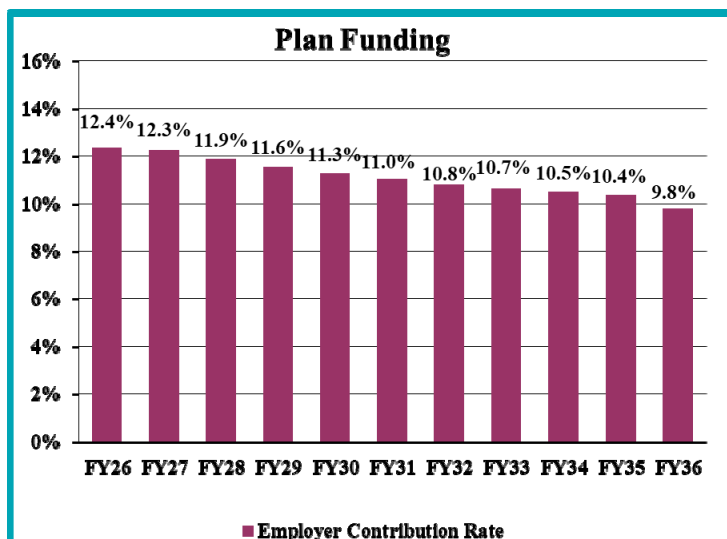


DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

SECTION I – BOARD SUMMARY

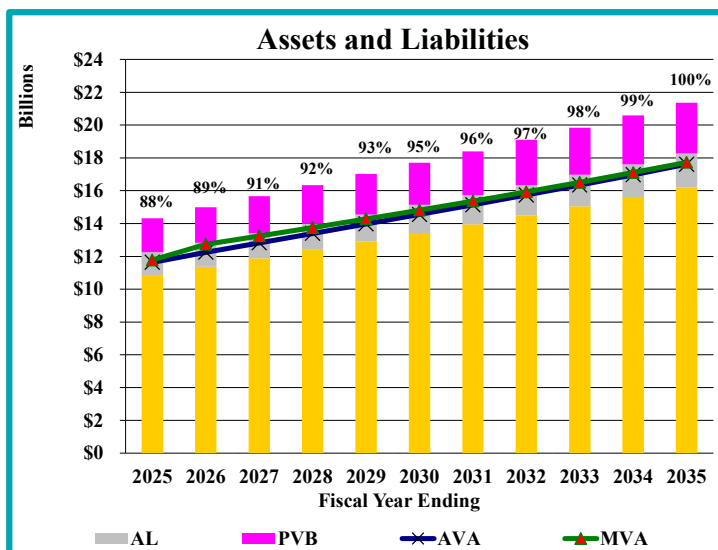
Future Outlook

Baseline Projections



These graphs show the expected progress of the Plan over the next 10 years, assuming the Plan's assets earn 7.0% on a *market value* basis and assuming all other assumptions are exactly met, including that the Actuarially Determined Contribution (ADC) amounts are made in full. The chart entitled "Plan Funding" shows a 12.4% rate for FY 26 followed by a steady decrease to 9.8%.

The "Assets and Liabilities" graph shows the projected funded ratios on an Actuarial Value of Assets basis for the Plan over the 10-year projection period. The Plan's funded status is projected to increase from 88% to 100% over the 10-year projection period, assuming all assumptions are exactly met.

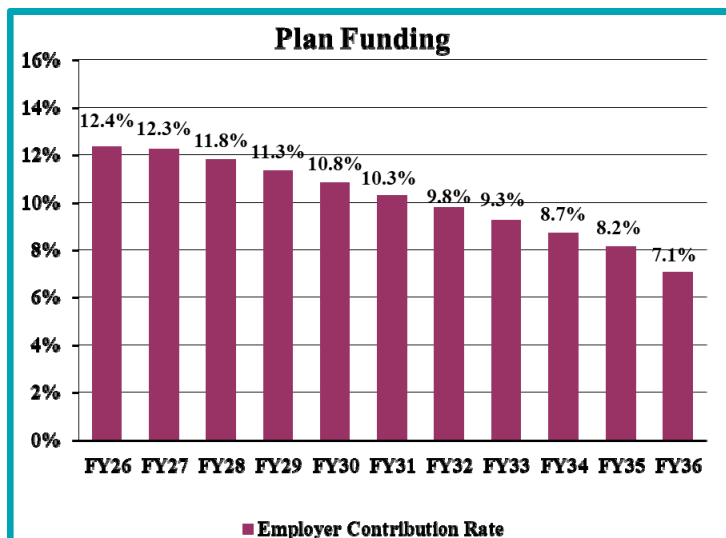


The funded ratios shown are the AVA as a percentage of AL, and the values would be different if presented as MVA as a percentage of AL.

DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

SECTION I – BOARD SUMMARY

Projections with Asset Returns of 8.0%



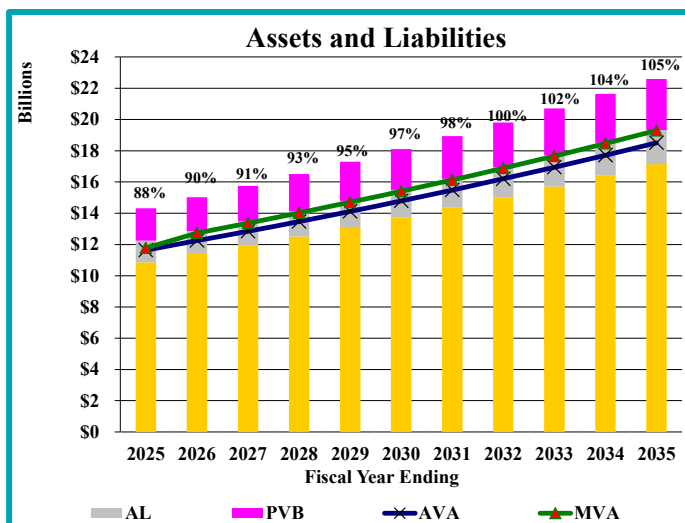
The Plan's investment earnings will affect its future funding status.

The two graphs on this page show what the next 10 years are expected to look like if the Plan's investment performance is 8.0% each year, 1.0% higher than the valuation investment rate of return assumption.

These two graphs assume all other assumptions are exactly met, including actual State contributions equaling the full actuarially determined amounts.

The "Plan Funding" graph shows that the State ADC rate would decrease under this scenario more rapidly than in the baseline case. The rate declines to 7.1% of payroll at the end of the 10-year projection period.

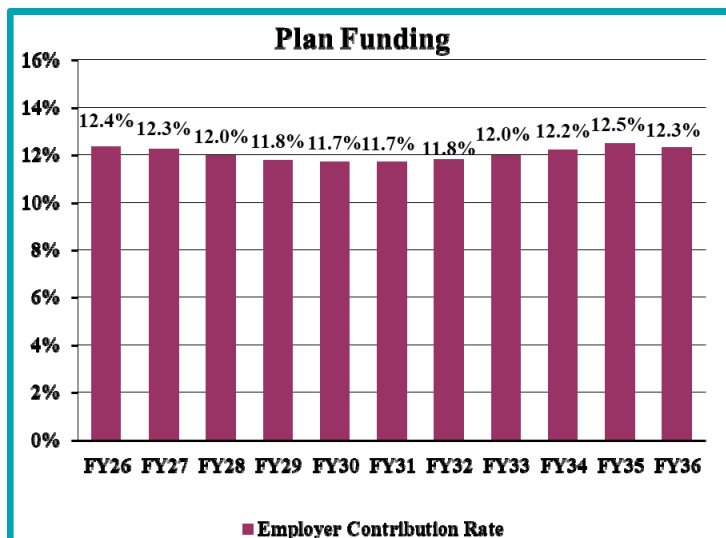
The "Assets and Liabilities" graph shows that under this scenario, the Plan would reach a 105% funded ratio by 2035, an improvement over the baseline scenario's ultimate rate of 100%. With ongoing investment gains, the Market Value would be higher than the Actuarial Value of Assets for the entire period.



The funded ratios shown are the AVA as a percentage of AL, and the values would be different if presented as MVA as a percentage of AL.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION I – BOARD SUMMARY

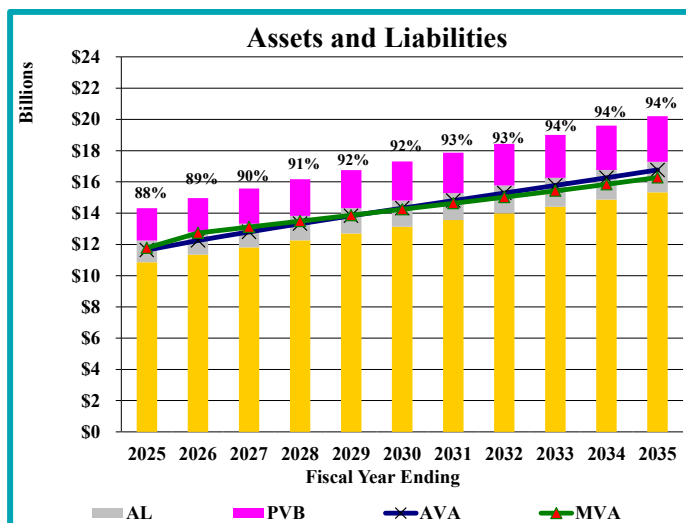


Projections with Asset Returns of 6.0%

The graphs on this page show projections of the Plan's funding status and contributions assuming that the Plan's investment performance is 6.0% each year of the projection, 1.0% lower than the valuation investment rate of return assumption.

Note that these projections assume that all other assumptions are exactly met, including actual State contributions equaling the full actuarially determined amounts.

Under this scenario, the State ADC rate increases to approximately 12.3% of payroll by the end of the 10-year projection period, greater than the 9.8% ultimate rate in the baseline projection. Additionally, the funded ratio is projected to be lower in this scenario, reaching 94% at the end of the 10-year projection period, lower than the 100% ultimate ratio in the baseline scenario. By introducing investment losses, the Market Value is lower than the Actuarial Value of Assets beginning in 2029.



The funded ratios shown are the AVA as a percentage of AL, and the values would be different if presented as MVA as a percentage of AL.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION I – BOARD SUMMARY

**Table I-1
Summary of Principal Plan Results**

Valuation as of:	June 30, 2024	June 30, 2025	% Change
<u>Member Counts</u>			
Active Members	40,420	41,480	2.62%
Disabled Members	1,095	1,045	(4.57)%
Retirees and Beneficiaries	30,647	31,270	2.03%
Terminated Vested Members	4,169	4,228	1.42%
Terminated Non-Vested Members	1,258	1,353	7.55%
Long-term Disability Members	506	504	(0.40)%
Total Member Counts	78,095	79,880	2.29%
Covered Payroll of Active Members*	\$ 2,684,201,300	\$ 2,888,628,400	7.62%
Annual Benefit Payments for Retirees, Disabled Members, and Beneficiaries	\$ 786,147,400	\$ 810,154,800	3.05%
<u>Assets and Liabilities</u>			
Actuarial Liability (AL)	\$ 13,356,577,400	\$ 13,937,214,600	4.35%
Actuarial Value of Assets (AVA)	<u>11,638,056,200</u>	<u>12,250,052,500</u>	5.26%
Unfunded AL (UAL)	\$ 1,718,521,200	\$ 1,687,162,100	(1.82)%
Funded Ratio AVA Basis (AVA/AL)	87.1%	87.9%	
Funded Ratio on MVA Basis (MVA/AL)	88.2%	91.4%	
Present Value of Accrued Benefits (PVAB)	\$ 11,893,273,300	\$ 12,359,192,300	3.92%
Market Value of Assets (MVA)	<u>11,775,032,300</u>	<u>12,737,793,100</u>	8.18%
Unfunded PVAB	\$ 118,241,000	\$ (378,600,800)	(420.19)%
Accrued Benefit Funded Ratio (MVA/PVAB)	99.0%	103.1%	
<u>State Contribution Rate</u>			
	Fiscal Year 2026	Fiscal Year 2027	
Entry Age Normal Cost	6.11%	6.03%	
UAL Amortization Payment	5.97%	5.96%	
Administrative Expense	<u>0.30%</u>	<u>0.30%</u>	
Actuarially Determined Contribution (ADC)	12.38%	12.29%	

* Assumes one year of payroll increase projection, representing payroll beginning on each valuation date.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION II – RISK DISCLOSURE

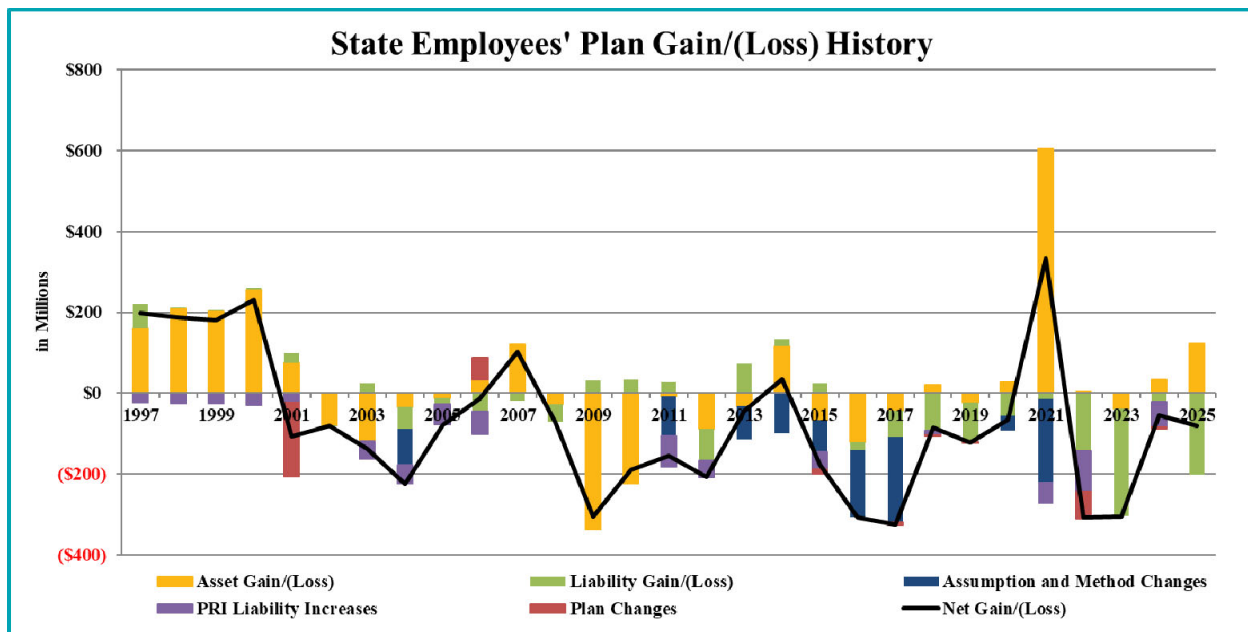
Introduction

The Plan's actuarial valuation results are dependent on assumptions about future economic and demographic experience. Based on actuarial standards of practice, the assumptions represent a reasonable estimate for future experience. However, actual future experience will never conform exactly to the assumptions and may differ significantly from the assumptions. This deviation is the risk that pension plan sponsors undertake in relying on a pension plan's actuarial valuation results.

