

MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM

Minutes

PLD Advisory Committee
Regular Meeting
July 30, 2024

MainePERS
Fort Point Conference Room
1:00 p.m.

The PLD Advisory Committee met at 1:00 p.m. on Tuesday, July 30, 2024 at MainePERS. Dr. Rebecca M. Wyke, Chief Executive Officer, presided.

Members present: John Braccioldieta, Maine Education Association; Steve Butterfield, Maine Service Employees Association; Rick Cailler, Professional Firefighters of Maine; Richard Cromwell, Maine Municipal Association; Ed Marzano, Teamsters (remotely); Brendan O'Connell, Maine Municipal Association (remotely); Deborah Roberts, Maine School Management Association (remotely); Dick Thompson (Governor's Designee); Sophia Wilson, Maine Municipal Association (remotely); Members absent: Chris Downing, Maine School Management Association; John Nuttall, AFSCME Counsel 93. Dr. Rebecca M. Wyke, MainePERS. The Committee was joined by: Nanette Ardry, Associate General Counsel; Stacey Beckim, Survivor Services Business Leader; Michael Colleran, Chief Operating Officer and General Counsel; Deanna Doyle, PLD Plan Administrator; Chip Gavin, Chief Services Officer; Mara McGowen, Assistant Director of Member Services; Kathy Morin, Director of Actuarial & Legislative Affairs; Mary Rodimon, Paralegal (remotely); Fiona Liston, Cheiron (remotely); Ryan Benitez, Cheiron (remotely); Greg Reardon, Cheiron (remotely); Bonnie Rightnour, Cheiron (remotely); Betsy Stivers, Assistant Attorney General (remotely).

MINUTES

Dr. Wyke welcomed new committee members Richard Cromwell and Dick Thompson. Roll call was then taken to include introductions. The Committee then unanimously approved the minutes of April 30, 2024.

LEGISLATIVE & RULEMAKING UPDATE

Mike Colleran and Nannette Ardry summarized the current rulemaking in process and those that will be in effect July 31, 2024.

CEO UPDATE

Dr. Wyke updated the committee on the new Pension Administration System (PAS), noting the request for proposals closed on June 14 and that six bidders had submitted proposals.

Member Satisfaction Survey Results

Dr. Wyke discussed the results of the third survey sent to active members and retirees. There were more respondents this time, and results were similar to the prior survey. Cybersecurity is still a concern that is being addressed in System Newsletters. Utilization of the Member Portal continues to grow. Information regarding the Portal is included in System Newsletters, typically resulting in a surge in registrants.

UPCOMING VALUATION/RATE SETTING

Kathy Morin introduced Fiona Liston, Bonnie Rightnour, and Greg Reardon from Cheiron who gave a presentation to the Committee, including a historical review of the PLD Consolidated Plan, an overview of the upcoming valuation work and the rate setting process, and a history of recent COLAs paid to retirees and the impacts on plan funding.

2024 COLA

Kathy Morin detailed what the 2024 COLA is expected to be based on the CPI-U of 3% that was effective June 30th, noting that the Board will take action on August 8 to adopt a 2.50% COLA for payout in September to eligible PLD retirees.

GROUP LIFE INSURANCE

GLI Overview

Stacey Beckim gave an overview of the GLI program and the types of coverage MainePERS offers. Mara McGowen then presented GLI activity and noted the competitive procurement process conducted last year with the Hartford being selected. The Hartford provided an extension of rates and increases in service, including document collection efforts and assistance tracking down beneficiaries. They also provide an online claim filing that allows a quicker turn around for beneficiaries.

GLI Premium Study Results

Ryan Benitez from Cheiron presented the results of the 2024 GLI Premium Study. He provided a benefits overview and discussed how premiums are calculated. An increase in premiums was previously adopted to be effective in fiscal year 2026. Ryan presented a summary of recommendations, including an additional increase in the premium to \$0.25 bi-weekly per \$1,000 of coverage effective in fiscal year 2028. The next premium study is recommended for 2026, the results of which will establish required premiums beyond fiscal year 2028. A motion was made by Steve Butterfield to accept Cheiron's recommendations to increase premiums for 2028. The motion was seconded by Rick Cailler, and voted unanimously in favor by all members present.

ADMINISTRATIVE

Current PLD Activity Report.

Deanna Doyle reported that the third annual open enrollment starts soon. There will be an online information session for employers on how to administer open enrollment as well as a session for employees considering joining the Plan. She noted that interest in making changes remains high with one large employer considering withdrawal.

PLD Activity Trend Report.

Deanna stated the trend report remains steady and is leveling off.

Adjournment

Dr. Wyke ended the meeting with a Motion to adjourn. The motion was seconded, and the Committee adjourned at 2:51 p.m.

<hr/>	<hr/>
Date Approved	Dr. Rebecca M. Wyke, Chief Executive Officer

MEMORANDUM

Date: October 29, 2024

To: PLD Advisory Committee Members

From: Michael J. Colleran, Chief Operating Officer and General Counsel
Kathy Morin, Director, Actuarial and Legislative Affairs

Re: Rulemaking Update

Payroll Reporting

We reported on this rulemaking at the last two meetings. The Board of Trustees at the September meeting provisionally approved repeal and replacement of Rule Chapter 201, which governs payroll reporting by employers. The replacement rule would set expectations for payroll reporting, submission of contributions, and payment of Group Life Insurance premiums and provide for late fees and interest. In assessing any late fees or interest, MainePERS would consider any extenuating circumstances and whether the employer was working in good faith to become compliant. Any late fees would be credited toward any interest required. A copy of the provisionally adopted rule is attached. It is subject to review by the Legislature before it becomes effective.

.

94-411 MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM

Chapter 201: EMPLOYER REPORTING AND PAYMENTS

SUMMARY: This Chapter sets out requirements regarding employer reporting and payment of contributions and premiums.

SECTION 1. REPORTING AND PAYMENT REQUIREMENTS

1. **Payroll Reporting.** Every employer reporting unit is required to submit a complete and accurate payroll report to the Maine Public Employees Retirement System (“MainePERS”) within 15 days after the end of each month (“the Due Date”). The report shall contain data relating to all payrolls paid during the calendar month immediately preceding the Due Date and shall be in the format prescribed by the Chief Executive Officer.
2. **Submission of Contributions and Insurance Premiums.** Every employer reporting unit is required by the Due Date to electronically submit in the manner prescribed by the Chief Executive Officer: (1) the employer and employee contributions for the time period covered by the report; and (2) the Group Life Insurance (“GLI”) premiums as invoiced by MainePERS.

SECTION 2. LATE FEES AND INTEREST

1. **Late Fees.** An employer reporting unit that has not submitted a complete and accurate payroll report as determined by the Chief Executive Officer within 30 days after the Due Date may be charged a late fee of \$100 per day calculated from the Due Date until a complete and accurate report has been received by MainePERS. In deciding whether to impose a late fee, MainePERS should consider any extenuating circumstances and the extent to which the employer is making good faith efforts to comply.
2. **Interest.** An employer reporting unit that has failed to pay any employer and employee contributions and GLI premiums required to be paid pursuant to section 1, subsection 2 within 30 days after the Due Date, regardless of whether a complete and accurate payroll report has been submitted, may be charged interest on the amount owed at the then-current actuarial discount rate, compounded monthly, from the Due Date until the amount owed is paid in full. In deciding whether to charge interest, MainePERS should consider any extenuating circumstances and the extent to which the employer is making good faith efforts to comply. Any late fees paid pursuant to subsection 1 must be used to offset any interest obligation arising out of the same payroll period to reduce the employer reporting unit’s overall obligation.

STATUTORY AUTHORITY: 3 M.R.S. § 731(2); 4 M.R.S. § 1231(2); 5 M.R.S. §§ 17103(4), 17203(1), 18053, 18653

MAINEPERS

PARTICIPATING LOCAL DISTRICT ADVISORY COMMITTEE MEMORANDUM

TO: PLD ADVISORY COMMITTEE MEMBERS
FROM: DR. REBECCA M. WYKE, CEO
SUBJECT: CEO UPDATE
DATE: OCTOBER 15, 2024

Strategic Plan Update & Key Performance and Risk Measures

The 5-Year Strategic Plan was adopted by the Board of Trustees in August 2022. At the meeting I will present an update on the second year of the Plan to the Committee. Attached is a memorandum to the Board entitled 5-Year Strategic Plan Update – Year II, along with updated key performance and risk measures.

Pension Administration System

The PLD Advisory Committee will receive a brief update on the procurement of a new pension administration system.

Disability Retirement Experience Survey Results

MainePERS completed its third disability retirement experience survey in July. The survey results are included in the Committee's materials.

PLD Member Education Plan

Chief Services Officer Chip Gavin will provide an update on the education plan for PLD members.

.

MAINEPERS

BOARD OF TRUSTEES MEMORANDUM

TO: BOARD MEMBERS
FROM: DR. REBECCA M. WYKE, CEO
SUBJECT: 5-YEAR STRATEGIC PLAN UPDATE – YEAR II
DATE: OCTOBER 15, 2024

POLICY REFERENCE

[Board Policy 4.5 – Board/Staff Relations](#)
[Board Policy 4.6 – Communications and Support to the Board](#)

In August of 2022, the Board of Trustees adopted a 5-Year Strategic Plan. Much work has been done over the past two years to implement and operationalize the Plan. The focus of this report is to update the Board on the progress made in the second year of the Plan.

This work advanced each of the six goals under the plan:

- I. Preservation of the Trust Fund
- II. Stability of the Contribution Rates
- III. Security and Integrity of our Information Systems
- IV. Cultivation of a Member-centric Organization
- V. Development of Stakeholder Relations
- VI. Foster an Engaged Workforce that Advances the Organization's Mission

The four legislatively directed objectives in the Strategic Plan were substantially completed in the first year of the plan, including: a study on potential public plan options that include social security (Resolves 2021, c. 66 & 72), responding to the divestment legislation (PL 2021, c. 231 & 234), expanding the availability of defined contribution plans to teachers (PL 2021, c. 548), and exploring mandatory long-term disability insurance coverage (PL 2021, c. 277).

In relation to ***Goal I. Preservation of the Trust Fund***, a Board Work Plan for 2024 was adopted by the Board in November 2023. The Plan maps the Board's responsibilities as outlined in Maine Law and Board Policy to the monthly meeting agenda and includes a frequency schedule to guide the annual update of the Plan. The Trustee Charter, which was adopted by the Board in March 2023, was reviewed in November 2023. The Charter sets forth the Board's principles, duties, and oversight responsibilities for the Governance of MainePERS and its programs. Additionally the Board reviewed and updated (as needed) more than a third of its policies in the Board Governance Manual over the past year, consistent with its three-year review cycle.

Transparency efforts regarding Board operations continued and all public meeting materials were posted on the MainePERS website in advance of meetings, in addition to agendas and minutes. These materials are archived on the website so members of the public may easily review prior meeting materials. MainePERS also posts materials for the Finance and Audit Committee and the PLD Advisory Committee online. Additionally, all Board and Committee meetings are available live via an online webinar platform.

The Board conducted its annual self-evaluation in August 2023. As part of this process the Board received its annual education on best practices in Board governance. Following receipt of the Board's input on educational needs, an Education Plan was developed and presented to the Board in September 2023. The Plan includes educational presentations during Board Meetings, trustee seminars conducted by national associations, and materials for self-study. As part of this plan fiduciary education was offered by the Board's governance consultant in April 2024, outlining the legal framework of the Trustee's fiduciary duties and focusing on three case studies. Quarterly investment and annual actuarial practices education continued. The Board also received "mission moments" -- introducing the Board to various programs under MainePERS -- on a variety of topics, including: the pension administration system project; the disability retirement compassionate allowance list; the appeals program; the legislative process; investment team activities; state-sponsored plans and sub-plans; and group life insurance.

Two new Trustees were welcomed to the Board in February 2024. Onboarding for the Trustee from MEA was completed last fall and onboarding for the Trustee from MSEA occurred in the first part of this year. These orientations were delivered by senior management over several meetings, and the topics covered included the governance framework, fiduciary duties, actuarial valuation, rate-setting, cost-of-living increases, finances, investments, member services and employer services.

Through its Finance and Audit Committee the Board reviewed the 2023 Annual Comprehensive Financial Report prior to its acceptance by the Board, with MainePERS receiving a "clean" audit for the year from its external auditor, Berry Dunn. For the twentieth year in a row MainePERS was awarded a certificate of achievement for excellence in reporting from the Government Finance Officers Association. The FY 2025 Annual Administrative Operations and Investment Operations Budgets were reviewed by the Finance and Audit Committee prior to their adoption by the Board. The budgets were developed to support ongoing operational needs as well as the 5-Year Strategic Plan, in particular the development of the new pension administration system. FY 2024 ended within the overall budgets as approved by the Board.

The Finance and Audit Committee also oversaw the outsourced internal audit program. Audits were completed for cash receipts and disbursements, facilities policies and physical plant security, and member statement and estimate processes. The Committee reviewed the 2024-25 internal audit plan and the updated enterprise risk management plan. Additionally, the Committee reviewed the progress on employer account reconciliations, now at 85%, as well as status updates on employer reporting issues.

With assistance from the Board's general investment consultant, Cambridge Associates, the investment team reviewed the long-term capital market assumptions and the strategic asset allocation with the Board in January 2024. And, an internal working group was formed to explore strategies for pre and post-2028 system liabilities planning.

Staff reviewed compliance with the divestment legislation and related investment policy statement provisions, updated the status of fossil fuel investments, and presented the second

annual Divestment Report to the Board in December 2023. Staff also met with the Joint Standing Committee on Labor and Housing to discuss the divestment report for FY 2023, and separately engaged with the divestment advocates on several occasions. In response to a request by the advocates, staff researched an investment decision implemented by CalSTRS to invest a portion of their public equity allocation into a low carbon emission index and reported their findings to the Board in July and September of 2024.

From an investment perspective, inflation remained muted during FY 2024, increasing the likelihood that the Federal Reserve would begin to reduce interest rates. This prospect combined with excitement over artificial intelligence to drive stock markets to record highs. Investment returns reported by the System's custodian for the 1, 5, and 10-year periods ending 6/30/24 were 8.0%, 8.5%, and 7.5%. The preliminary trust fund balance at FY 2024 year end was \$19.7 billion, and for the first time the System's investments surpassed \$20 billion in July of 2024. For the sixteenth consecutive year, MainePERS received the Public Pension Coordinating Council's Recognition Awarded for Funding, in recognition of adherence to best practices in maintaining plan funding.

Under **Goal II – Stability of the Contribution Rates**, the Board reviewed and approved the FY 2023 actuarial valuations in October 2023. On an actuarial basis for FY 2023, the State Employee and Teacher Plan had an investment return of 7.15% (market value of assets, 6.05%) and is 85% funded. The calculated employer contribution rate was stable at 20.53%. The Board also adopted the FY 2026 and FY 2027 composite employer contribution rates at 19.70% and 19.73%, respectively. The Legislative and Judicial Plans remain fully funded at 144.5% and 109.9%, respectively. In anticipation of the FY 2024 valuation, the Board also reviewed the economic assumptions in June 2024.

MainePERS administered the award of two cost-of-living adjustments for the State-sponsored Plans. The Consumer Price Index-Urban (CPI-U) for the twelve months ended June 30, 2023 was 3.0%. Pursuant to Maine law, the Board of Trustees awarded an annual cumulative COLA of 3% in September 2023. Additionally, the Legislature approved a one-time COLA of 3% that was awarded in November, 2023.

The Participating Local District (PLD) Advisory Committee reviewed the actuarial valuation approved by the Board for the PLD Consolidated Plan. On an actuarial basis for FY 2023, the Plan remained 91.2% funded. The calculated contribution rate was stable at 18.6%. Additionally, the employer/employee rates for the Participating Local District Consolidated Plan were recommended by the PLD Advisory Committee and established pursuant to the authority granted by the Board to the Chief Executive Officer. The aggregate rate for the PLD Consolidated Plan remains stable at 18.6% and for the first time the Committee voted to recommend that all sub-plans be assessed at the 58% employer and 42% employee risk allocation goal for the Plan. Additionally the Committee voted to further consolidate plan offerings by eliminating sub-plan 4N, as there were no employees enrolled in the plan.

MainePERS also administered the award of two COLA adjustments for the PLD Consolidated Plan. Pursuant to Maine law and rule, the Board of Trustees awarded an annual cumulative COLA of 2.5% in September 2023. The PLD Advisory Committee recommended and the Board of Trustees authorized the awarding of an additional 0.5% one-time COLA, which was processed in February 2024.

Employers and other stakeholders were informed of funding trends through scheduled meetings with representatives of State government and the PLD Advisory Committee, as well as other communications. The Legislative committees of jurisdiction were also informed through the Annual Report to the Legislature in March 2024.

For **Goal III – Security and Integrity of our Information Systems**, staff have been focused on procuring a new pension administration system (PAS). MainePERS' current system is at end of life and in need of replacement. Planning for this transition began in fall 2022. Supported by our PAS procurement consultant, Linea, a Request for Proposals (RFP) was developed and issued in May 2024 for a new cloud-based PAS system and finalists are being reviewed with a contract award anticipated in early October 2024. An organizational change management firm was hired to support project leadership in engaging the staff throughout the transition and a PAS project manager has also been hired. The additional support staff approved by the Board in the FY 2025 budget are in the process of being hired.

Staff also worked with the current PAS vendor, Vitech, to make forty-four updates and enhancements to the system, which will be needed until the new system is designed and implemented. In preparation for the conversion of our data to the new system, staff is undertaking a data cleansing project and is part-way through seventy-two items identified for correction.

We successfully completed the final phase of an audit of our compliance with the National Institute of Standards and Technology (NIST) cybersecurity framework and nearly a dozen cybersecurity tests, including internal and external penetration testing. Staff also received monthly cybersecurity training to educate and guard against various threats. Additionally, we were able to renew our cyber-insurance policy for the same coverage at a reduced premium.

Our outdated tape back-up environment was modernized with implementation of the ExaGrid immutable replication solution to bolster data security and seamless business continuity. The email infrastructure was migrated to cloud-based Microsoft Office 365 and we replaced our legacy intranet with SharePoint, allowing for more efficient search and retrieval of information.

Development of a comprehensive member education, communications, and service model that supports planning for retirement security is a key strategic objective under **Goal IV – Cultivation of a Member-centric Organization**. This past year MainePERS conducted 40 webinars that were attended by more than 800 members. This included the launch of a new PLD member webinar, which completes the webinar series for new and mid-career members, as well as a new PLD special plan member webinar. The benefit estimator, introduced over a year ago, was updated to improve modeling across various plans. To date, members have used the benefit estimator to generate more than 21,000 scenarios to support their retirement planning. Additionally, a series of upgrades were made to the phone system menu this past summer that have greatly enhanced answer rates and reduced hold times. For the month of August, 96% of calls to the main line were answered with an average answer time of 41 seconds.

Staff continue to monitor key workflow metrics on a weekly basis and have eliminated many of the backlogs in existence when the Strategic Plan was developed. In the Year I update for the Plan we reported the queue of service retirement estimates, necessary for placing a member on the payroll with a preliminary benefit upon retirement, were reduced from 1,011 at the end of March 2023 to 264 at the end of July 2023. We have been able to maintain that progress and that queue currently stands at 152 as of mid-September 2024. Last year we also reported that

we were able to eliminate the backlogs in member requests for benefit verifications, beneficiary elections, and member account statements and processing times for these requests continue to be current.

The most significant remaining backlog is in moving retired members from a preliminary to a final benefit. The roots of this backlog are complex and the solution lies in streamlined processes, additional staffing, and enhanced technology. The staff conducted a process review over the past year and in August began implementing several process changes to better manage this work. The Board also approved additional staff positions to keep pace with our expanding membership rolls, while plans to procure a new pension administration system are well underway.