This section of this report is intended to identify the primary drivers of these risks, provide background information and assessments about these identified risks, and communicate the significance of these risks to this plan.

Historical Experience

For this plan, the two primary measurements where there is a risk that the actual measurements will significantly differ from the expected future measurements are the measurements of the liabilities and assets of the Plan and the resulting calculation of the Actuarially Determined Contributions. Therefore, while future experience will not be the same as past experience, it is useful to look at what factors have contributed to the actual liability measurements at each valuation date deviating from that predicted by the prior year's valuation. The following graph shows the gains/(losses) for each valuation date between the actual unfunded liability measurement and the expected unfunded liability broken down by cause.



**DELAWARE STATE EMPLOYEES' PENSION PLAN
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SECTION II – RISK DISCLOSURE

This shows that the asset gain/(loss) has been the most significant risk for the Plan in general over this period in regard to the actual liability measurements deviating from the expected. After that, the next two most significant causes are the assumption and method changes and the liability gain/(loss). Additionally, this graph shows that over the whole period shown the asset gain/(loss) values have largely offset each other. Over the whole period, assumption changes and the liability gain/(loss) have had the greatest cumulative impact on the liability.

Risk Identification

Considering the specific characteristics of the Plan, the assumptions and methods used in the actuarial valuations for the Plan, and the recent history, we have identified the risks that we think are the most significant in terms of possibly leading to actual values of the measurements deviating from those expected by the valuation process, as follows:

- Investment risk,
- Longevity and other demographic risk, and
- Assumption change risk.

While we have identified these risks as potentially significant in regard to actual measurements deviating from expected, it is possible that there are other risks that we have not identified that will turn out to be significant. For example, while it is possible that the State could start paying contributions other than the Actuarially Determined Contributions, and the measurements thus differ as a result of contribution risk, we have not included contribution risk above, as this plan has consistently received contributions equal to what is assumed in the valuation process.

Investment Risk is the potential for investment returns to be different than anticipated. In the case of this plan, that is the risk that the returns on assets will be materially different from the 7.0% that is currently assumed. If actual investment returns are lower than anticipated by the assumptions used in the actuarial valuation, this will increase the unfunded liability measurements and require higher contributions in the future than if the actual returns equaled the assumed returns. On the other hand, if the actual returns are higher than the assumptions, the resulting unfunded liability measurements and Actuarially Determined Contributions will be lower than anticipated. As seen in the historical section, this has been a significant driver of deviations in the actual measurements from those expected by the prior valuations.

Longevity and Other Demographic Risk is the potential for mortality or other demographic experience to be different than expected. Generally, longevity and other demographic risks emerge slowly over time as the actual experience deviates from expected and is typically periodically reduced through the Plan's regular actuarial experience process. As such, these risks are often dwarfed by other risks, particularly those due to the investment returns. The historical section shows that this has been true for this plan historically, with the magnitude of the gains and losses from investment experience generally larger than the gains and losses from liability experience. However, during the period shown, the offsetting effects of the investment gains and losses have been such that the cumulative effect of this longevity and other demographic risk as seen in the liability gains and losses has been greater than the investment gains and losses. The

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION II – RISK DISCLOSURE

liability losses in recent years have been largely due to salary increases in excess of those assumed.

Assumption Change Risk is the potential for the environment to change such that future valuation assumptions are adjusted to be different than the current assumptions. Causes of these changes include capital market changes resulting in changes in the assumed rates of return, changes in employee behavior and/or plan provisions requiring changes in the demographic assumptions, and similar changes. Assumption change risk is an extension of the risks previously identified, but rather than capturing the risk as it is experienced, it captures the cost of recognizing a change in environment resulting in the current assumption no longer being reasonable. The historical review earlier in this section showed that assumption change risk has been a relatively significant risk for this plan over the recent historical period.

The revisions to the assumed rate of return from 8.0% to 7.5% in 2011, from 7.5% to 7.2% in 2014, and from 7.2% to 7.0% in 2017 constitute the majority of the increases to the unfunded measurements from the expected values as a result of assumption changes. Changes to the demographic assumptions to reflect mortality improvements have also had a relatively significant impact as have changes in the methodology of the funding policy throughout the years. The remaining changes to assumptions have had relatively insignificant impacts.

It is important to note that these changes simply reflect recognizing changes in the expected values of assumptions. If these revisions had not been made, we would anticipate that these amounts would be gradually recognized in the other risks. If future expectations of assumptions such as interest rates or mortality change further, we anticipate similar amounts will have to be recognized.

Plan Maturity Measures

The future financial condition of a mature pension plan is more sensitive to each of the risks identified in the previous section than a less mature plan. Before assessing the risks to the Plan from a forward-looking perspective, it is of value to understand the maturity of the Plan compared to other plans, as well as how the Plan's maturity has changed over time.

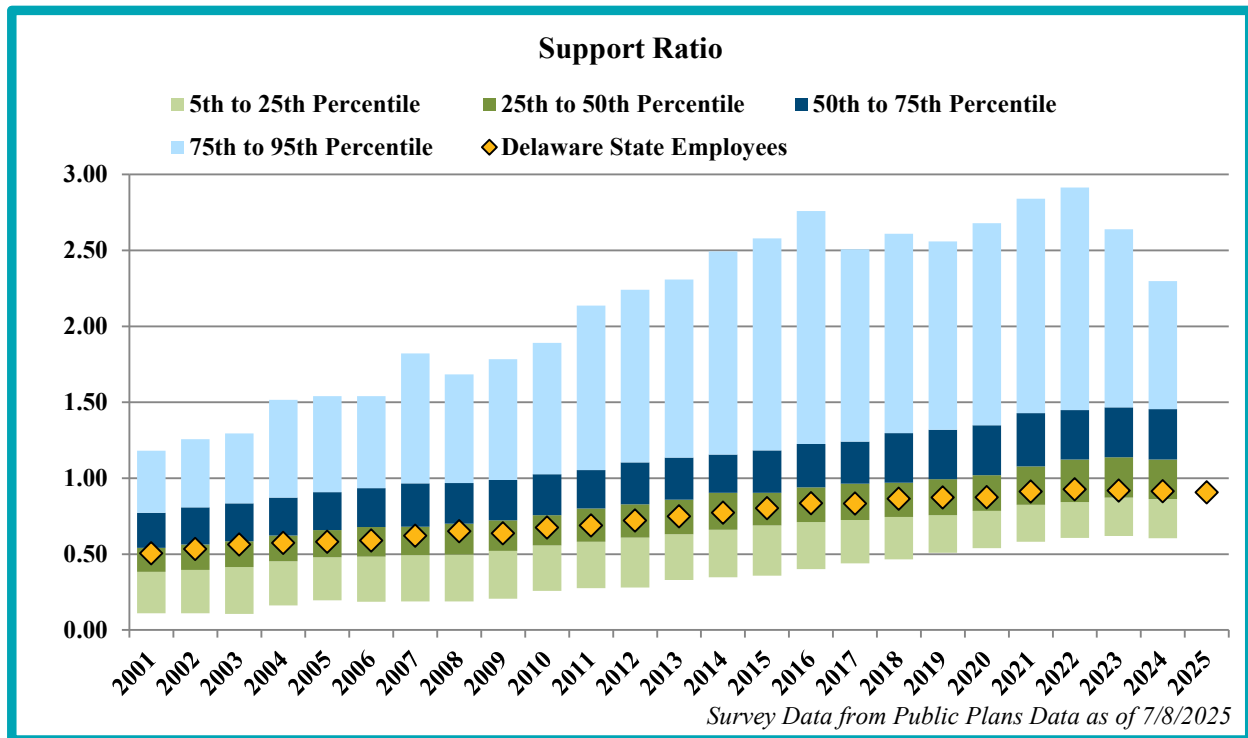
Plan maturity can be measured in a variety of ways, but they all get at one basic dynamic: the larger the plan is compared to the contribution or revenue base that supports it, the more sensitive the plan will be to risk. Extensive measures are available to assess plan maturity. For this plan, we have examined a number of these, and all indicate that the Plan is maturing, but is less mature than most of its peers. We have included the most simplistic of these measures to demonstrate this.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION II – RISK DISCLOSURE

Boston College's Center for Retirement Research, NASRA, and the Center for State and Local Government Excellence maintain the Public Plans Database, which contains the majority of state plans and many large municipal plans. It covers over 95% of the membership in public plans and over 95% of the assets held by public pension plans.

The most simplistic of the plan maturity measures is the support ratio, which is the ratio of the number of inactive members (those receiving benefits currently or entitled to a deferred benefit) to the number of active members. The following graph shows the support ratio over time for the Plan versus a universe of other public plans.



This graph shows the support ratio for the Plan as the diamonds for each year, showing that the support ratio has generally increased over time. It also shows, in the bars, the central 90% of the support ratios for the plans in the Public Plans Database as of each year. This graph shows that Delaware's support ratio is lower than a typical plan, indicating that the Plan is less mature based on this metric, and that over the recent history, the Plan's ratio has grown at a slightly slower rate as typical plans in this universe. As of the most recent dates for which the full database is available, the Delaware support ratio is approximately the 25th percentile among all plans in the database.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION II – RISK DISCLOSURE

More Detailed Assessment

A more detailed assessment is always valuable to enhance the understanding of the risks identified above. However, this value must be compared with the costs of such an exercise. The costs, in this case, are both measurable costs as expressed by the actuarial fees for the additional assessment and the cost of staff time required to support the effort, and more intangible costs, such as the additional information potentially drowning out the principal findings from the valuation and overwhelming decision makers.

Whether or not to have a more detailed risk assessment performed at this time is the Board's decision, but we do not believe that this additional risk assessment is required at this time based on our understanding of the Board's priorities.

Conclusion

The results of this valuation are based on the assumptions and methodology used within the valuation, and to the extent that actual experience deviates from these, the actual future measurements will deviate from those projected by this valuation. The most significant risks related to this are anticipated to be investment risk, mortality and other demographic risk, and assumption change risk.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION III – ASSETS

Pension plan assets play a key role in the financial operation of the Plan and in the decisions that the Board of Pension Trustees may make with respect to future deployment of those assets. The level of assets, the allocation of assets among asset classes, and the methodology used to measure assets will likely affect benefit levels, State Actuarially Determined Contributions, and the ultimate security of members' benefits.

In this section, we present detailed information on the Plan's assets including:

- **Disclosure** of the Plan's assets at June 30, 2024 and June 30, 2025,
- Statement of the **changes** in market values during FY 2025,
- Development of the **Actuarial Value of Assets**,
- An assessment of **investment performance**, and
- A projection of the Plan's expected **cash flows** for the next 10 years.

Market Value of Assets Disclosure

The Market Values of Assets represent “snap-shot” or “cash-out” values that provide the principal basis for measuring financial performance from one year to the next. However, market values can fluctuate widely with swings in the marketplace, and as such, are usually not suitable for budgeting and long-range planning.

Table III-1 below shows the market values as of June 30, 2024 and June 30, 2025, along with the changes between the two.

Table III-1 Changes in Market Value of Assets		
Market Value of Assets – June 30, 2024		\$ 11,775,032,300
<u>Additions</u>		
Member Contributions	\$ 110,088,400	
State Contributions	346,359,700	
PRI Transfers	63,067,600	
Investment Returns	<u>1,276,566,200</u>	
Total Additions	\$ 1,796,081,900	
<u>Deductions</u>		
Benefit Payments	\$ 824,847,900	
Administrative Expenses	<u>8,473,200</u>	
Total Deductions	\$ 833,321,100	
Market Value of Assets – June 30, 2025		\$ 12,737,793,100

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION III – ASSETS

Actuarial Value of Assets

The Actuarial Value of Assets represents a “smoothed” value developed by the actuary to reduce, or eliminate, erratic results that could develop from short-term fluctuations in the Market Value of Assets. The actuarial value for this plan equals the expected Actuarial Value of Assets, developed from the immediately prior valuation, plus 20% of the difference between the actual Market Value of Assets and the expected Actuarial Value of Assets at the valuation date. The table below illustrates the calculation of the Actuarial Value of Assets as of June 30, 2025.

Table III-2 Development of Actuarial Value of Assets	
1. Actuarial Value of Assets at June 30, 2024	\$ 11,638,056,200
2. Amount in (1) with interest to June 30, 2025 at 7.0% per year	12,452,720,100
3. State, PRI, and member contributions for FY 2025	519,515,700
4. Interest on contributions assuming payments made uniformly throughout the year to June 30, 2025 at 7.0% per year	17,875,500
5. Disbursements from Trust except investment expenses, June 30, 2024 through June 30, 2025	833,321,100
6. Interest on disbursements to June 30, 2025 at 7.0% per year	<u>28,672,900</u>
7. Expected Actuarial Value of Assets at June 30, 2025 = (2) + (3) + (4) – (5) – (6)	\$ 12,128,117,300
8. Actual Market Value of Assets at June 30, 2025	<u>\$ 12,737,793,100</u>
9. Excess of (8) over (7)	\$ 609,675,800
10. Actuarial Value of Assets at June 30, 2025 = (7) + 20% of (9)	\$ 12,250,052,500

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION III – ASSETS

Investment Performance

The Market Value of Assets (MVA) returned 11.0% during 2025, which is more than the prior year's assumed 7.0% investment rate of return. The Actuarial Value of Assets (AVA) returned 8.1% over this same year, reflecting the asset smoothing methodology being utilized by the Plan to measure the Actuarial Value of Assets. Because a maximum of 20% of the gain or loss from the performance of the Plan is typically recognized in a given year under the adopted asset smoothing method, in periods of very good performance, the AVA can lag significantly behind the MVA, and in a period of negative returns, the AVA does not decline as rapidly as the MVA.