Other process improvements include a new, no cost increase contract with our group life insurance vendor that improves efficiency by assigning the vendor some of the functions previously performed by staff. Additionally, we've reorganized this work internally to move employer account reconciliations to the employer reporting team, providing a single point of contact for employers and freeing up member services staff to focus on other work.

In Year I we reported that MainePERS conducted an extensive review of the disability retirement program following the implementation of Public Law 2021, c. 277. Both the law and the review focused on the application process for disability retirement. In January 2023 MainePERS began using the Social Security Administration's compassionate allowance list to identify conditions appropriate for expedited processing when feasible. Although the standards for a disability benefit differ between SSA and MainePERS, the compassionate allowance list identifies diseases and other medical conditions that can expedite application processing for certain individuals. Our most recent survey of members who have completed the disability application process since the prior survey was conducted in July 2024. Ninety-one percent (91%) of those responding were satisfied or very satisfied that the process was fair and 94% agreed or strongly agreed that they were treated with respect and had their questions responded to in a timely manner.

Over the past year staff focused on the processes required for those already receiving a disability retirement benefit and developed proposed changes that were adopted by the Board. These changes provide guidance on the definition of "earnings" and streamlined the annual process for applying compensation limitations and offsets to disability retirement benefits. Taken together, the changes serve to reduce the burden of compliance for members receiving a disability retirement benefit, while also reducing the amount of personal information collected. Additionally, staff worked to restructure and revise program information for members to provide greater clarity as well as discrete guidance for those applying for a disability retirement benefit and for those receiving a disability retirement benefit.

Perhaps one of the most significant achievements highlighted in the Year I update on the Strategic Plan was the development and launch of the member portal for which a phased rollout began in fall 2023. To date over 22,500 members have registered for the portal. Members use the portal to access forms, and review member statements and tax information. Members have also used the portal to update their own demographic information with nearly 2,500 transactions to date. As part of the member portal rollout, MainePERS conducted a campaign to update member demographic information to support the use of multi-factor authentication in registering for the portal. Over 47,000 active and retired members without a telephone number and/or email address on file were contacted to update their information and more than 18,000 members complied.

MainePERS conducted its most recent annual member survey for active and retired members in April 2024. Ninety-two percent (92%) of retirees and 51% of active members indicated they were “satisfied” or “very satisfied” with MainePERS. Over 90% of retirees and 61% of active members stated they “agree” or “strongly agree” that MainePERS acts with integrity. And, 80% of retirees and 43% of active members “agree” or “strongly agree” that MainePERS staff are knowledgeable.

Under **Goal V – Development of Stakeholder Relations**, MainePERS staff have continued to focus on improving stakeholder relations with our 500 plus employers. Improvements in employer support included the addition of a second employer training specialist, continued development of the employer training program and materials, updated documentation including employer information on our website, and more frequent email communications. As noted under Goal I, progress on employer account reconciliations continues, currently at 85% versus 73% last year and 51% the year before. We are also partnering with one of the large payroll application vendors to assist in developing reporting tools that will be used by their clients (our employers) and hope to expand to additional vendor partnerships as we work to develop the new pension administration system. Last year, when we reported on the employer satisfaction survey, seventy-nine percent (79%) of employers were “satisfied” or “very satisfied” with MainePERS. The next employer survey will be this October.

MainePERS worked closely with the Participating Local District (PLD) Advisory Committee, whose membership includes five employer representatives and five employee representatives. The Committee reviewed information on the PLD Consolidated Plan, developed contribution rates, and implemented two cost-of-living increases over the past year. Additionally, onboarding orientations were provided to several new members of the Committee.

MainePERS also worked closely with member organizations representing our active and retired members. Regular articles were drafted by MainePERS for the newsletters of the Maine Association of Retirees and MEA-Retired. I was also the keynote speaker for the Maine Association of Retirees Annual Meeting in May 2024, and spoke at the MEA-Retired Annual Meeting that same month.

In the last legislative session, MainePERS reported to the Labor and Housing Committee on divestment, ESG, the Social Security windfall elimination provision (WEP) and government pension offset (GPO), disability retirement, and the member portal, as well as providing our annual report on operations. We also worked closely and collaboratively with members of the Committee and other stakeholders on legislation impacting MainePERS members. Senior leaders met with legislators, members of the Governor’s administration, labor unions, and other stakeholders on request to discuss issues related to services, legislation and investments. Stakeholders were also kept informed via email on important issues.

At the time the Strategic Plan was being developed, a sixth Goal was recommended by staff and adopted by the Board of Trustees, **Goal VI – Foster an Engaged Workforce that Advances the Organization’s Mission**. The Organizational Values Steering Committee was chartered in fall 2022 to guide the work of institutionalizing the organizational values developed by the staff as part of the strategic planning process. The Steering Committee is staff-led and promotes interdepartmental communication and collaboration as we work to bring all MainePERS staff into one cohesive team. This past year the Committee focused on three areas for improvement: employee-facing system policies, organizational communication, and collaboration on system-wide projects. The Committee’s sub-committee on policies reviewed

33 employee-facing policies for alignment with the organizational values. Proposed changes were then reviewed by senior management and supervisors, and were largely adopted. The communications sub-committee held a series of eight focus groups with staff and reported their findings to senior management and supervisors. Senior management, in collaboration with supervisors, developed a consensus response to all staff that included commitments related to the findings. Another sub-committee is focused on organizational collaboration for system-wide projects, such as the PAS system, and is in the process of developing its recommendations.

The staff-led Events Committee continues to plan social engagements and employee recognition events. The senior management team also organized and staffed the third annual cookout as a thank you to our employees for their work on behalf of our members. This past year we introduced a bi-monthly employee newsletter to keep everyone up to date on staff comings and goings, upcoming events, important reminders, and other items of interest. In addition, we have implemented monthly lunch and learn sessions, topics have included: MainePERS governance, the strategic plan, and organizational values; NextGen 529 plans; Social Security and the impacts of the WEP and GPO; the MaineStart program; an HR open house; and a variety of user application sessions hosted by our IT team.

In Year I we revamped the onboarding program for new staff to include education on MainePERS' governance, mission, vision, and strategic plan, which is led by senior managers. Members of the Organizational Values Steering Committee also participate by discussing the organizational values. Recently we expanded the program to include cross-departmental introductions as part of the onboarding process to promote communication and collaboration among departments.

A working group of staff, supervisors, and senior management reviewed the performance review process for bargaining unit employees and made recommendations to streamline the process and enhance employee participation. The performance review process now includes a voluntary self-evaluation for staff to reflect on their performance and highlight accomplishments. Work on diversity, equity and inclusion (DEI) continues with four of our staff completing a DEI certification course in the past year. Additionally, all staff are now receiving monthly DEI trainings through our online training academy.

Employee turnover was down in 2023 compared to 2022, 12.71% versus 21.63%. The most recent employee satisfaction survey was conducted in February 2024. The survey's response rate was 67%, of those responding 86% stated they "agree" or "strongly agree" they are satisfied with their job compared to 74% last year.

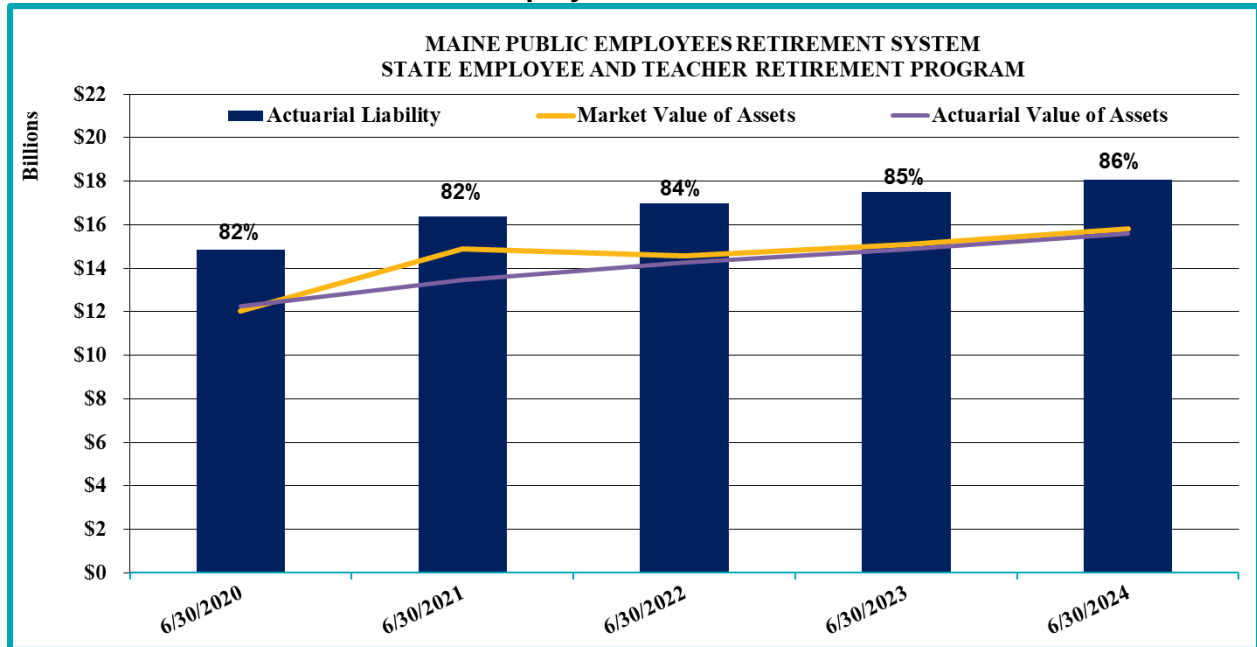
Conclusion

Over the past two years, much has been accomplished to move the 5-Year Strategic Plan adopted by the Trustees forward and the momentum is accelerating. The focus over the next three years will largely be on the development of the new pension administration system to ensure a successful implementation. On behalf of the staff at MainePERS, I am pleased to offer this update on the progress of the Plan and look forward to accomplishing even more in the year to come.