Projection of Cash Flows

Table III-3 Cash Flow Projections		
Year Beginning July 1,	Expected Benefit Payments and Administrative Expenses	Expected Contributions*
2025	\$ 866,281,000	\$ 482,401,000
2026	888,985,000	491,796,000
2027	917,669,000	504,091,000
2028	945,476,000	516,693,000
2029	973,626,000	529,611,000
2030	1,002,927,000	542,851,000
2031	1,031,678,000	556,422,000
2032	1,060,560,000	570,333,000
2033	1,089,428,000	584,591,000
2034	1,118,648,000	599,206,000

* Expected contributions include State contributions, member contributions, and PRI transfers. For illustration purposes, we have assumed the State contribution rate will remain at 12.29% from FYE 2027 forward and that payroll will increase at the actuarially assumed rate of 2.50% per year.

Expected benefit payments are projected for the closed group valued at June 30, 2025. Projecting any further than 10 years using a closed group would not yield reliable projections due to the omission of new hires in the benefit payments, compounded by their inclusion in the expected contributions. Note that these projections differ from those graphed in Section I because these projections hold the contribution rate fixed, while those in Section I show how future investment gains or losses can impact the State's contribution.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION IV – LIABILITIES

In this section, we present detailed information on the Plan's liabilities for funding purposes, including:

- **Disclosure** of the Plan's liabilities at June 30, 2024 and June 30, 2025, and
- Statement of **changes** in these liabilities during the year.

Disclosure

Three liability measurements are calculated and presented in this report. Each type is distinguished by the purpose or purposes for which it is used.

- **Present Value of Benefits (PVB):** Used for analyzing the financial outlook of plans, this represents the amount of money needed today to fund all future benefits and expenses of a plan, assuming current members continue to accrue benefits, there are no new entrants, and that all actuarial assumptions are met.
- **Actuarial Liability (AL):** Used for funding calculations for a plan and GASB disclosures, this liability is calculated by taking the present value of benefits (PVB) and subtracting the present value of future member contributions (PVFEEC) and the present value of future State normal costs (PVFNC) under an acceptable actuarial funding method. The Plan uses the **Entry Age Normal** funding method.
- **Present Value of Accrued Benefits (PVAB):** Used for communicating the current level of liabilities, this liability represents the total amount of money needed today to fully fund the current accrued obligations of a plan, assuming no future accruals of benefits or salary increases. These liabilities are also required for some accounting purposes of some plans (Topic No. 960). This plan is not subject to this requirement, but this information is provided for informational purposes, as it is sometimes used as part of assessing whether a plan can meet its current benefit commitments. However, it is not intended as a settlement liability value. Note that the development of this amount also assumes that all actuarial assumptions are met, including the assets earning 7.0% per year.

None of the liability amounts disclosed in this report are appropriate for measuring a settlement of the Plan's liabilities.

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

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION IV – LIABILITIES

**Table IV-1
Liabilities and Net (Surplus)/Unfunded Amounts**

	June 30, 2024	June 30, 2025
<u>Present Value of Benefits</u>		
Active Member Benefits	\$ 7,570,603,700	\$ 8,113,563,200
Retiree, Beneficiary, Disabled, and Terminated Member Benefits	<u>7,977,429,200</u>	<u>8,184,712,600</u>
Present Value of Benefits (PVB)	\$ 15,548,032,900	\$ 16,298,275,800
Market Value of Assets (MVA)	\$ 11,775,032,300	\$ 12,737,793,100
Future Member Contributions	915,326,300	1,004,493,900
Future State Contributions & PRI Fund Transfers	<u>2,857,674,300</u>	<u>2,555,988,800</u>
Total Resources	\$ 15,548,032,900	\$ 16,298,275,800
<u>Actuarial Liability</u>		
Present Value of Benefits (PVB)	\$ 15,548,032,900	\$ 16,298,275,800
Present Value of Future State Normal Costs (PVFNC)	1,276,129,200	1,356,567,300
Present Value of Future Member Contributions (PVFEEC)	<u>915,326,300</u>	<u>1,004,493,900</u>
Actuarial Liability (AL=PVB–PVFNC–PVFEEC)	\$ 13,356,577,400	\$ 13,937,214,600
Actuarial Value of Assets (AVA)	<u>11,638,056,200</u>	<u>12,250,052,500</u>
Net (Surplus)/Unfunded AL (AL – AVA)	\$ 1,718,521,200	\$ 1,687,162,100
<u>Present Value of Accrued Benefits</u>		
Present Value of Benefits (PVB)	\$ 15,548,032,900	\$ 16,298,275,800
Present Value of Future Benefit Accruals (PVFBA)	<u>3,654,759,600</u>	<u>3,939,083,500</u>
Present Value of Accrued Benefits (PVAB=PVB–PVFBA)	\$ 11,893,273,300	\$ 12,359,192,300
Market Value of Assets (MVA)	\$ 11,775,032,300	\$ 12,737,793,100
Net (Surplus)/Unfunded PVAB (PVAB – MVA)	\$ 118,241,000	\$ (378,600,800)

DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

SECTION IV – LIABILITIES

Low-Default-Risk Obligation Measure (LDROM)

The System invests in a diversified portfolio with the objective of maximizing investment returns at a reasonable level of risk. The lowest risk portfolio for a pension plan would be composed entirely of low-default-risk fixed income securities whose cash flows match the benefit cash flows of the System. Such a portfolio, however, would have a lower expected rate of return than the diversified portfolio. The LDROM represents what the Present Value of Accrued Benefits would be if the System invested its assets in such a portfolio. As of June 30, 2025, we estimate that a portfolio representative of the Financial Times Stock Exchange (FTSE) Pension Liability index would have an expected return of 5.50% rounded to the nearest 0.25%, compared to the System's discount rate of 7.00%, and the LDROM would be \$14.6 billion compared to the Present Value of Accrued Benefits of \$12.4 billion. The \$2.2 billion difference represents the expected taxpayer savings from bearing the risk of investing in the diversified portfolio. Alternatively, it also represents the cost of eliminating the investment risk.

If the System were to invest in the LDROM portfolio, the reported funded status would decrease, and contribution requirements would increase. Benefit security for members of the plan relies on a combination of the assets in the System, the investment returns generated on those assets, and the promise of future contributions. If the System were to invest in the LDROM portfolio, it would not change the amount of assets currently in the System, but it would reduce expected future investment returns and increase expected future contributions. However, the range of future investment returns and future contributions needed would narrow significantly.

Changes in Liabilities

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

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

Unfunded liabilities (or surpluses), developed from subtraction of an appropriate value of Plan assets from these liability measures, will change because of all of the above as well as due to changes in Plan asset measures resulting from:

- State contributions different than expected
- Investment earnings different than expected
- A change in the methodology used to measure Plan assets

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION IV – LIABILITIES

In each valuation, we report on those elements of change that are of particular significance, potentially affecting the long-term financial outlook of the Plan. Below we present key changes in the liabilities since the last valuation, in millions.

Table IV-2 Liability Changes			
(In Millions)	Present Value of Benefits	Actuarial Liability	Present Value of Accrued Benefits
Liabilities June 30, 2024	\$ 15,548	\$ 13,357	\$ 11,893
Liabilities June 30, 2025	16,298	13,937	12,359
Liability Increase/(Decrease)	750	580	466
Change Due to:			
PRI	0	0	0
Actuarial (Gain)/Loss	NC *	202	NC *
Benefit Changes	0	0	0
Assumption Changes	0	0	0
Benefits Accumulated and Other (Gain)/Loss	750	378	466

* NC = not calculated

DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

SECTION IV – LIABILITIES

Table IV-3 below provides additional information about the liability measurements for funding purposes as of the current and the immediately prior valuations.

Table IV-3		
Actuarial Liabilities for Funding		
	June 30, 2024	June 30, 2025
1. Actuarial Liabilities		
Retiree, Beneficiary, Disabled, and Terminated Members	\$ 7,977,429,200	\$ 8,184,712,600
Active Members	<u>5,379,148,200</u>	<u>5,752,502,000</u>
Total Actuarial Liability (AL)	\$ 13,356,577,400	\$ 13,937,214,600
2. Actuarial Value of Assets (AVA)	\$ 11,638,056,200	\$ 12,250,052,500
3. Unfunded Actuarial Liability (UAL) [AL – AVA]	\$ 1,718,521,200	\$ 1,687,162,100
4. Present Value of Outstanding PRI Transfers	\$ 63,067,600	\$ 0
5. Outstanding Base for 20-Year 2018 UAL Amortization		
(13 Years Remaining as of June 30, 2025)	\$ 1,305,343,300	\$ 1,266,767,700
6. Outstanding Base for 15-Year 2019 UAL Amortization		
(9 Years Remaining as of June 30, 2025)	\$ 109,197,000	\$ 102,771,800
7. Outstanding Base for 15-Year 2020 UAL Amortization		
(10 Years Remaining as of June 30, 2025)	\$ 63,732,800	\$ 60,579,400
8. Outstanding Base for 15-Year 2021 UAL Amortization		
(11 Years Remaining as of June 30, 2025)	\$ (334,785,300)	\$ (320,823,700)
9. Outstanding Base for 15-Year 2022 UAL Amortization		
(12 Years Remaining as of June 30, 2025)	\$ 170,035,000	\$ 164,058,500
10. Outstanding Base for 15-Year 2023 UAL Amortization		
(13 Years Remaining as of June 30, 2025)	\$ 321,272,900	\$ 311,778,600
11. Outstanding Base for 15-Year 2024 UAL Amortization		
(14 Years Remaining as of June 30, 2025)	\$ 20,657,900	\$ 20,147,200
12. Net Base for 15-Year 2025 UAL Amortization (3. – (sum of 4. - 11.))	N/A	\$ 81,882,600

DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

SECTION V – CONTRIBUTIONS

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

For this plan, the funding method employed is the **Entry Age Normal** actuarial funding method. Under this method, the total contribution has three components: the **normal cost contribution**, the **unfunded actuarial liability contribution** (UAL contribution), and the **administrative expense contribution**.

The State normal cost contribution rate is determined in the following steps. First, for each active member, an individual total normal cost rate is determined by taking the value, as of entry age into the Plan, of that member's projected future benefits and dividing it by the value, also at entry age, of the member's expected future salary. Then the member's contribution rate reduces this individual total normal cost rate to produce the State normal cost rate for each member. This State normal cost rate times payroll for each active member equals the State normal cost. The sum of the State normal cost amounts for all active members is then divided by the covered payroll for all active members to produce the State normal cost contribution rate.

The actuarial liability is that portion of the present value of projected benefits that will not be paid by future State normal cost contributions or future member contributions. The difference between this liability and the funds accumulated as of the same date is referred to as the unfunded actuarial liability (UAL).

The UAL amortization payment rate is calculated by amortizing this UAL, after subtracting the present value of scheduled PRI transfers, over closed amortization periods. All payments are determined assuming total pay increases by the current annual inflation assumption of 2.50%.

The current assumed administrative expense rate is 0.30% of payroll. When applied to payroll, this rate is intended to provide an allowance above the cost of funding the benefits to pay for the expense of operating the Plan.

The table below presents and compares the State contribution rates for the Plan based on this funding valuation and the immediately prior one.

Table V-1		
State Contribution Rate		
Valuation Date	June 30, 2024	June 30, 2025
FY Contribution Rate Payable	FY 2026	FY 2027
State Entry Age Normal Cost Rate*	6.11%	6.03%
UAL Amortization Payment Rate*	5.97%	5.96%
Administrative Expense Rate	<u>0.30%</u>	<u>0.30%</u>
Actuarially Determined Contribution Rate	12.38%	12.29%

* The State normal cost rate was lowered to account for new hires entering the post-2011 benefit tier, which provides a different benefit structure and requires higher employee contributions.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION V – CONTRIBUTIONS

Table V-2 below provides additional detail about the development of the actuarially determined State contribution rate as well as the expected dollar amounts these rates will result in for FY 2027.

Table V-2 Expected FY 2027 State Contributions		
	In Dollars	As % of Payroll
1. Present Value of Projected Benefits Attributable to:		
a. Total Normal Cost	\$ 298,973,000	10.35%
b. Expected Member Contributions	<u>124,788,700</u>	<u>4.32%</u>
c. State Normal Cost (a) – (b)	\$ 174,184,300	6.03%
2. Amortization of Unfunded Liability		
a. 13-year Amortization of 2018 UAL	\$ 128,767,800	4.46%
b. 9-year Amortization of 2019 Layer	13,941,000	0.48%
c. 10-year Amortization of 2020 Layer	7,545,400	0.26%
d. 11-year Amortization of 2021 Layer	(37,056,500)	(1.28%)
e. 12-year Amortization of 2022 Layer	17,716,300	0.61%
f. 13-year Amortization of 2023 Layer	31,692,500	1.10%
g. 14-year Amortization of 2024 Layer	1,939,000	0.07%
h. 15-year Amortization of 2025 Layer	<u>7,498,200</u>	<u>0.26%</u>
i. Total Amortization	\$ 172,043,700	5.96%
3. Allowance for Administrative Expense	<u>\$ 8,665,900</u>	<u>0.30%</u>
4. Total State Actuarially Determined Contribution (1c) + (2i) + (3)	\$ 354,893,900	12.29%

DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

SECTION VI – ACCOUNTING STATEMENT INFORMATION

ASC Topic No. 960 of the Financial Accounting Standards Board (FASB) requires plans subject to it to disclose certain information regarding their funded status. This plan is not subject to this requirement, but this information is provided for informational purposes. Statement No. 67 of the Governmental Accounting Standards Board (GASB) establishes standards for disclosure of pension information by public employee retirement systems (PERS) and governmental employers in notes to financial statements and supplementary information.