Key Performance and Risk Measures

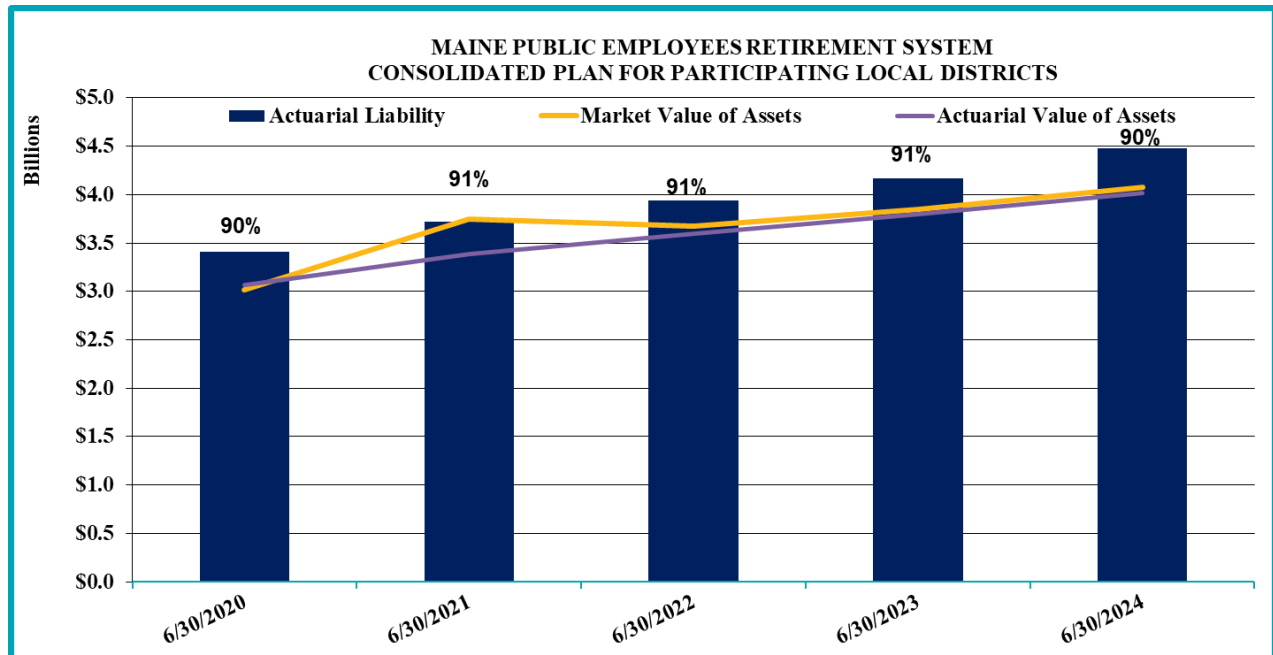
Funding Ratio, Actuarial Liability, and Market Value of Assets

State Employee and Teacher Plan



Fiduciary Net Position, reported here as market value of assets (total assets minus liabilities other than actuarial liabilities), on 6/30/2024 is \$15.8 billion. The funded ratio is based on the actuarial value of assets.

PLD Consolidated Plan



Fiduciary Net Position, reported here as market value of assets (total assets minus liabilities other than actuarial liabilities), on 6/30/24 is \$4.08 billion. The funded ratio is based on the actuarial value of assets.

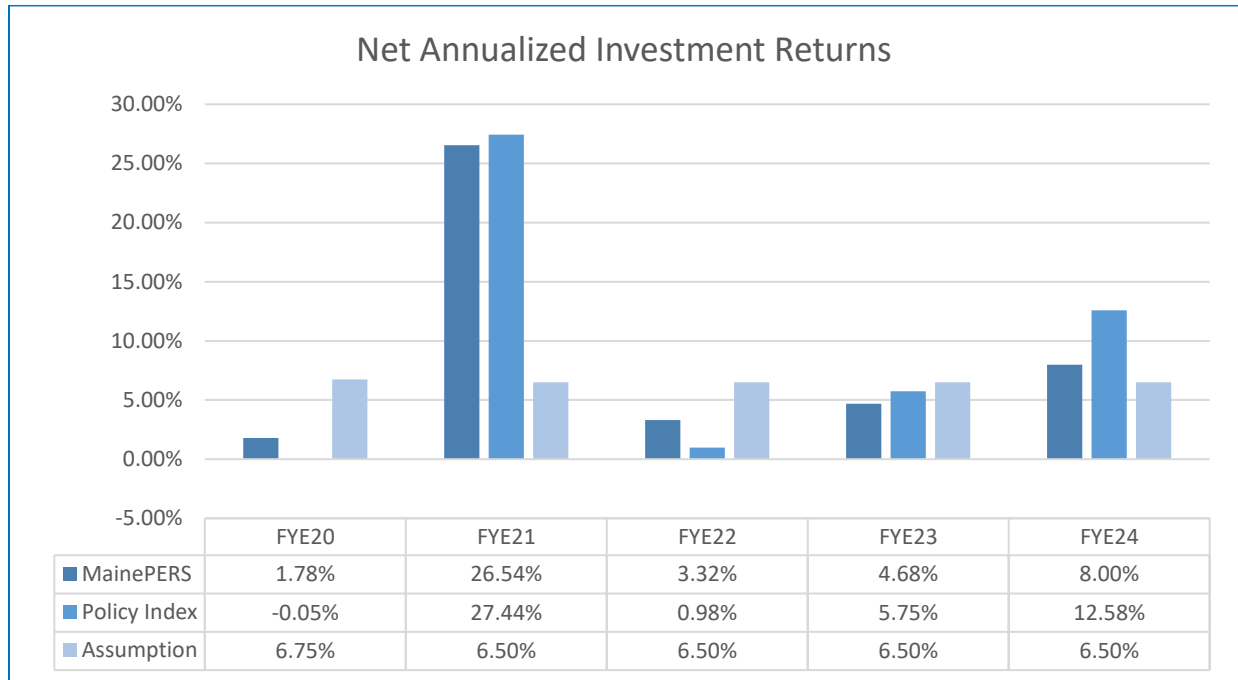
Legislative Plan: funded status is 149% and Fiduciary Net Position is \$17 million on 6/30/24.

Judicial Plan: funded status is 109% and Fiduciary Net Position is \$89 million on 6/30/24.

The two charts on this page cover key performance and risk measures I, V, and VI under the Strategic Plan.

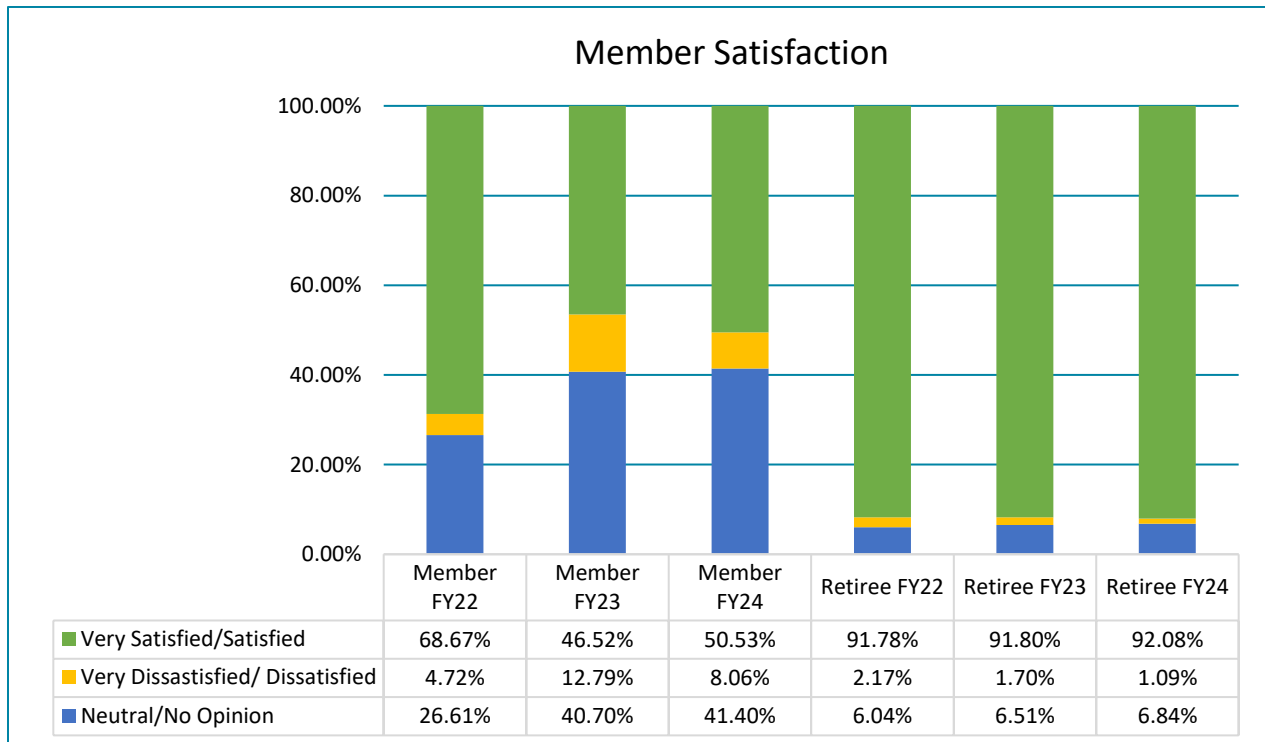
Key Performance and Risk Measures

Net Annualized Investment Returns



This chart covers key performance and risk measure II under the Strategic Plan.