Disclosures based on FASB ASC Topic No. 960 provide a quasi “snap-shot” view of how the Plan’s assets compare to its liabilities if contributions stopped and accrued benefit claims had to be satisfied. However, due to potential legal requirements and the possibility that alternative interest rates would have to be used to determine the liabilities, these values may not be a good indication of the amount of money it would take to buy the benefits for all members if the Plan were to terminate and should not be considered a settlement value.

FASB ASC Topic No. 960 specifies that a comparison of the present value of accrued (accumulated) benefits with the market value of the assets as of the valuation date must be provided. Again this plan is not subject to this requirement but the relevant amounts as of June 30, 2024 and June 30, 2025 are provided for informational purposes and are exhibited in Table VI-1, which also includes a reconciliation of liabilities determined as of the prior valuation, July 1, 2024, to the liabilities as of June 30, 2025. These values are based on the funding liability results.

This valuation contains information reported in the June 30, 2025 Annual Comprehensive Financial Report (ACFR) of Delaware PERS under GASB Statement No. 67. Disclosures are based on the use of updated procedures to roll forward the 2024 funding valuation results. The calculation of Net Pension Liability in Table V-2 shows the amounts to be disclosed for FY 2025, based on the liabilities of the roll forward of the 2024 funding valuation, as well as a projection of the anticipated FY 2026 disclosures, based on liabilities from the 2025 funding valuation, assuming all actuarial assumptions are met over the coming year. The actual disclosures for FY 2026 will be developed once the asset measure for GASB as of June 30, 2026 is known.

Tables VI-3 through VI-5 are exhibits to be used for the State’s ACFR. Table VI-3 is the Note to Required Supplementary Information. Table VI-4 is a history of gains and losses in actuarial liability. Table VI-5 is the Schedule of Funded Liabilities by Type, which shows the portion of actuarial liability covered by the Actuarial Value of Assets. The Government Finance Officers Association (GFOA) has named this exhibit the Schedule of Funded Liabilities by Type. None of the liabilities or assets shown are appropriate for settlement purposes. Furthermore, the Schedule of Funded Liabilities by Type does not accurately depict a plan’s future financial condition, but rather is a test developed by the GFOA to assess the level of funding that relies on the payroll for future hires to pay for the benefits that have already been accrued by the current population. This valuation does not contain the additional disclosures required by GASB Statement No. 68, only for the State’s ACFR.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION VI – ACCOUNTING STATEMENT INFORMATION

**Table VI-1
Accounting Statement Disclosure and
Reconciliation of Present Value of Accrued Benefits**

	June 30, 2024	June 30, 2025
FASB ASC Topic No. 960 Basis		
1. Present Value of Accrued Benefits (PVAB)		
a. Members Currently Receiving Payments	\$ 7,620,835,700	\$ 7,802,593,300
b. Former Vested Members (and LTDs)	356,593,500	382,119,300
c. Active Members	<u>3,915,844,100</u>	<u>4,174,479,700</u>
2. Total PVAB [1(a) + 1(b) + 1(c)]	\$ 11,893,273,300	\$ 12,359,192,300
3. Market Value of Assets (MVA)	<u>11,775,032,300</u>	<u>12,737,793,100</u>
4. Unfunded PVAB [2 – 3]	\$ 118,241,000	\$ (378,600,800)
5. Ratio of MVA to PVAB [3 / 2]	99.0%	103.1%
Reconciliation of PVAB		
PVAB at June 30, 2024		\$ 11,893,273,300
Increase/(Decrease) During Year Attributable to:		
Passage of Time		804,147,700
Benefits Paid – FY 2025		(824,847,900)
Benefit Change (PRI)		0
Plan Change		0
Assumption Changes		0
Benefits Accrued, Other Gains/Losses		<u>486,619,200</u>
Net Increase/(Decrease)		465,919,000
PVAB at June 30, 2025		\$ 12,359,192,300

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION VI – ACCOUNTING STATEMENT INFORMATION

Table VI-2 GASB No. 67 Disclosures		
	June 30, 2025	Estimated June 30, 2026
<u>Total Pension Liability (TPL)</u>		
Service cost	\$ 277,251,000	\$ 298,703,000
Interest	925,987,000	967,006,000
Changes in benefit terms	0	0
Differences between expected and actual experience	20,341,000	202,248,000
Changes in assumptions	0	0
Benefit payments, including refunds of member contributions	(824,846,000)	(857,615,000)
Net change in TPL	\$ 398,733,000	\$ 610,342,000
TPL – beginning	\$ 13,336,236,000	\$ 13,734,969,000
TPL - ending (a)	\$ 13,734,969,000	\$ 14,345,311,000
<u>Fiduciary Net Position (FNP)</u>		
Contributions – State	\$ 346,360,000	\$ 357,612,000
Contributions - Non-employer (PRI)	63,068,000	0
Contributions State – Ad Hoc	0	0
Contributions – Member	110,088,000	124,789,000
Net investment income	1,276,566,000	878,437,000
Benefit payments, including refunds of member contributions	(824,846,000)	(857,615,000)
Administrative expenses	(8,473,000)	(8,666,000)
Net change in FNP	\$ 962,763,000	\$ 494,557,000
FNP – beginning	\$ 11,775,032,000	\$ 12,737,795,000
FNP - ending (b)	\$ 12,737,795,000	\$ 13,232,352,000
Net Pension Liability/(Asset) - ending [(a)-(b)]	\$ 997,174,000	\$ 1,112,959,000

Items printed in red will be replaced with actual amounts once known at the end of FY 2026. The Plan will perform an experience study in early 2026 which could impact the estimated results shown above for FY 2026.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION VI – ACCOUNTING STATEMENT INFORMATION

**Table VI-3
Note to Required Supplementary Information**

The June 30, 2025 total pension liability presented in Table VI-2 was determined as part of the measurement at the date indicated. Additional information as of the latest measurement date follows.

Measurement date:	July 1, 2025
Valuation date:	July 1, 2024
Actuarial cost method:	Entry age normal
Actuarial assumptions:	
Investment rate of return*	7.0%
Projected salary increases*	2.5% plus merit component based on service
Cost-of-living adjustments	ad hoc
* Includes inflation at	2.50%

The Actuarially Determined Contribution for fiscal year 2027 will use the contribution rate developed in Section V of this valuation. It was determined using the measurement date and key assumptions that follow.

Measurement date:	July 1, 2025
Valuation date:	July 1, 2025
Actuarial cost method:	Entry age normal
Amortization method:	Percentage of pay – closed Pay increases at 2.5% per year
Amortization period:	Separate periods for the UAL as of June 30, 2018 (13 years remaining as of 6/30/2025), and 15-year layers for unexpected changes in UAL after 6/30/2018 Equivalent single amortization period of 12.8 years
Asset valuation method:	Smoothed market, 20% annual market weight
Actuarial assumptions:	
Investment rate of return*	7.0%
Projected salary increases*	2.5% plus merit component based on service
Cost-of-living adjustments	ad hoc
* Includes inflation at	2.50%

The actuarial assumptions used have been recommended by the actuary and adopted by the Plan's Board of Pension Trustees based on the most recent review of the Plan's experience completed in 2021. The economic assumptions were updated first effective with the 2017 valuation based on the Board's annual review of these assumptions.

The total rate of State contributions to the Plan is composed of the State normal cost rate, the unfunded actuarial liability amortization payment rate, and the administrative expenses rate. The State normal cost rate is a level percent of payroll cost that, along with member contributions, will pay for projected benefits at retirement for each active member. The actuarial liability is that portion of the present value of projected benefits that will not be paid by future State normal costs or future member contributions. The difference between this liability and the funds accumulated as of the same date is the unfunded actuarial liability. The allowance for administrative expenses is based upon the Plan's actual administrative expenses.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

SECTION VI – ACCOUNTING STATEMENT INFORMATION

**Table VI-4
Analysis of Financial Experience**

**Gain and Loss in Actuarial Liability during Years Ended June 30
Resulting from Differences between Assumed Experience and Actual Experience**

Type of Activity	<i>Gain (or Loss) for Year Ending June 30, (expressed in thousands)</i>					
	2020	2021	2022	2023	2024	2025
Investment Income on Actuarial Assets	\$ 27,665	\$ 605,628	\$ 2,425	\$ (38,942)	\$ 34,244	\$ 121,935
Combined Liability Experience	<u>(57,066)</u>	<u>(14,600)</u>	<u>(143,397)</u>	<u>(266,232)</u>	<u>(20,341)</u>	<u>(202,248)</u>
(Loss)/Gain during Year from Financial Experience	\$ (29,401)	\$ 591,028	\$ (140,972)	\$ (305,174)	\$ 13,903	\$ (80,313)
Non-Recurring Items	<u>(36,342)</u>	<u>(258,789)</u>	<u>(167,265)</u>	<u>0</u>	<u>(67,974)</u>	<u>0</u>
Composite Gain (or Loss) during Year	\$ (65,743)	\$ 332,239	\$ (308,237)	\$ (305,174)	\$ (54,071)	\$ (80,313)

**Table VI-5
Schedule of Funded Liabilities by Type
Aggregate Actuarial Liabilities for
(expressed in thousands)**

Valuation Date June 30,	Active Member Contributions	Retirees & Beneficiaries	Active Member State Financed Contributions	Actuarial Value Reported Assets	Portion of Actuarial Liabilities Covered by Reported Assets		
	(1)	(2)	(3)		(1)	(2)	(3)
2025	\$ 1,088,798	\$ 7,802,593	\$ 5,045,824	\$ 12,250,053	100%	100%	67%
2024	1,016,983	7,620,836	4,718,758	11,638,056	100	100	64
2023	946,068	7,430,548	4,525,612	11,224,758	100	100	63
2022	895,833	7,214,080	4,204,603	10,793,497	100	100	64
2021	854,430	6,908,505	3,937,557	10,428,561	100	100	68
2020	814,818	6,548,190	3,774,974	9,528,170	100	100	57

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX A – MEMBERSHIP INFORMATION

Delaware State Employees' Pension Plan Data Reconciliation									
	A	P-TDV	P-RET	PRET25	P-DIS	P-LTD	P-SURV	PSUR25	Total
1. June 30, 2024 valuation	40,420	4,169	26,189	304	1,095	506	4,149	5	76,837
2. Additions									
(a) New entrants	4,444	160	29			3			4,636
(b) New Beneficiary/QDRO							353	1	354
(c) Total	4,444	160	29			3	353	1	4,990
3. Reductions									
(a) Terminated - not vested	(2,093)								(2,093)
(b) Paid Out/Expired/Death		(77)	(757)	(2)	(53)	(32)	(286)		(1,207)
(c) Total	(2,093)	(77)	(757)	(2)	(53)	(32)	(286)		(3,300)
4. Changes in status									
(a) P-TDV	(311)	352	(1)			(40)			
(b) Returned to work	142	(106)	(11)			(25)			
(c) P-RET	(925)	(258)	1,236			(53)			
(d) PRET25	(55)			56		(1)			
(e) P-DIS	(2)	(1)			3				
(f) P-LTD	(140)	(6)				146			
(g) P-SURV		(5)					5		
(h) PSUR25									
(i) P-SR									
(j) Data corrections									
(k) Total	(1,291)	(24)	1,224	56	3	27	5		
5. June 30, 2025 valuation	41,480	4,228	26,685	358	1,045	504	4,221	6	78,527

A=Active, P-TDV=Terminated Deferred Vested, P-RET=Retired, PRET25=Retired, P-DIS=Disabled, P-LTD=Long-Term Disabled, P-SURV=Surviving Beneficiary, PSUR25=Surviving Beneficiary

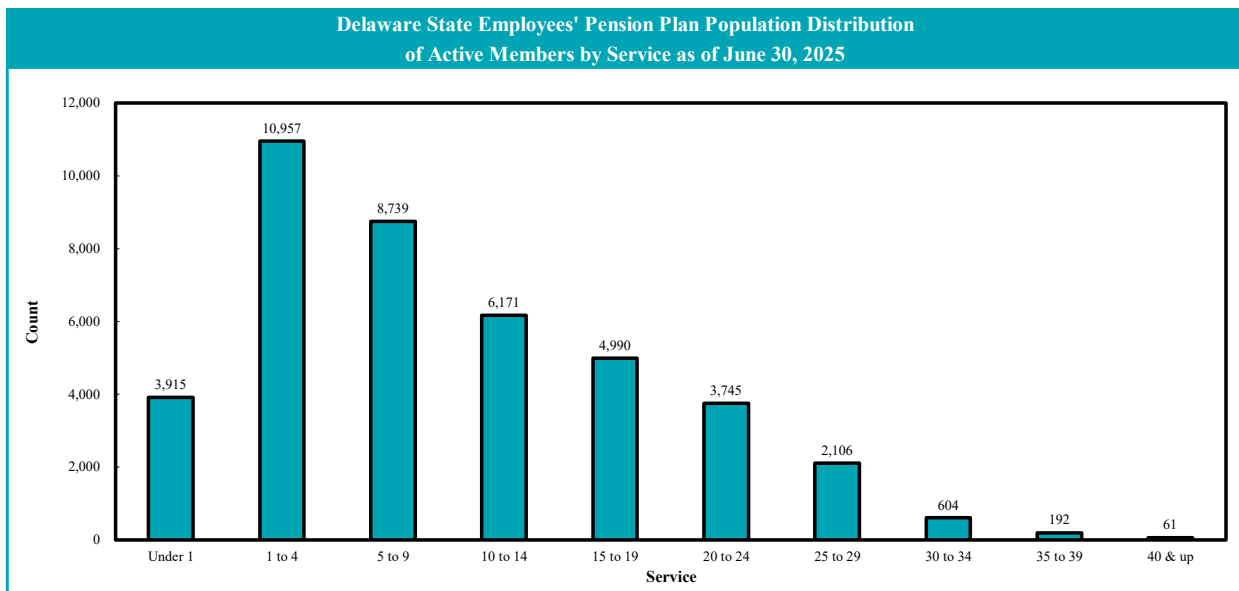
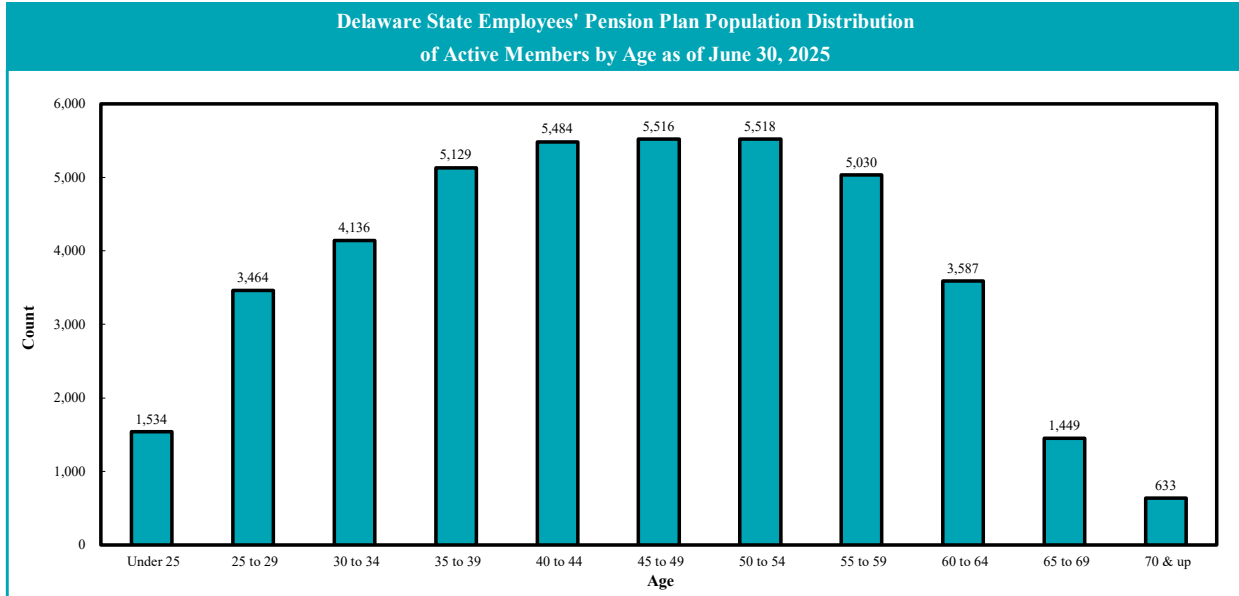
**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX A – MEMBERSHIP INFORMATION

Delaware State Employees' Pension Plan Population Distribution of Active Members by Age and Service as of June 30, 2025											
Counts By Age/Service											
Age	Service										Total
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	
Under 25	739	790	5	0	0	0	0	0	0	0	1,534
25 to 29	691	2,131	637	5	0	0	0	0	0	0	3,464
30 to 34	493	1,554	1,712	376	1	0	0	0	0	0	4,136
35 to 39	509	1,390	1,375	1,416	430	9	0	0	0	0	5,129
40 to 44	394	1,268	1,089	1,004	1,264	458	7	0	0	0	5,484
45 to 49	307	1,066	1,053	825	857	1,080	325	3	0	0	5,516
50 to 54	265	948	980	746	796	852	801	125	5	0	5,518
55 to 59	265	831	850	812	759	669	530	258	54	2	5,030
60 to 64	157	590	606	644	571	469	299	144	90	17	3,587
65 to 69	70	261	283	241	221	159	111	53	29	21	1,449
70 & up	25	128	149	102	91	49	33	21	14	21	633
Total	3,915	10,957	8,739	6,171	4,990	3,745	2,106	604	192	61	41,480

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX A – MEMBERSHIP INFORMATION



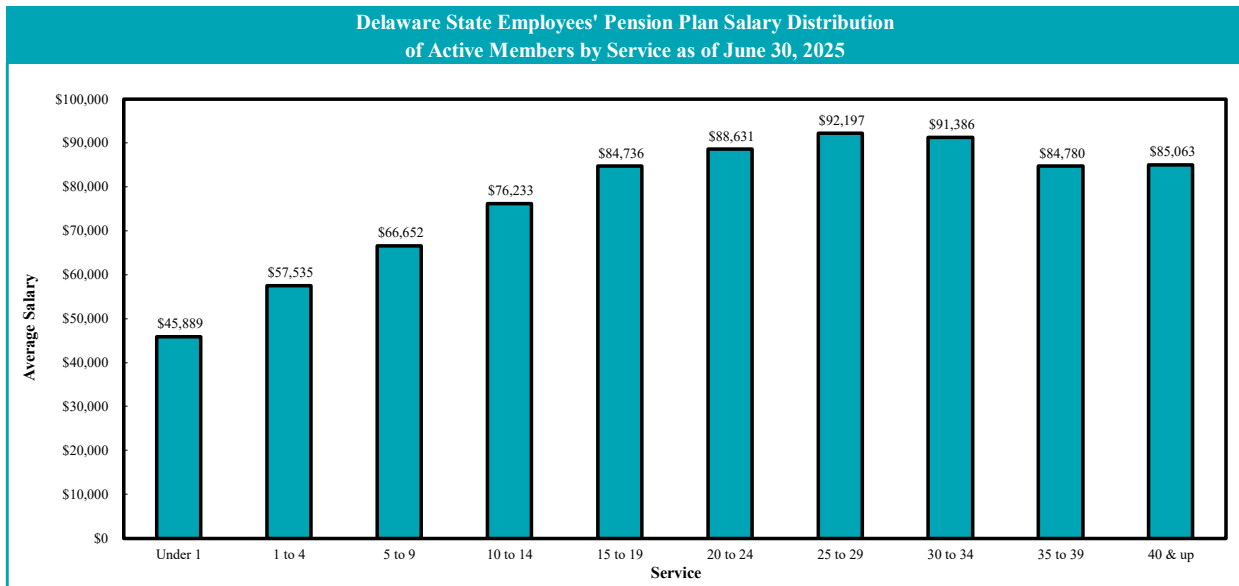
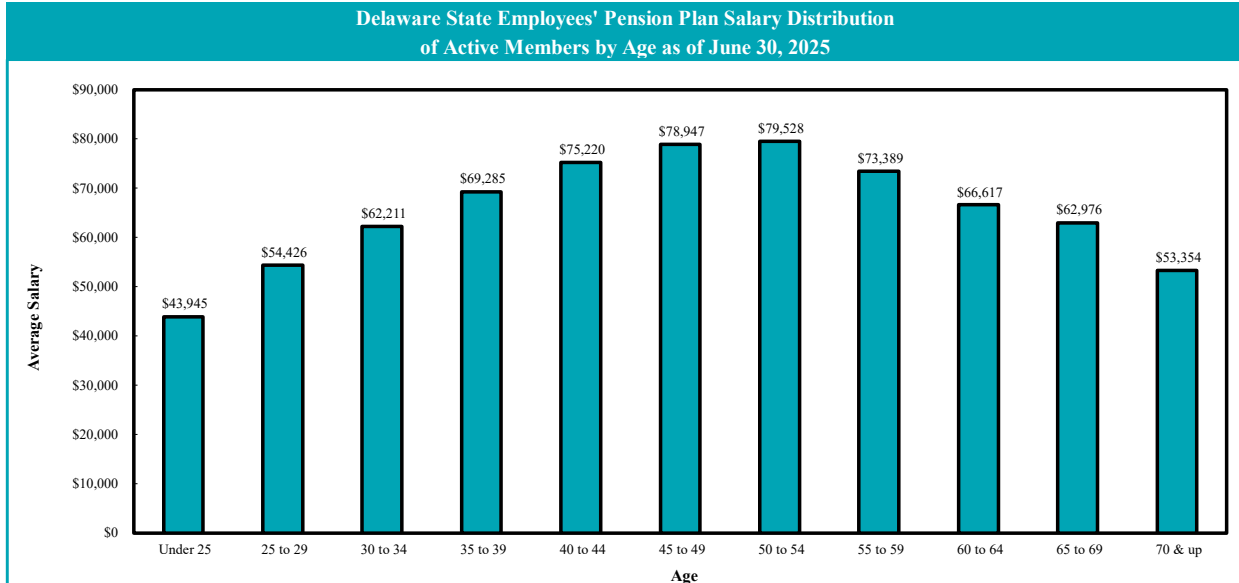
**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX A – MEMBERSHIP INFORMATION

Delaware State Employees' Pension Plan Salary Distribution of Active Members by Age and Service as of June 30, 2025											
Average Salary by Age/Service											
Age	Service										Total
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	
Under 25	\$ 38,408	\$ 49,102	\$ 47,294	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$43,945
25 to 29	43,858	55,966	60,760	51,391	0	0	0	0	0	0	54,426
30 to 34	47,441	57,486	67,794	75,707	55,554	0	0	0	0	0	62,211
35 to 39	45,696	58,779	69,269	81,641	90,691	61,923	0	0	0	0	69,285
40 to 44	49,976	60,234	70,107	80,691	92,276	91,858	52,824	0	0	0	75,220
45 to 49	50,790	62,751	70,584	79,149	90,398	96,042	98,420	59,543	0	0	78,947
50 to 54	51,925	60,550	69,421	79,527	85,816	92,519	101,265	93,800	68,210	0	79,528
55 to 59	52,409	61,183	64,229	71,879	77,974	83,093	89,256	95,580	85,146	60,437	73,389
60 to 64	48,427	54,376	60,124	65,274	71,891	75,941	76,190	85,573	84,613	83,202	66,617
65 to 69	41,932	49,161	56,090	60,198	69,129	76,242	75,314	84,999	96,517	97,228	62,976
70 & up	33,903	38,265	44,372	54,474	64,301	69,688	68,209	86,024	66,047	76,750	53,354
Total	\$ 45,889	\$ 57,535	\$ 66,652	\$ 76,233	\$ 84,736	\$ 88,631	\$ 92,197	\$ 91,386	\$ 84,780	\$ 85,063	\$69,637

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX A – MEMBERSHIP INFORMATION



**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX A – MEMBERSHIP INFORMATION

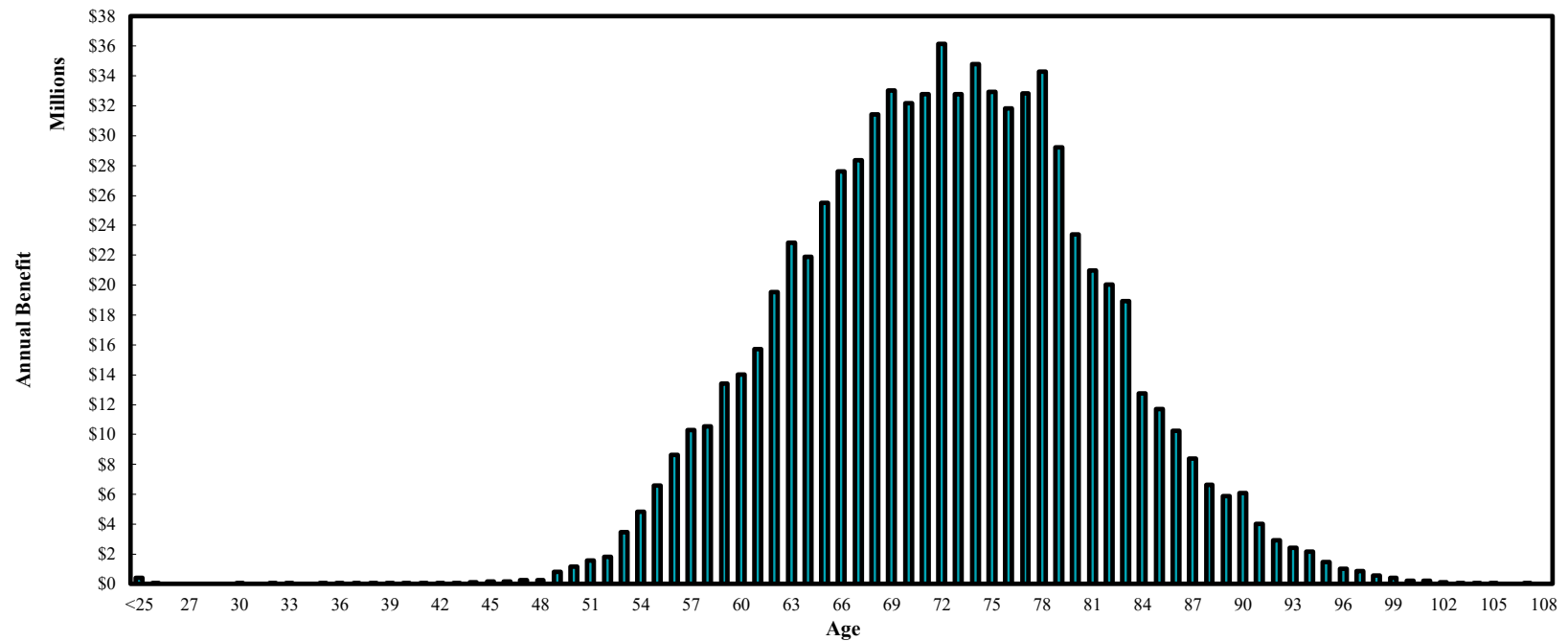
**Delaware State Employees' Pension Plan Annual Benefit Distribution
of Retired Members and Beneficiaries as of June 30, 2025**