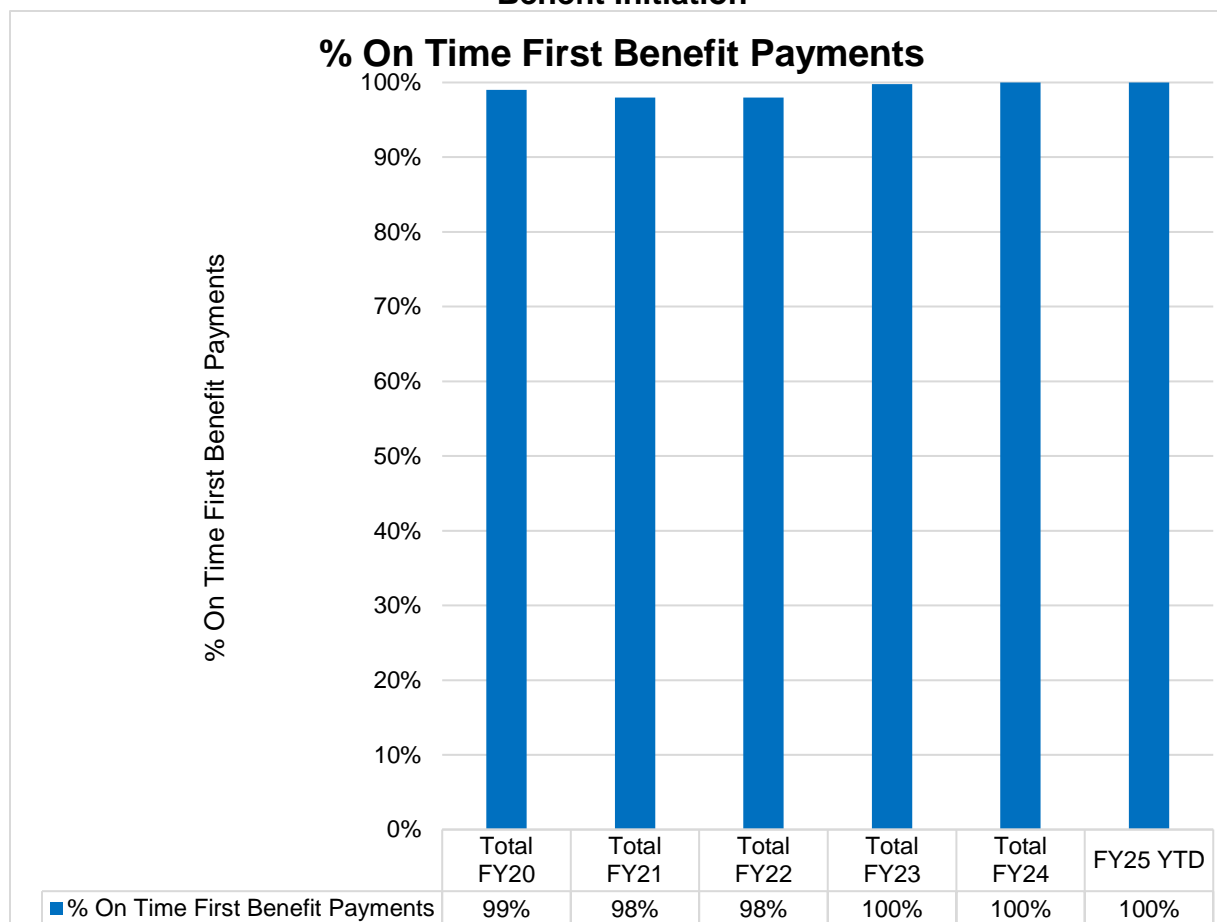
Overall Member Satisfaction



This chart covers key performance and risk measure IV under the Strategic Plan.

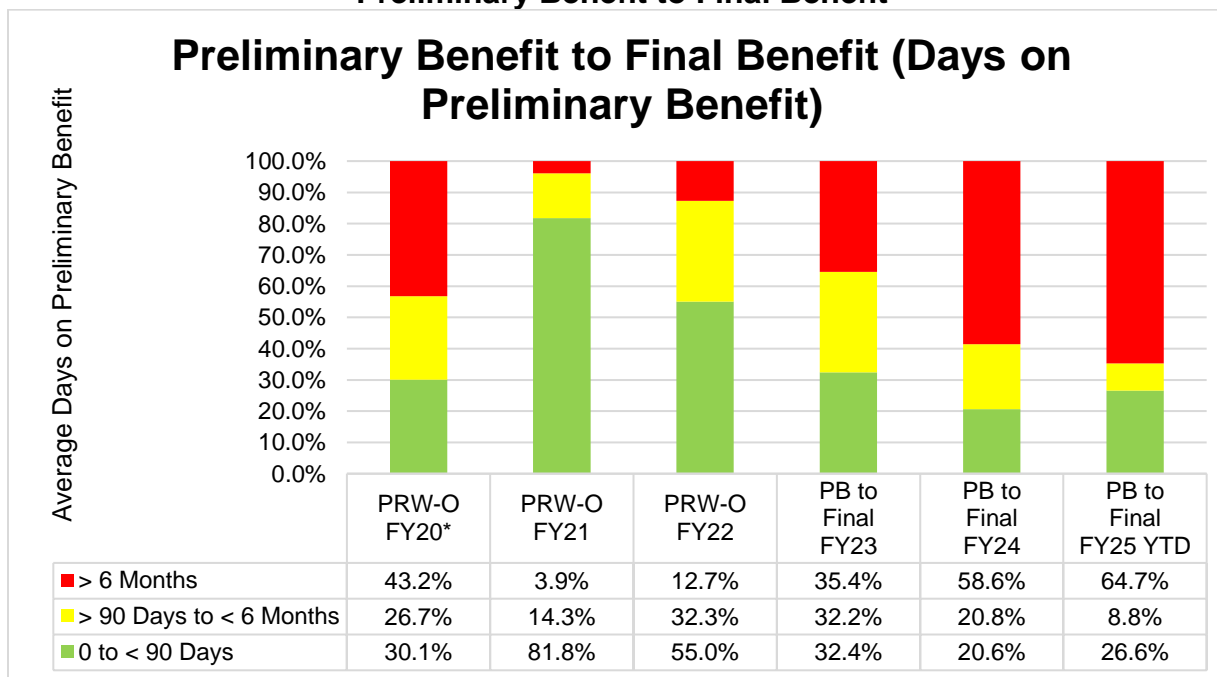
Key Performance and Risk Measures

Benefit Initiation



See Data Notes 1 & 2.

Preliminary Benefit to Final Benefit



*PRW-O FY20 is based on the last 6 months of the FY; back data not available. See Data Notes 3 & 4.

The two charts on this page cover key performance and risk measure III under the Strategic Plan.

Key Performance and Risk Measures

Data Notes

Benefit Initiation

NOTE 1: MainePERS issues a first retirement benefit payment disbursement the payroll following the date a retirement application is found to be complete (if complete after the payroll cut-off that first disbursement is made the following month and deemed to be on time). This metric is manually calculated.

NOTE 2: The percent of late first benefits includes all first payments falling outside the on-time timeline. These include instances with extenuating circumstances including but not limited to: returned first payment (member changed banks or gave incorrect routing/account information); deceased prior to first payment; members first payment date is retroactive due to disability process; member applied to receive payment after they were eligible and collected a retroactive payment; first payment date changed, and/or the application was refiled after initial submission.

Preliminary Benefit to Final Benefit

NOTE 3: MainePERS members upon retirement are initially and rapidly paid a preliminary benefit that is an estimate of the person's final benefit. The final benefit requires significant diligence to be completed under current MainePERS laws, rules, processes and tools. The graph above includes two measures of the timeliness of moving retirees from their Preliminary Benefit (PB) to their Final Benefit. Each metric essentially shows an annualized snapshot of how long individuals received preliminary benefits before beginning to receive their final benefit. The two measures are looking at essentially the same data but each metric has a slightly different starting point and/or a slightly different ending point for measuring the time period, depending on precisely what information is desired. In general, they paint the same overall picture. MainePERS seeks to have retirees on their final benefit by their 3rd benefit payment and seeks to avoid that transition from requiring longer than 6 months. We have transitioned this metric to include only the "PB to FINAL" metric for FY 23, FY 24 and FY 25 YTD but have included the historic Pension Retirement Workflow-Open (PRW-O) metric that was available for FY 20, FY 21 and FY 22 at the time the reporting was initiated.

NOTE 4: In detail, the metrics above are: 1) PRW-O measures from the point at which MainePERS opens a Pension Retirement Workflow to the point when it is closed (when the Final service retirement benefit amount was established); and, 2) the PB to Final metric shows the number of days since the first preliminary benefit was paid and for which preliminary benefits still are being paid. That last metric is one of several ways to measure Preliminary to Final benefit processing time.



MainePERS
PUBLIC EMPLOYEES RETIREMENT SYSTEM

Disability Retirement Experience Survey

Board of Trustees

August 8, 2024

Dr. Rebecca Wyke, CEO

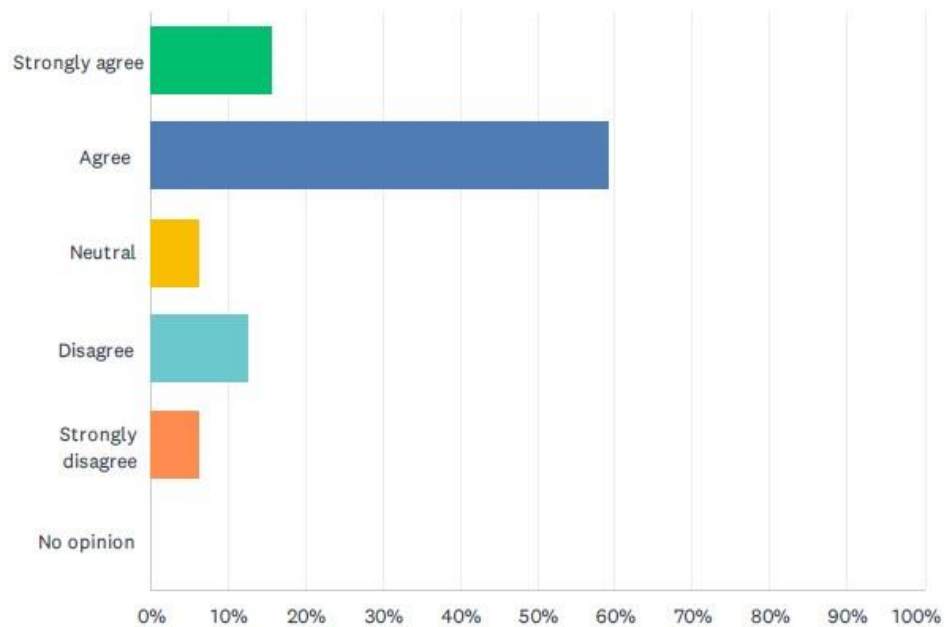
Disability Retirement Experience Survey

- ▶ Survey conducted July 11 - 24, 2024
- ▶ All members who had completed the application process since the last survey were invited to participate
- ▶ A total of 81 members met the criteria
- ▶ Of those 32 responded, 40% response rate

Disability Services Survey - 2024

Q1 The disability application and process is easy to understand and follow.