Age	Count	Annual Benefit	Age	Count	Annual Benefit
<25	54	\$ 401,006	68	1,250	\$ 31,440,227
25	2	15,594	69	1,311	33,014,637
26	0	-	70	1,256	32,152,602
27	0	-	71	1,285	32,777,109
28	0	-	72	1,336	36,120,072
29	0	-	73	1,255	32,785,987
30	1	14,530	74	1,296	34,798,911
31	0	-	75	1,318	32,916,165
32	2	31,849	76	1,231	31,838,676
33	1	38,554	77	1,243	32,838,898
34	0	-	78	1,344	34,270,480
35	1	16,360	79	1,115	29,207,602
36	1	18,173	80	878	23,419,522
37	1	7,574	81	791	20,975,279
38	3	47,537	82	853	20,034,864
39	1	6,757	83	795	18,919,963
40	1	14,198	84	583	12,756,318
41	3	48,395	85	555	11,687,967
42	2	23,412	86	491	10,247,281
43	1	10,160	87	414	8,368,554
44	6	120,864	88	350	6,613,529
45	7	157,571	89	312	5,867,643
46	11	149,945	90	334	6,101,713
47	17	261,255	91	250	4,025,148
48	12	259,379	92	196	2,903,654
49	28	815,872	93	176	2,422,751
50	36	1,171,808	94	143	2,171,847
51	47	1,586,973	95	112	1,462,632
52	58	1,820,190	96	65	1,008,807
53	97	3,497,764	97	65	846,256
54	134	4,840,952	98	43	559,094
55	186	6,587,457	99	35	438,820
56	245	8,641,197	100	16	207,086
57	293	10,280,828	101	13	240,137
58	311	10,571,367	102	7	105,267
59	393	13,417,915	103	8	52,382
60	441	13,998,619	104	5	43,363
61	483	15,725,033	105	2	15,659
62	677	19,545,855	106	0	-
63	886	22,858,051	107	2	22,373
64	862	21,872,205	108	0	-
65	1,005	25,526,488	109	0	-
66	1,090	27,624,401	110	0	-
67	1,137	28,374,970	111	0	-
			Totals	31,270	\$796,080,336

DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

APPENDIX A – MEMBERSHIP INFORMATION

Delaware State Employees' Pension Plan Annual Benefit Distribution by Age
of Retired Members and Beneficiaries as of June 30, 2025



**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX A – MEMBERSHIP INFORMATION

**Delaware State Employees' Pension Plan Annual Benefit
Distribution by Age of Vested Members as of June 30, 2025**

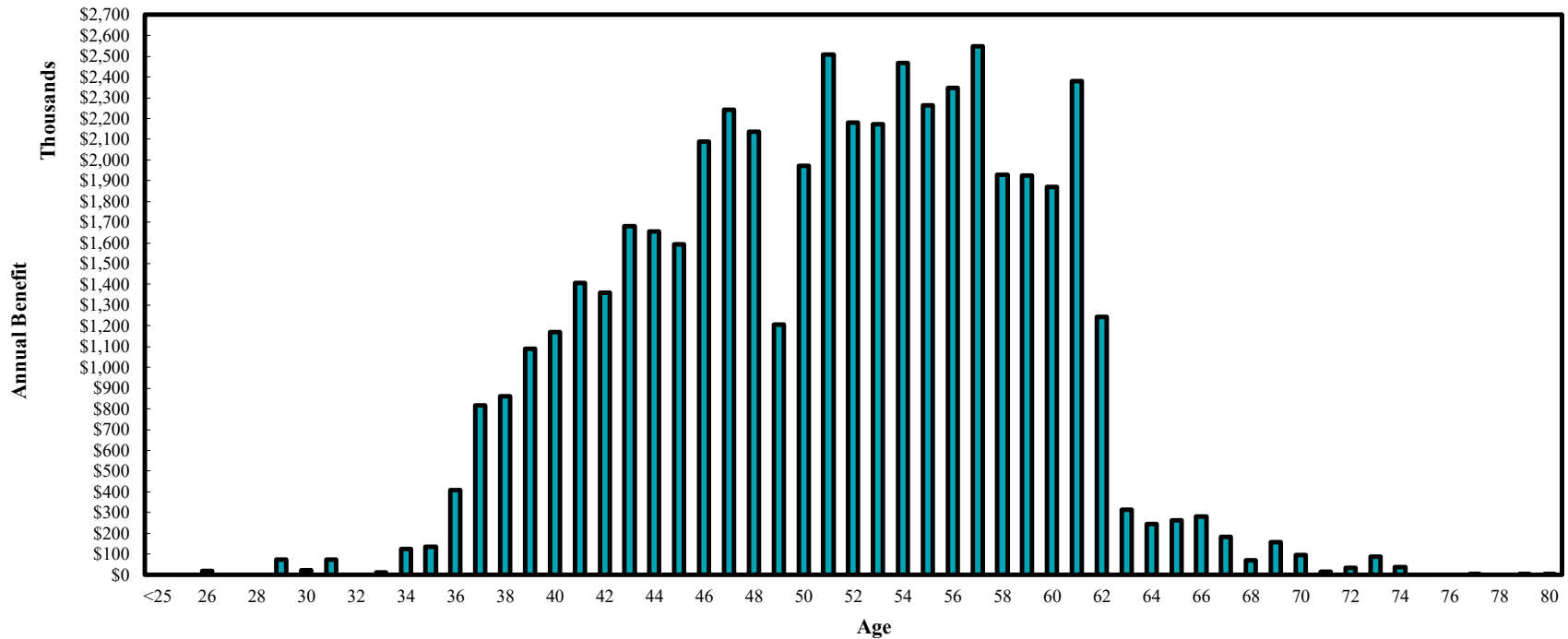
Age	Count	Annual Benefit	Age	Count	Annual Benefit
<25	0	\$ -	58	168	\$ 1,928,182
25	0	-	59	202	1,925,118
26	1	18,773	60	200	1,870,793
27	0	-	61	224	2,380,589
28	0	-	62	122	1,242,446
29	2	74,943	63	36	313,578
30	1	22,670	64	31	246,332
31	2	74,717	65	27	261,327
32	0	-	66	19	280,237
33	2	10,688	67	17	181,477
34	7	124,043	68	10	69,179
35	14	135,232	69	15	155,778
36	45	408,501	70	8	95,846
37	77	816,435	71	3	15,858
38	83	861,509	72	6	33,866
39	106	1,089,391	73	3	87,720
40	116	1,171,757	74	4	36,293
41	120	1,408,180	75	0	-
42	125	1,360,072	76	0	-
43	147	1,682,138	77	1	3,691
44	142	1,653,517	78	0	-
45	130	1,593,718	79	2	593
46	156	2,087,908	80	1	2,735
47	160	2,242,114	81	0	-
48	159	2,134,831	82	0	-
49	104	1,207,626	83	0	-
50	151	1,971,533	84	0	-
51	172	2,507,599	85	0	-
52	170	2,181,038	86	0	-
53	171	2,172,178	87	0	-
54	184	2,466,495	88	1	10,978
55	166	2,262,016	89	0	-
56	196	2,348,679	90	0	-
57	214	2,548,970	91	0	-
Totals				4,223	\$ 49,779,886

Amounts shown are those payable once the participant reaches retirement eligibility.

DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

APPENDIX A – MEMBERSHIP INFORMATION

Delaware State Employees' Pension Plan Annual Benefit Distribution
by Age of Vested Members as of June 30, 2025



Amounts shown are those payable once the participant reaches retirement eligibility.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX A – MEMBERSHIP INFORMATION

**Delaware State Employees' Pension Plan Annual Benefit
Distribution by Age of Disabled Members as of June 30, 2025**

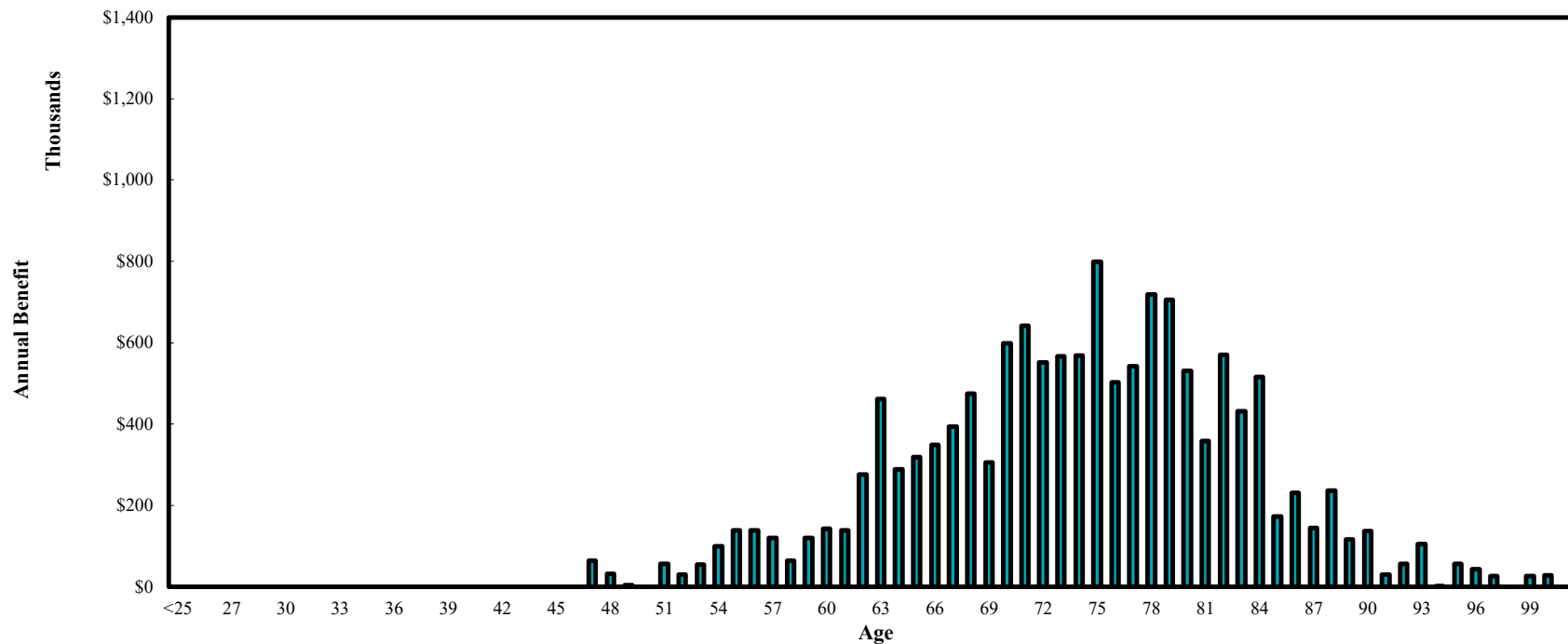
Age	Count	Annual Benefit	Age	Count	Annual Benefit
<25	0	\$ -	68	31	\$ 474,409
25	0	-	69	34	305,371
26	0	-	70	47	597,881
27	0	-	71	43	640,488
28	0	-	72	45	551,676
29	0	-	73	46	567,117
30	0	-	74	40	568,027
31	0	-	75	50	798,611
32	0	-	76	42	503,143
33	0	-	77	46	542,103
34	0	-	78	48	718,538
35	0	-	79	46	705,134
36	0	-	80	34	530,523
37	0	-	81	28	357,571
38	0	-	82	39	569,362
39	0	-	83	33	430,533
40	0	-	84	32	516,454
41	0	-	85	11	172,898
42	0	-	86	18	231,213
43	0	-	87	14	144,065
44	0	-	88	15	236,741
45	0	-	89	7	115,846
46	0	-	90	12	137,145
47	3	63,250	91	4	30,231
48	3	31,029	92	3	56,163
49	1	4,349	93	8	105,197
50	0	-	94	1	1,748
51	4	56,742	95	5	55,623
52	3	30,774	96	5	43,071
53	5	54,046	97	1	25,773
54	8	99,143	98	0	-
55	11	138,081	99	1	26,640
56	5	138,533	100	1	27,588
57	9	120,145	101	0	-
58	8	63,199	102	0	-
59	11	119,094	103	0	-
60	14	142,687	104	0	-
61	15	139,298	105	0	-
62	19	275,832	106	0	-
63	27	461,625	107	0	-
64	24	288,103	108	0	-
65	26	318,963	109	0	-
66	32	349,189	110	0	-
67	27	393,467	111	0	-
Totals				1,045	\$ 14,074,430

Individuals shown on this page are those currently receiving disability benefit from the Plan.

DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

APPENDIX A – MEMBERSHIP INFORMATION

Delaware State Employees' Pension Plan Annual Benefit
Distribution by Age of Disabled Members as of June 30, 2025



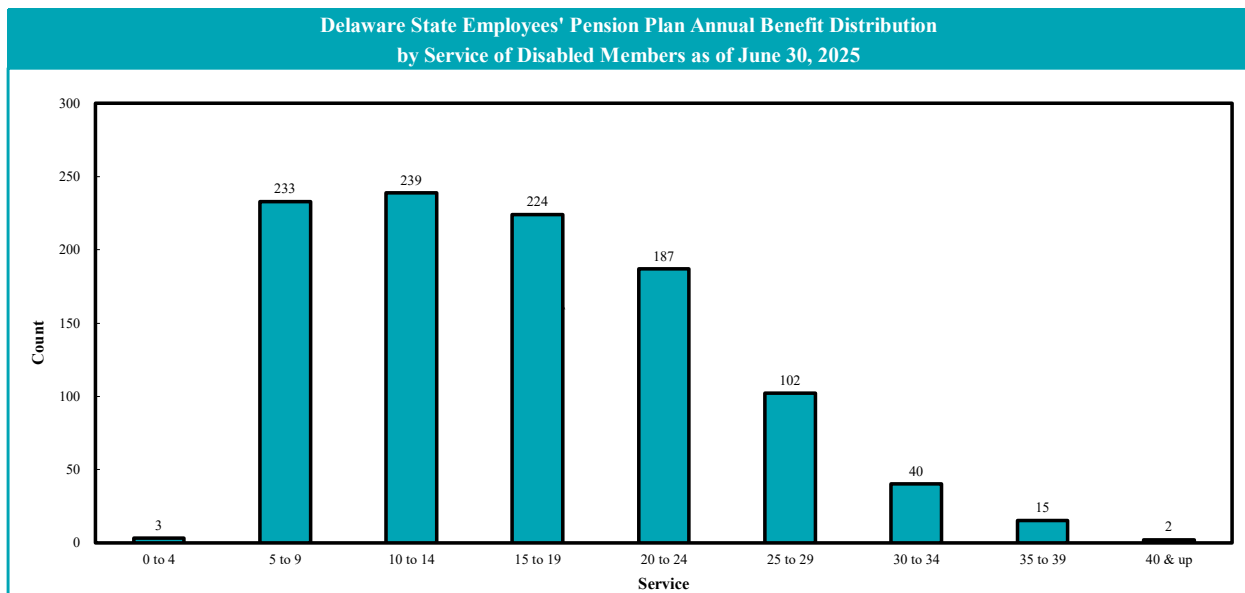
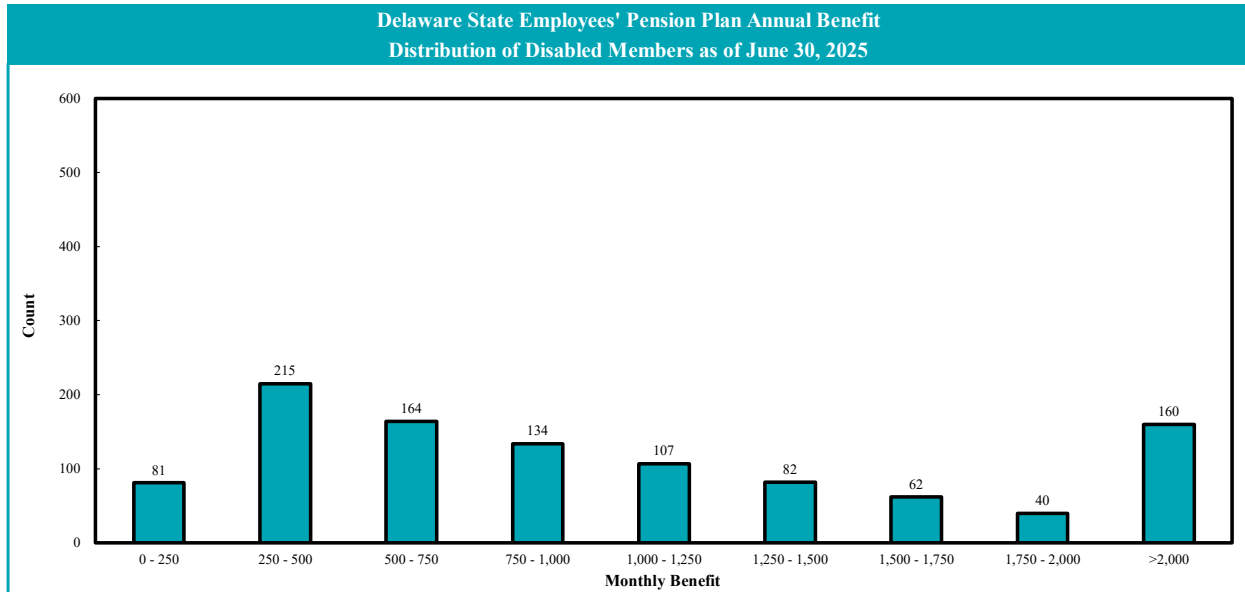
**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX A – MEMBERSHIP INFORMATION