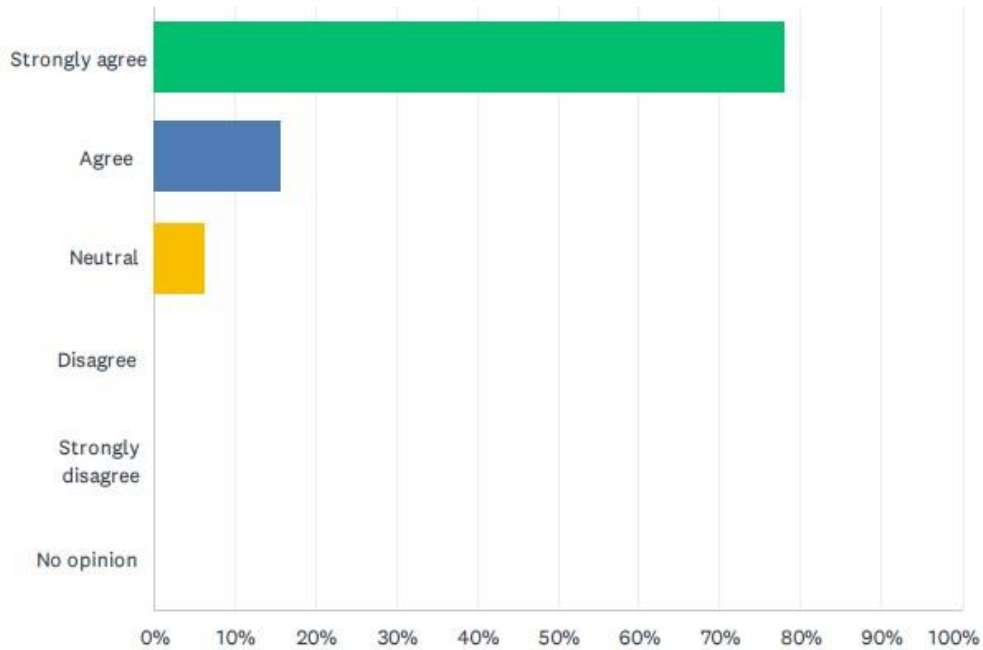
Answered: 32 Skipped: 0



Disability Services Survey - 2024

Q2 I was treated with respect by those handling my application.

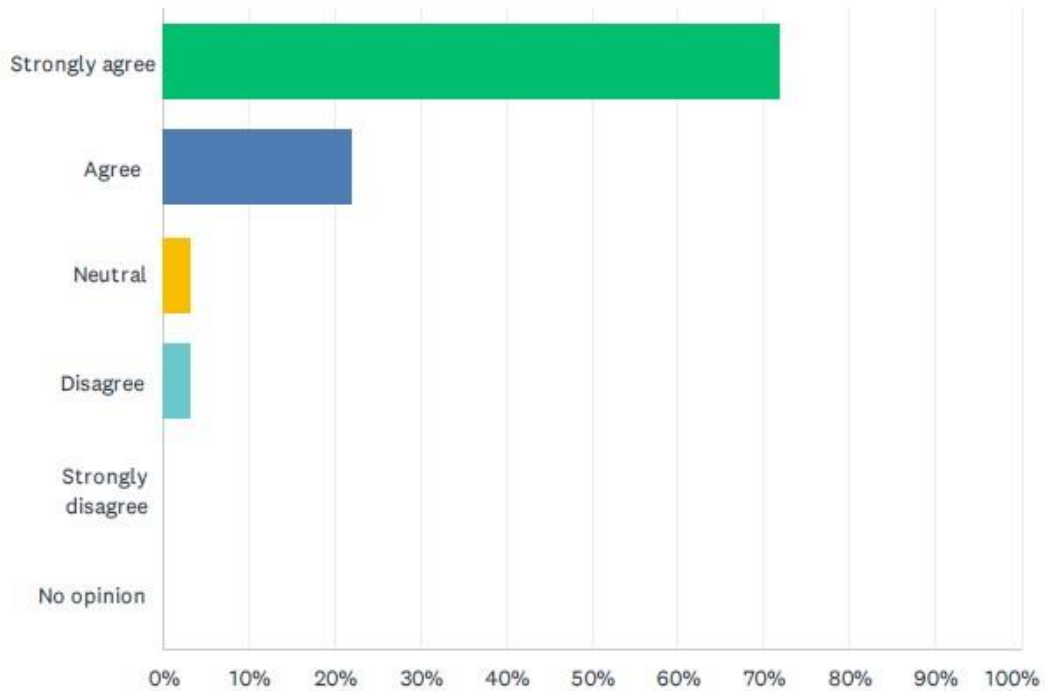
Answered: 32 Skipped: 0



Disability Services Survey - 2024

Q3 MainePERS responded to my questions in a timely manner.

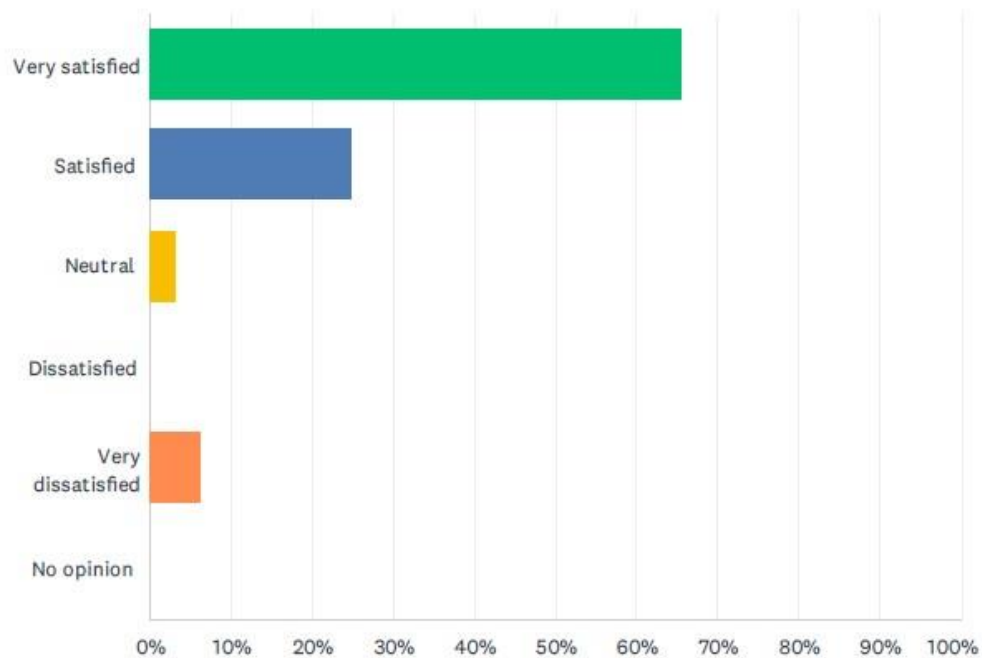
Answered: 32 Skipped: 0



Disability Services Survey - 2024

Q4 The Disability Services process was fairly conducted.

Answered: 32 Skipped: 0



Question 5 - Please feel welcome to provide any additional feedback regarding your experience with MainePERS Disability Services Unit.	
Open-Ended Response	
4	I was treated with great deal of respect. Staff were very helpful.
5	I didn't care for the 2 month pay back with out no checks at all it . should be taken out t in smaller increments.
8	Thank you
10	Other then confusion on my Life Insurance that I have paid since 1986, it got canceled even though I was told it wouldn't since I had Long Term Disability from the Hartford, their rep said it would continue, [Hartford Employee] was my rep. The reps I worked with in MainePERS were AWESOME to me since having a brain injury that were always patient and kind/
11	[Employee] was patient and a great help.
12	PERS, [Employee] was professional, knowledgeable, and compassionate. Changes in my health has/is very physically and emotionally challenging, [Employee] handled my hardships with grace, understanding and professionalism. She processed his paperwork in a timely manner and was exceptional at communicating during this whole process. I see her as an exceptional asset to your department. Sincerely, [Disability Retiree]
14	I found my representative to be extremely helpful and caring. The application process was easy to understand. Whenever I called the other representatives were very courteous and helped me get the information I needed.
15	I greatly appreciated the responsiveness of my PERS point of contact, [Employee]. He was kind and gentle in manner throughout a difficult process. I know that Disability Retiree's situation was somewhat unusual and I understand PERS must be sure that an applicant is eligible for the disability benefit before approving an application. My sister's disability has been clear to those of us around her, but gathering the information necessary to prove it was challenging and very stressful. That may simply be in the nature of the process of dealing with doctors' offices and medical record keepers. I want to express my gratitude to [Employee] and his colleagues at PERS for closely reviewing the materials I provided and arriving at an approval for [Disability Retiree's] application. This has made, and will continue to make, a huge difference in her life and those who love her.
17	I regard both the application process and the outcome as fair and reasonable.
18	Professional and attentive in my time of need.
19	I am very grateful to MainePERS
21	I was incredibly thankful for the help and support that I was given throughout this process. This was a very difficult step for me to take, but I was met with understanding and patience. I will be forever grateful.
23	some records i submitted were not considered , a lot of my records were not included , i've been told i can't do a lot of things " Due to a disability " but i'm not considered disabled but an alcoholic is ??? oh , and i can never use my diabetes to reapply at a later date so if i go blind , develop cardiac issue or any of the other things diabetes effects i'm screwed ! Thanks for nothing! i'll just become an alcoholic instead ! you guys suck

24	My Disability Specialist [Employee], through this entire process, which was personally a very anxious decision to initiate and work through, treated me with the utmost respect, answered any and all questions I had, kept me informed at every stage, made himself available to me for every phone call and discussion knowing of my own limited availability with my work requirements and schedule, treated me with courtesy, kindness, and professionalism leaving me feeling confident that the entire case was being handled properly and with the knowledge that whatever the final outcome, I was being heard and treated both fairly and respectfully. He was amazing to work with.
25	I still can't login to the new site, after a Captcha error. They have reset it twice I believe.
26	[Employee] was amazing! Kept in touch and guided us through everything with professionalism and great care. PERS was the only agency that we dealt with throughout this chaos that was kind, caring and very knowledgeable. Wonderful!
28	still waiting for final disbursement amount...
31	I found the staff to be very efficient, professional and respectful. They have always been patient with my questions and I appreciate their efforts.
32	I don't agree with the determination process as far as pre-existing conditions are concerned. Many appointments were canceled due to COVID no fault of mine. Now those appointments shed new light but still was denied. Determination was totally unfair. People were great, calls returned in a timely fashion, the outcome was the problem. [Employee] went above and beyond her duties to help.