Delaware State Employees' Pension Plan Annual Benefit Distribution by Service of Disabled Members as of June 30, 2025										
Monthly Benefit	Counts By Benefit/Service									Total
	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	
0 - 250	0	76	5	0	0	0	0	0	0	81
250 - 500	0	124	74	13	4	0	0	0	0	215
500 - 750	3	22	88	41	10	0	0	0	0	164
750 - 1,000	0	6	32	60	28	6	2	0	0	134
1,000 - 1,250	0	3	21	43	35	3	2	0	0	107
1,250 - 1,500	0	1	10	24	33	12	2	0	0	82
1,500 - 1,750	0	1	6	19	19	11	5	1	0	62
1,750 - 2,000	0	0	1	8	18	10	1	2	0	40
>2,000	0	0	2	16	40	60	28	12	2	160
Total	3	233	239	224	187	102	40	15	2	1,045

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX A – MEMBERSHIP INFORMATION



**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX A – MEMBERSHIP INFORMATION

**Delaware State Employees' Pension Plan Annual Benefit
Distribution by Age of Long-Term Disability Members as of June 30, 2025**

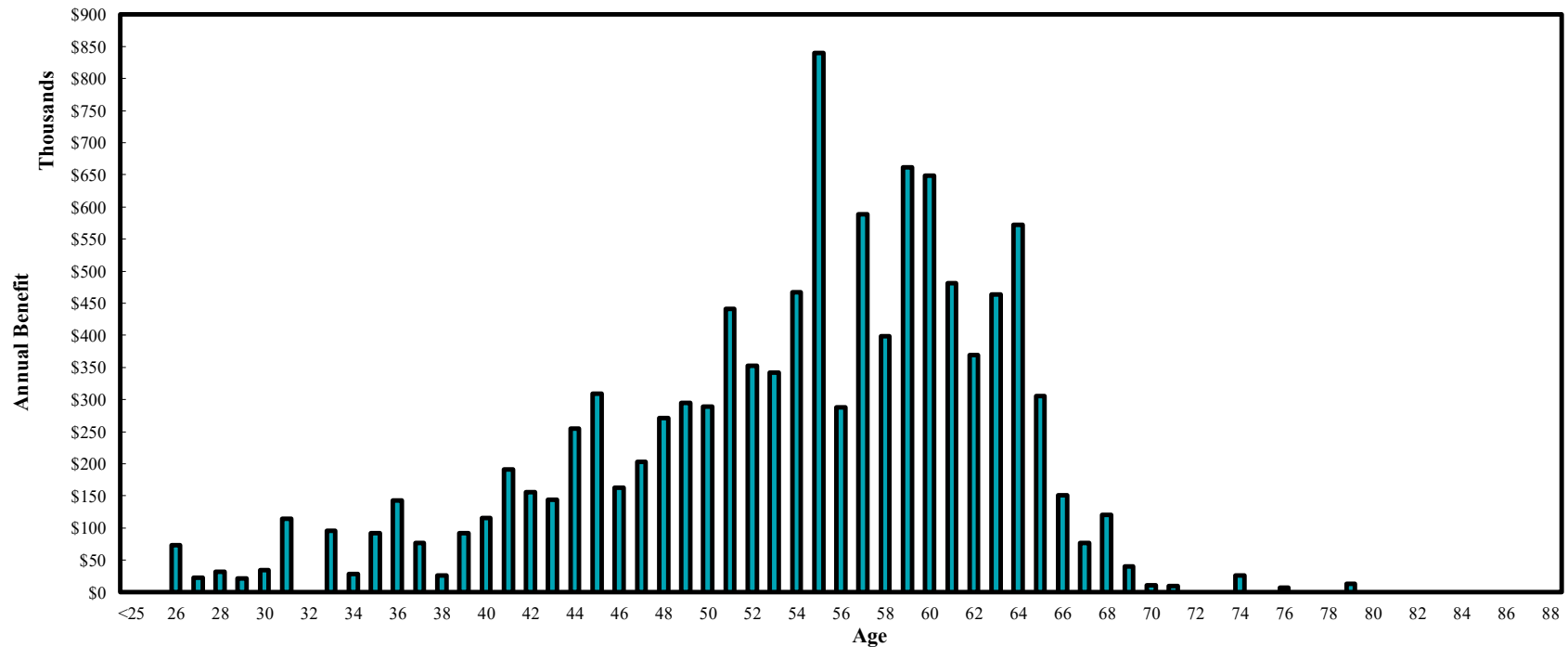
Age	Count	Annual Benefit	Age	Count	Annual Benefit
<25	0	\$ -	58	17	\$ 399,082
25	0	-	59	31	661,996
26	3	73,391	60	36	648,900
27	1	22,608	61	24	481,772
28	1	32,379	62	24	369,266
29	1	21,613	63	31	463,932
30	1	34,429	64	33	571,858
31	4	114,909	65	23	305,141
32	0	-	66	10	150,578
33	4	95,400	67	8	76,727
34	1	28,687	68	9	120,379
35	4	91,547	69	3	40,328
36	4	142,625	70	3	11,222
37	3	76,287	71	2	8,923
38	2	25,791	72	0	-
39	4	91,928	73	0	-
40	5	115,576	74	3	25,827
41	8	190,776	75	0	-
42	5	155,481	76	1	6,668
43	6	143,418	77	0	-
44	9	255,283	78	0	-
45	11	308,716	79	1	13,356
46	5	163,373	80	0	-
47	9	203,269	81	0	-
48	9	270,812	82	0	-
49	9	294,425	83	0	-
50	10	288,616	84	0	-
51	13	441,370	85	0	-
52	15	353,162	86	0	-
53	15	341,514	87	0	-
54	20	467,297	88	0	-
55	26	840,366	89	0	-
56	12	287,784	90	0	-
57	25	588,887	91	0	-
Totals				504	\$ 10,917,670

These individuals are currently receiving benefits from the Disability Insurance Program. The amounts shown here are those payable once these participants reach retirement eligibility.

DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025

APPENDIX A – MEMBERSHIP INFORMATION

Delaware State Employees' Pension Plan Annual Benefit Distribution
by Age of Long Term Disability Members as of June 30, 2025



Amounts shown are those payable once the participant reaches retirement eligibility.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

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

1. Demographic Assumptions

a. Rates of Mortality

Mortality rates are based on the sex-distinct employee, healthy annuitant, and disabled annuitant mortality tables described below, including adjustment factors applied to the published tables for each group. Future mortality improvements are reflected by applying a custom projection scale on a generational basis to adjusted base tables from the base year shown below.

**i. Sample Rates of Mortality for Active Healthy Lives at Selected Ages
(number of deaths per 10,000 members):**

(2025 Values Shown)		
Age	Male	Female
25	3	1
30	5	2
35	7	3
40	9	4
45	10	5
50	14	8
55	21	12
60	33	19
65	46	28
70	64	43
75	96	71
80	154	121

Rates are based on 100% of the Pub-2010 General Employee Mortality Table, for males and females, using the Pub-2010 General Benefits Weighted Healthy Annuitant Mortality Table rates after the end of the General Employee Mortality Table, both projected from the 2010 base rates using the RPEC-2020 model, with an ultimate rate of 0.85% for ages 20-80, grading down to an ultimate rate of 0% for ages 114-120, and convergence to the ultimate rate in the year 2027. The valuation uses a fully generational projection of mortality improvements. Sample rates shown are those projected through the valuation date.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

**ii. Sample Rates of Mortality for Healthy Annuitant Lives at Selected Ages
(number of deaths per 10,000 members):**

(2025 Values Shown)		
Age	Male	Female
50	29	20
55	44	29
60	67	40
65	97	58
70	149	92
75	251	165
80	454	306
85	842	585
90	1,474	1,101
95	2,309	1,806
100	3,326	2,721

Rates are based on 107% and 100% of the Pub-2010 General Benefits Weighted Healthy Annuitant Mortality Table, respectively, for males and females, using the Pub-2010 General Employee Mortality Table for ages prior to start of the Healthy Annuitant Mortality Table, both projected from the 2010 base rates using the RPEC-2020 model, with an ultimate rate of 0.85% for ages 20-80, grading down to an ultimate rate of 0% for ages 114-120, and convergence to the ultimate rate in the year 2027. The valuation uses a fully generational projection of mortality improvements. Sample rates shown are those projected through the valuation date.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
ACTUARIAL VALUATION AS OF JUNE 30, 2025**

APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

**iii. Sample Rates of Mortality for Disabled Annuitant Lives at Selected Ages
(number of deaths per 10,000 members):**

(2025 Values Shown)		
Age	Male	Female
25	36	22
30	54	38
35	74	59
40	91	79
45	112	101
50	159	145
55	215	185
60	273	215
65	323	225
70	381	264
75	489	371
80	699	579
85	1,060	932
90	1,633	1,389
95	2,383	1,962
100	3,326	2,884

Rates are based on 107% and 106% of the Pub-2010 Non-Safety Benefits Weighted Disabled Annuitant Mortality Table, respectively, for males and females, projected from the 2010 base rates using the RPEC-2020 model, with an ultimate rate of 0.85% for ages 20-80, grading down to an ultimate rate of 0% for ages 114-120, and convergence to the ultimate rate in the year 2027. The valuation uses a fully generational projection of mortality improvements. Sample rates shown are those projected through the valuation date.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

b. Sample Rates of Active Disability

Rates of Active Disability	
Age	Rates
20	0.030%
25	0.030
30	0.150
35	0.230
40	0.320
45	0.410
50	0.500
55	0.800
60	0.960

Rates of Active Disability for those who opted into the Disability Insurance Program*	
Age	Rates
65	1.000%
70	1.500
75	1.500
80	1.500

* For those who remained in the Pension Plan for disability purposes, the assumption stops at age 64.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

c. Termination of Employment Rates (Prior to Retirement Eligibility)

Rates of Termination*	
Service	Rates
0	17.2%
1	15.2
2	11.4
3	9.9
4	7.7
5	6.5
6	5.9
7	5.0
8	4.7
9	4.0
10	3.4
11	3.1
12	2.6
13	2.3
14	2.1
15-16	1.8
17	1.3
18-19	1.2
20-21	1.1
22	0.9
23	0.6
24	0.3
25+	0.0

* Termination rates are zero once a member has reached early or normal retirement eligibility regardless of service.

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d. Rates of Retirement

Retirement Rates*					
General Employees (including Elected Officials)			Correctional Officers/ Specified Peace Officers		
Service	Early*	Normal	Service	Early*	Normal
5	0.0%	18.0%	5	0.0%	18.0%
6	0.0	12.0	6	0.0	12.0
7	0.0	12.0	7	0.0	12.0
8	0.0	16.0	8	0.0	16.0
9	0.0	16.0	9	0.0	16.0
10	0.0	22.0	10	0.0	22.0
11	0.0	15.0	11	0.0	15.0
12	0.0	15.0	12	0.0	15.0
13	0.0	15.0	13	0.0	15.0
14	0.0	15.0	14	0.0	15.0
15	7.0	22.0	15	8.5	22.0
16	4.0	18.0	16	8.3	19.9
17	4.0	12.5	17	7.4	17.8
18	4.0	12.5	18	5.9	12.5
19	4.0	12.5	19	8.1	13.2
20	10.0	31.2	20	10.1	31.2
21	10.0	23.8	21	8.4	32.5
22	10.0	21.6	22	8.4	35.0
23	7.5	21.2	23	15.8	35.0
24	7.5	18.6	24	8.9	35.0
25	10.0	28.4	25	N/A	35.0
26	7.5	23.2	26	N/A	23.2
27	5.5	24.1	27	N/A	24.1
28	10.0	23.5	28	N/A	23.5
29	14.0	25.1	29	N/A	25.1
30	N/A	25.5	30	N/A	26.7
31	N/A	21.7	31	N/A	26.7
32	N/A	22.2	32	N/A	26.7
33	N/A	20.2	33	N/A	26.7
34	N/A	20.2	34	N/A	26.7
35+	N/A	22.8	35+	N/A	26.7

* Rates only applicable if a member meets eligibility.