While Working

Group Life Insurance

State Employees

Teachers

PLD Employees

[PLD Retirement Planning Sessions](#)

PLD Open Enrollment Sessions

Legislators

Judges

Getting Ready to Retire

Interest Rates

FAQs

MainePERS Benefit Estimator

PLD Retirement Planning Sessions

MainePERS offers three types of presentations for members of PLD Retirement Plans: Intro to PLD Plan, Ready to Retire and Special Plan.

The **Intro to PLD Plan** session provides a general overview and is open to anyone who wants to learn more about the plan. Members do not need a retirement estimate to take part in this presentation. Topics covered include how your retirement benefit is calculated, how service credit accrues, eligibility/vesting, and common MainePERS terms.

The **Ready to Retire** session is for those who are eligible and intend to retire within the next year and who have received a retirement estimate within the past year. Topics covered include how each benefit payment option works, how benefits are paid, and other common retirement questions.

The **Special Plan** session provides retirement information for members participating in one of our special plans. These plans are typically limited to Police, Fire, Corrections, and EMS personnel, but these positions may also be covered by a regular plan. If you are unsure whether you participate in a Special Plan MainePERS strongly encourages you to confirm with your employer or MainePERS prior to registering. Topics covered include becoming eligible under the special plan, how your retirement benefit is calculated, and other common retirement questions.

To attend a session, call 1-800-451-9800 or use the links below to pre-register. If you need to request a retirement estimate, contact the PLD Unit at PLD@mainepers.org or by calling 1-800-451-9800.

Sessions are currently being offered through the ZOOM program. Information about accessing these sessions will be sent to you after registration.

2024 & 2025 Retirement Planning Sessions

Introduction to PLD Plan

DAY	DATE	TIME	SUBJECT	STATUS	REGISTER
Thursday	10/3/2024	3:00 pm	INTRO TO PLD PLAN	ONLINE	REGISTER
Wednesday	1/8/2025	1:00 pm	INTRO TO PLD PLAN	ONLINE	REGISTER
Thursday	4/3/2025	1:00 pm	INTRO TO PLD PLAN	ONLINE	REGISTER

Ready to Retire

DAY	DATE	TIME	SUBJECT	STATUS	REGISTER
Tuesday	11/26/2024	3:00 pm	READY TO RETIRE	ONLINE	REGISTER
Wednesday	2/5/2025	1:00 pm	READY TO RETIRE	ONLINE	REGISTER
Thursday	5/8/2025	1:00 pm	READY TO RETIRE	ONLINE	REGISTER

Special Plan

DAY	DATE	TIME	SUBJECT	STATUS	REGISTER
Wednesday	12/11/2024	3:00 pm	SPECIAL PLAN SESSION	ONLINE	REGISTER
Wednesday	3/5/2025	1:00 pm	SPECIAL PLAN SESSION	ONLINE	REGISTER
Thursday	6/5/2025	1:00 pm	SPECIAL PLAN SESSION	ONLINE	REGISTER

MEMORANDUM

Date: October 28, 2024

To: PLD Advisory Committee Members

From: Kathy Morin, Director of Actuarial and Legislative Affairs

Re: 2024 Actuarial Valuation/Fiscal Year 2026 Rate-Setting

Bonnie Rightnour, Fiona Liston and Greg Reardon from Cheiron will join the meeting to discuss the results of the 2024 Valuation and fiscal year 2026 rate setting.

2024 Valuation Results

The System's actuary, Cheiron, has completed the June 30, 2024 valuation, and the full report is included with this memo. At its meeting on October 10, the Board of Trustees accepted the valuation report. Cheiron will review the key results of this year's valuation at the meeting. A copy of the actuarial presentation for the November 5 meeting is also included with this memo.

Fiscal Year 2026 Rate Setting

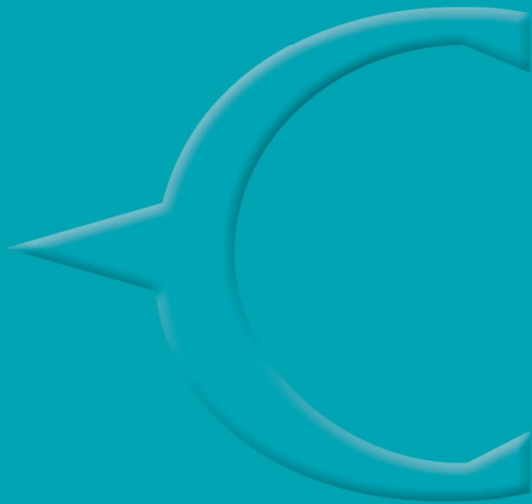
Employer and member rates for fiscal year 2026 will be determined based on the results of the June 30, 2024 valuation work. Cheiron will review the rate setting process and present the fiscal year 2026 rates that support the goals of: 1) allocating costs 58% to employers and 42% to employees, and 2) paying the aggregate rate that is produced by the annual valuation.

In the process of completing the valuation work this year, Cheiron discovered that the liabilities increased more than expected due to an understatement of liabilities in the 2023 valuation. This results in higher rates for fiscal year 2026 than were discussed at the August Committee meeting. Cheiron will provide more explanation and details about this at the meeting.

In order to provide employers with fiscal year 2026 rates in a timely manner, the Committee will need to take an action to recommend rates at the November 5 meeting.

Recommendation

That the Committee endorse the fiscal year 2026 employer and member rates as recommended by Cheiron.



Maine Public Employees Retirement System

Consolidated Plan for Participating Local Districts

**Actuarial Valuation Report
as of June 30, 2024**

**Produced by Cheiron
October 2024**

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
Letter of Transmittal	i
Foreword	iii
Section I Board Summary	1
Section II Risk Assessment and Disclosure	12
Section III Assets	24
Section IV Liabilities	30
Section V Contributions	34
Section VI Financial Disclosure Information	40
 <u>Appendices</u>	
Appendix A Participating Local District Plan Elections	49
Appendix B Membership Information	64
Appendix C Summary of Plan Provisions	72
Appendix D Actuarial Assumptions and Methods	81
Appendix E Glossary of GASB Terms	90

October 10, 2024

Board of Trustees
Maine Public Employees Retirement System
PO Box 349
Augusta, Maine 04332-0349

Dear Members of the Board:

We are pleased to submit the June 30, 2024 Actuarial Valuation Report for the Consolidated Plan for Participating Local Districts (Plan) of the Maine Public Employees Retirement System (MainePERS or System).

The purpose of this report is to present the annual actuarial valuation of the Participating Local Districts (Plan) of the Maine Public Employees Retirement System. This report contains information on assets, liabilities, and contributions of the Plan, as well as required accounting statement disclosures under the Governmental Accounting Standards Board (GASB) Statement No. 67.

In preparing our report, we relied on information, some oral and some written, supplied by the System's staff. This information includes, but is not limited to, the Plan provisions, employee data, and financial information as of the valuation date. 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, *Data Quality*.

Future results may differ significantly from the current results presented in this report due to such factors as the following: Plan experience differing from that anticipated by the 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 and 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. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion 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 Trustees
Maine Public Employees Retirement System
October 10, 2024
Page ii

This actuarial report was prepared exclusively for MainePERS for the purposes described herein and for use by the Plan auditor in completing an audit related to the matters herein. Other users of this report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to such other users.


Sincerely,
Cheiron



Bonnie Rightnour, FSA, EA
Principal Consulting Actuary



Fiona E. Liston, FSA, EA
Principal Consulting Actuary



Gene Kalwarski, FSA, EA
Principal Consulting Actuary

CC: Greg Reardon, Cheiron
Kathleen Weaver, Cheiron

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

FOREWORD

Cheiron has completed the Actuarial Valuation Report for the Consolidated Plan for Participating Local Districts (Plan) of the Maine Public Employees Retirement System (MainePERS or System) as of June 30, 2024. The purpose of this report is to:

- 1) Measure and disclose, as of the valuation date, the financial condition of the Plan,
- 2) Examine trends, both historical and prospective, in the condition of the Plan,
- 3) Assess and disclose actuarial risks of the Plan,
- 4) Report on the contribution rates developed in this valuation for informational purposes for the Participating Local Districts (PLDs) and members for fiscal year (FY) 2026 in aggregate (Note: the actual contributions to be paid by PLDs and members specific to each Regular and Special Plan within the Plan for FY 2026 will be developed consistent with the ratemaking policy of the MainePERS Board of Trustees and provided under separate cover), and
- 5) Provide specific information required for MainePERS's financial disclosures.

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

Section I presents a summary containing our key findings, disclosing important Plan trends in recent years, and providing analysis relating to the future status of the Plan.