Terminated vested members are assumed to retire when they first become eligible for unreduced retirement benefits.

100% retirement is assumed upon reaching age 80.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

e. Salary Increase Rates

Service-based table includes an annual inflation rate of 2.50%.

Service	Increase
0	13.26%
1	9.57
2	6.50
3	6.09
4	5.58
5	5.37
6	5.06
7	4.96
8	4.55
9	4.35
10	4.04
11	3.83
12	3.73
13	3.53
14	3.42
15	3.27
16	2.91
17	2.81
18	2.71
19	2.60
20	2.50
21+	2.29

Elected Officials are assumed to receive a flat 2.5% increase annually.

f. Family Composition

Female spouses are assumed to be three years younger than males. 70% are assumed married for both male and female employees. This assumption applies to both the pre-retirement death benefits as well as the 50% J&S form of payment post retirement.

Actual marital characteristics are used for pensioners.

2. Economic Assumptions

- | | |
|--|-------|
| a. Investment Rate of Return net of investment fees: | 7.00% |
| b. General Wage Increase Rate: | 2.50% |
| c. Annual Assumed Cost-of-Living Increase Rate for Retirees: | 0.00% |
| d. Total Payroll Increase Rate (for Amortization): | 2.50% |
| e. Administrative Expenses as a Percentage of Covered Payroll: | 0.30% |

**DELAWARE STATE EMPLOYEES' PENSION PLAN
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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

3. Technical and Miscellaneous Assumptions

- | | |
|--------------------------------------|---|
| a. Decrement timing: | Middle of year, except at 100% retirement, which is assumed at the beginning of year |
| b. Eligibility timing: | As of beginning of year |
| c. Terminated vested marital status: | All terminated vested members are assumed married for purposes of both the pre-retirement death benefit and electing the 50% J&S form of payment post retirement. |
| d. Employee contribution adjustment: | Proportion of employees under post-2011 benefits adjusted to reflect anticipated proportion in year contribution rate will be paid in developing state normal cost rate. |
| e. Disability retirement age: | Members are assumed to defer receipt of their disability pension benefits until the earlier of reaching an accrued benefit of 60% of FAC, or reaching their maximum duration of LTD benefits per the following table: |

Age at Disability	Benefit Duration (Months)
Before 60	To age 65
60	60
61	48
62	42
63	36
64	30
65	24
66	21
67	18
68	15
69+	12

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

4. Disclosures Regarding Models Used

In accordance with Actuarial Standard of Practice (ASOP) No. 56 *Modeling*, the following disclosures are made:

a. Valuation Software

Cheiron utilizes ProVal, an actuarial valuation software program leased from Winklevoss Technologies (WinTech), to calculate liabilities and projected benefit payments. We have reviewed the underlying workings of this model to the degree feasible and consistent with ASOP No. 56 and believe them to be appropriate for the purposes of the valuation.

b. Projections

This valuation report includes projections of future contributions and funded status for the purpose of assisting the Board of Pension Trustees and the sponsors of the Plan with the management of the Plan.

The projections are based on the same census data and financial information as of June 30, 2025 as disclosed in this actuarial valuation. The projections assume continuation of the Plan provisions and actuarial assumptions in effect as of June 30, 2025 and do not reflect the impact of any changes in benefits or actuarial assumptions that may be adopted after June 30, 2025.

The projections assume that all future assumptions are met except where specifically indicated. The future outcomes become increasingly uncertain over time, and therefore the general trends and not the absolute values should be considered in the review of these projections. Further, for the purpose of these projections, we have only reflected the impact of new entrants entering the Plan in aggregate and have not developed individual liabilities or detailed profiles related to these potential new entrants. We feel this is appropriate for the purpose of these projections, but if they were to be used for other purposes, this may not be appropriate and alternative projections may need to be developed.

5. Rationale for Assumptions

The assumptions were adopted by the Board of Pension Trustees upon the recommendation of the actuary, based on an experience study review performed in 2021 and covering the period July 1, 2015 through June 30, 2020. The Board continually reviews the investment rate of return assumption and adopted a reduced rate of 7.0% at the advice of its investment consultants, first effective for funding with the 2017 valuation. We find the investment return assumption to be reasonable based on the System's current asset allocation and the capital market outlook of the Delaware Office of the State Treasurer and Cash Management Policy Board.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

6. Disclosure for Reasonable Actuarially Determined Contribution Method (ADC)

The rate determined in this valuation meets the requirements of a reasonable ADC as defined by the Actuarial Standards of Practice. The actuarial methods used to determine the reasonable ADC have been selected to balance benefit security, intergenerational equity, and stability of contributions. The selection of the actuarial methods has taken into account the demographics of plan members, the funding goals and objectives of the Board, and the need to accumulate assets to make benefit payments when due.

7. Changes and Rationale Since Last Valuation

None

**DELAWARE STATE EMPLOYEES' PENSION PLAN
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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

B. Actuarial Methods

1. Funding Method

The Entry Age Normal funding method is used to determine costs. Under this funding method, a normal cost rate is determined as a level percent of pay for each active member. The normal cost rate times payroll equals the normal cost for each active member. The normal cost plus member contributions will pay for projected benefits at retirement for each active plan participant.

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

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

The UAL as of July 1, 2018 uses a 20-year period as a level percentage of payroll. PRI transfers are made to pay for each PRI as granted. These transfers are treated as a receivable for purposes of developing the State rate. UAL layers arising in future valuations will be amortized over their own 15-year periods. All payments are determined assuming total payroll increases by the annual inflation rate.

2. Actuarial Value of Assets

For purposes of determining the State contribution rate to the Plan, we use an Actuarial Value of Assets. This asset smoothing method dampens the volatility in asset values that could occur because of fluctuations in market conditions. Use of an asset smoothing method is consistent with the long-term nature of the actuarial valuation process.

The Actuarial Value of Assets is a weighted average giving 20% weight to the current market value and 80% weight to the prior year's actuarial value increased by expected interest and contributions and decreased by benefit payments and expenses. This is mathematically equivalent to recognizing 100% of the actuarially assumed interest rate, plus contributions, less payment each year, and 20% of the portion of each year's returns that have not already been reflected in asset values.

3. Changes Since Last Valuation

None

**DELAWARE STATE EMPLOYEES' PENSION PLAN
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APPENDIX C – SUMMARY OF PLAN PROVISIONS

This appendix provides a summary of the Plan provisions. Where the Plan, as determined by the State Code and the Plan Rules and Regulations, and this summary differ, the Plan governs.

1. Membership

The Plan covers full-time and regular part-time employees of the State of Delaware, which includes:

- State Department of Public Education,
- School Districts' part of the State School System (the membership includes 19 school districts),
- Delaware Department of Finance, State Lottery Office,
- Delaware Department of Transportation,
- Delaware Solid Waste Authority (1986),
- Delaware State University,
- Delaware Technical & Community College,
- University of Delaware (excluding most faculty and designated professional staff), and
- State Agencies supported wholly or in part by federal funds granted to the State.

There are two groups that have slightly different benefit structures within the Plan: Elected Officials (EO) and Correctional Officers/Specified Peace Officers (CO/SPO). Where the benefits for these groups vary from the remainder of the members covered in this plan, this is noted in the remainder of this summary.

2. Member Contributions

Pre-2012 hires: 3% of compensation in excess of \$6,000 per annum

Post-2011 hires: 5% of compensation in excess of \$6,000 per annum

9-1-1 Operators pay an additional 2% of compensation in excess of \$6,000 per annum.

CO/SPO members pay 7% of all compensation.

Interest is credited at the rate of 5% per year. Member contributions are made through an "employer pick-up" arrangement that results in deferral of taxes on the contributions.

3. Credited Service

All service as a member plus certain claimed and purchased service.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
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APPENDIX C – SUMMARY OF PLAN PROVISIONS

4. Final Average Compensation

Final average compensation (FAC) is the average of any 36 months comprised of three periods of 12 consecutive months (or shorter period of total service) of compensation paid to the member, including salary, wages, and fees, plus overtime payments and special payments for extra duty. Overtime payments are excluded for Post-2011 hires.

5. Normal Retirement

Eligibility: Pre-2012 hires: (i) age 62 with five years of credited service, or (ii) age 60 with 15 years of credited service, or (iii) any age with 30 years of credited service

Post-2011 hires: (i) age 65 with 10 years of credited service, or (ii) age 60 with 20 years of credited service, or (iii) any age with 30 years of credited service

EO Pre-2012 hires: (i) age 60 with five years of credited service or (ii) age 55 with 10 years of credited service

EO Post-2011 hires: (i) age 65 with 10 years of credited service, or (ii) age 60 with 20 years of credited service

CO/SPO and 9-1-1 operators Pre-2012 hires: (i) age 62 with five years of credited service, or (ii) age 60 with 15 years of credited service, or (iii) any age with 25 years of credited service

CO/SPO and 9-1-1 operators Post-2011 hires: (i) age 65 with 10 years of credited service, or (ii) age 60 with 20 years of credited service, or (iii) any age with 25 years of credited service

Benefit: 2.0% of final average compensation multiplied by years of service prior to January 1, 1997 plus 1.85% of final average compensation multiplied by years of service after January 1, 1997.

CO/SPO members covered by HB207, SB50, HB363, HA1, HB41, HB43, and HB80 receive a benefit of 2.45% of final average compensation in lieu of the 1.85% multiplier for years of service greater than 25. For service earned on or after January 1, 2022, the multiplier is increased to 2.50% for years of service up to 20 years, plus 3.50% for years above 20 years.

9-1-1 operators covered by HB179 receive a benefit of 2.45% of final average compensation in lieu of the 1.85% multiplier for years of service greater than 25.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
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APPENDIX C – SUMMARY OF PLAN PROVISIONS

Certain EO members additionally have a minimum benefit equal to the member's years of service as an elected member of the General Assembly times the highest rate of payment being paid to any retired member of the General Assembly, with that rate computed by dividing the retired member's monthly pension by the member's years of service as an elected member of the General Assembly.

6. Early Retirement

Eligibility: (i) age 55 with 15 years of credited service or (ii) any age with 25 years of credited service

Benefit: Normal retirement benefit calculated using final average compensation and service at early retirement, and reduced by 0.2% (by 0.4% if post-2011 hire) for each month which retirement age precedes the earlier of age 60 or the attainment of 30 years of service.

CO/SPO members covered by HB207 and SB50 receive an early retirement benefit with no reduction if they have at least 25 years of State service, including at least 20 years as a Correctional Officer.

CO/SPO members covered by HB363, HA1, HB41, HB43, and HB179 receive an early retirement benefit with no reduction for retirements on or after January 1, 2019 if they have at least 25 years of State service, including at least 20 years as a Correctional Officer. Delaware State Police Drug Diversion Unit agents were included as part of HB 80 effective September 30, 2021.

CO/SPO members covered by HB179 receive an early retirement benefit with no reduction for retirements on or after January 1, 2019 if they have at least 25 years of service as a 9-1-1 operator.

EO members not eligible for early retirement

7. Disability Benefit

Eligibility: Pre-2012 hires: five years of credited service and eligible disability
Post-2011 hires: 10 years of credited service and eligible disability

Benefit: Normal retirement benefit calculated using service and salary at disability date

A member who opted into the Disability Insurance Program will not receive a benefit from this plan until they reach normal retirement eligibility. All members hired on or after January 1, 2006 are covered by the Disability Insurance Program and thus will not receive a benefit from this plan until they reach normal retirement eligibility.

**DELAWARE STATE EMPLOYEES' PENSION PLAN
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APPENDIX C – SUMMARY OF PLAN PROVISIONS

For EO members, the minimum benefit described in the normal retirement section also applies.

8. Survivor's Benefit

Eligibility: Five years of consecutive credited service.

Benefit: For eligible survivors of employees who die in active service: 75% of service pension the employee would have been eligible to receive at age 62, calculated using final average compensation and credited service accrued to the date of death and reduced by 3% for the form of payment. If the surviving spouse has not yet attained age 50, the benefit will be actuarially reduced for each month he or she is under 50. However, this actuarial reduction will not apply for any period in which the survivor has a dependent child.

Eligible survivors include: (1) spouse (legally married/civil union), or (2) child or children under 18, between 18 and 22 and attending school on a full-time basis, or over 18 and permanently disabled before 18, or (3) dependent parent or parents. If no eligible survivors, accumulated contributions with interest over aggregate pension payments are payable to the beneficiary.

9. Burial Benefit

\$7,000 lump sum, paid at death after disability or service retirement of a member.

10. Vesting

Eligibility: Pre-2012 hires: Employees who separate from service with at least five years of service

Post-2011 hires: Employees who separate from service with at least 10 years of service

Benefit: Accrued normal retirement benefit, payable at age 62 for Pre-2012 hires and age 65 for Post-2011 hires. In lieu of a pension, a member may receive a refund of accumulated contributions with interest. Upon application for a refund of contributions, a member's vested right to a monthly benefit shall be forfeited.

11. Withdrawal of Employee Contributions

Eligibility: Terminated service

Benefit: Accumulated employee contributions with interest

**DELAWARE STATE EMPLOYEES' PENSION PLAN
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APPENDIX C – SUMMARY OF PLAN PROVISIONS

12. Form of Payment

The normal form of payment is a 50% joint and survivor annuity.

As an alternative to the normal form, a member may elect one of the following optional forms of payment upon service retirement or disability:

- 66 2/3% joint and survivor form with a 2% reduction in benefits,
- 75% joint and survivor form with a 3% reduction in benefits, or
- 100% joint and survivor form with a 6% reduction in benefits.

The 66 2/3% and 100% options are only available for retirement on or after January 1, 2015.

13. Cost-of-Living Adjustment

Cost-of-living adjustments are made only on an ad hoc basis.

14. Changes Since Last Valuation

Senate Bill 136 updated the retirement benefit for Elected Officials to exclude the post-retirement increase based on the General Assembly highest rate for members elected on or after February 28, 2025.



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