Section II assesses and discloses various actuarial risk measures of the Plan.

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

Section IV shows similar information on liability measures for various purposes, including analysis of key changes in the measures.

Section V develops informational PLD and member contribution rates for the Plan in aggregate for FY 2026. (The actual rates paid for each specific Regular and Special Plan within the Plan are developed consistent with the risk-sharing framework of the MainePERS Board of Trustees and provided under separate cover.)

Section VI includes financial disclosure information.

Finally, we present appendices containing the following summaries:

- Plan elections that have been made by the participating local districts (PLDs) at the valuation date (Appendix A),
- Plan membership information at the valuation date (Appendix B),
- Major benefit provisions of the Plan and the various Regular and Special Plans included in the Plan (Appendix C),
- Actuarial assumptions and methods used in the current valuation (Appendix D), and
- Terminology used in the Governmental Accounting Standards Board (GASB) disclosures (Appendix E).

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION I – BOARD SUMMARY

General Comments

Most of the participating local districts in the State of Maine participate in this Consolidated Plan for the Participating Local Districts (Plan). The Plan offers a number of Plan options from which each Participating Local District (PLD) can choose, with each option having its own specific contribution rates to be paid by both the member and their associated PLD. Both the member contributions and the PLD contributions are paid as distinct rates that are set by the risk-sharing framework adopted by the MainePERS Board of Trustees and are applicable to payroll. Prior to the 2018 valuation, the member rates were static and set by the Board, while the PLD rates were established using the previous corridor method.

The results of this June 30, 2024 valuation will be used to develop the specific rates for both PLDs and members of each Regular and Special Plan within the Plan for FY 2026. This report develops the Actuarially Determined Plan Total Rate and the Plan-Specific Normal Cost Rates that are the basis of this process to develop the specific rates. The results of this June 30, 2024 valuation will also be used for accounting disclosures.

Experience from July 1, 2023 through June 30, 2024 (FY 2024)

With respect to investment experience, measured on a market value of assets (MVA) basis, MainePERS experienced an investment return of positive 7.43% for the fiscal year ending June 30, 2024. This is more than the assumed rate of return of 6.50%. However, given the three-year asset smoothing method in place, only one-third of that gain is recognized in this valuation on an actuarial value of assets (AVA) basis. Furthermore, the asset smoothing also resulted in recognizing one-third of prior deferred asset gains of \$47 million during FY 2024 for this Plan. As a result, the investment return measured on a smoothed, actuarial valuation of assets basis was 7.26%. This is also greater than the 6.50% assumed rate of return in effect for FY 2024, resulting in a gain on investments for the year of \$29.2 million.

With respect to liability experience, the Plan experienced a liability loss of \$150.6 million above the expected growth of \$160.9 million (a 3.5% growth in total liabilities beyond expected growth). Of this increase, approximately \$11.6 million was attributable to the payment of 2.5% capped cost-of-living adjustments (COLA) exceeding the 1.91% assumption. In addition to the regular COLA adjustment, a 0.5% one-time COLA payment was paid to eligible retirees during FYE 2024. About \$58 million of this loss was due to an understatement of the liability loss in 2023, and the \$81 million balance was primarily attributable to salaries being greater than expected.

For FY 2024, the resulting new UAL amortization base is a net loss of \$105 million. Combining the investment and liability experience, the Actuarially Determined Plan Total Rate produced a net experience loss of \$121 million. In addition, there was a \$16 million gain due to contribution timing. There will always be a contribution timing gain or loss because the UAL amortization from a given valuation is not incorporated into the contribution until the fiscal year that begins one year later. Finally, this translates to a Plan total contribution rate, reflecting all Plans within the

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION I – BOARD SUMMARY

Consolidated Plan for Participating Local Districts, of 19.2%. This is an increase of 0.6% compared to the June 30, 2023 Plan total contribution rate of 18.6% of payroll. The Plan-Specific rates for each PLD and members of each Regular and Special Plan for each fiscal year are developed annually in letters provided under separate cover. The rates for FY 2024 were developed in a letter dated November 9, 2022, and the rates for FY 2025 were developed in a letter dated November 20, 2023. The Plan-Specific Rates for both the PLD and members for each Regular and Special Plan for FY 2026 based on this June 30, 2024 valuation will be provided under similar separate cover.

Note that this Total Rate differs from that tracked for the other MainePERS Programs as it reflects contributions from both members and the employers, the PLDs in the case of this Plan. In the other Programs, the employer-only portion of the contribution is reported in the equivalent experience sections. The reason for this difference is that in this Plan, the contributions from members change with experience similar to the contributions from employers, so it makes sense to track the progress of the Total Rate.

As of the June 30, 2024 valuation, the Plan has an unfunded actuarial liability (UAL) of \$457.8 million based on the actuarial value of assets (AVA). This represents an increase of \$91.7 million from the \$366.1 million AVA UAL measured as of June 30, 2023. This compares to an expected decrease in the UAL of \$13.5 million. The specific factors contributing to this change are presented in Table I-1 that follows. This table has separate columns showing the components of the changes in liabilities and investments during FY 2024 as well as their combined effect on the UAL.

Table I-1 (Amounts in Millions)			
	Liabilities	Assets*	UAL
Value as of June 30, 2023	\$ 4,165.8	\$ 3,799.7	\$ 366.1
Expected Change	160.9	175.3	(14.4)
Impact of Plan Changes	0.9	0.0	0.9
Impact of Assumption Changes	0.0	0.0	0.0
Impact of Contribution Timing	0.0	16.2	(16.2)
Recognized Investment Gain	0.0	29.2	(29.2)
Recognized Liability Loss	150.6	0.0	150.6
Value as of June 30, 2024	\$ 4,478.2	\$ 4,020.4	\$ 457.8

* This table uses actuarial value of assets. Results would be different if the market value were used.

The remainder of this Board Summary section summarizes the Plan's historical trends, provides baseline projections of the Plan's future status, and summarizes the principal results of the valuation. These principal results compare key results between this and last years' valuations for member counts, assets and liabilities, and total contribution rates.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION I – BOARD SUMMARY

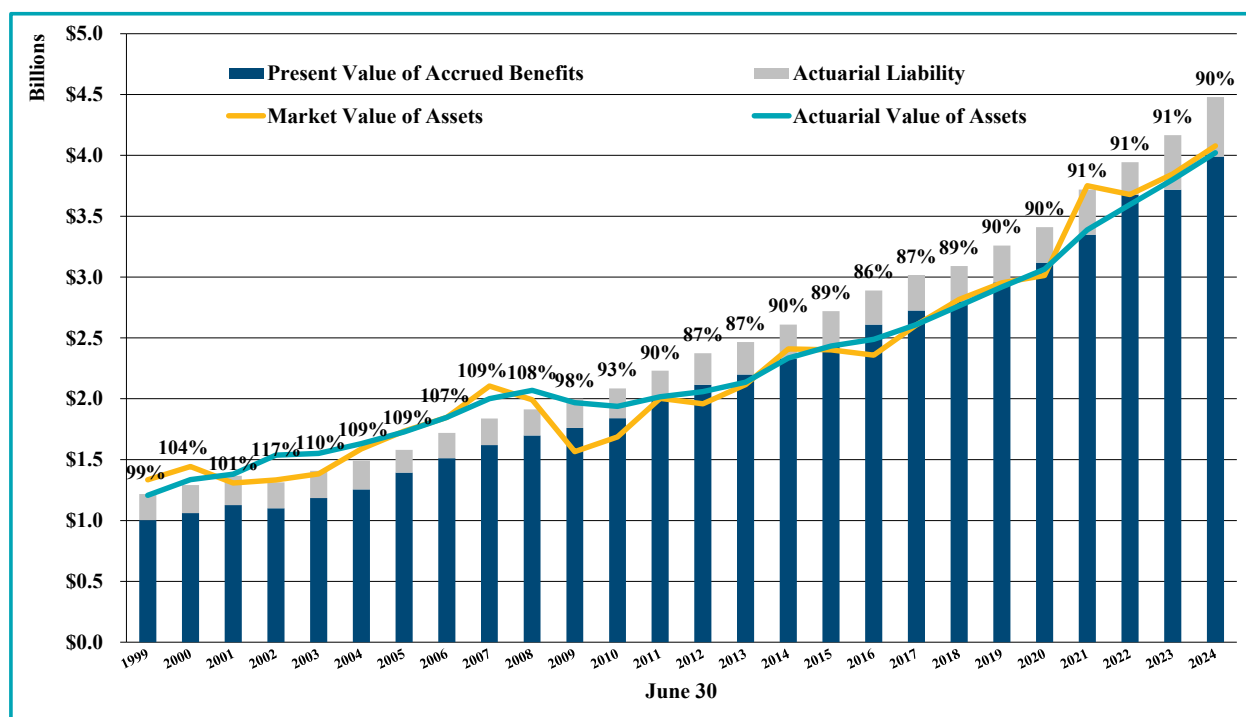
Trends

It is important to take a step back from the latest results and view them in the context of the Plan's history. On the next few pages, we present a series of graphs that display key historical trends relating to the Plan's condition. In addition to considering the past, examining future possible trajectories of the Plan is also vital to understanding the current results. Baseline projections are provided in this Board Summary, and the potential variability of these results is explored further in the risk section of this report.

Assets and Liabilities

The following graph illustrates the progress of assets and liabilities for the Plan as well as the Plan's funded ratio on an actuarial value of assets (AVA) basis since June 30, 1999.

Liability measures are shown as bars as of June 30 of the indicated years. The actuarial liability (AL), the liability measure used for the Plan's funding purposes, is represented by the top of the grey bars. The blue bars represent the present value of accrued benefits (PVAB). These liability measures are discussed further in Section IV. Measures of the assets are shown as lines. The AVA is shown with a teal line, while the market value of assets (MVA) is shown as a yellow line. The AVA divided by the AL is the AVA funded ratio that is often used in evaluating the Plan's funded status. The value of this metric at each valuation date is shown as the percentages in the graph labels.



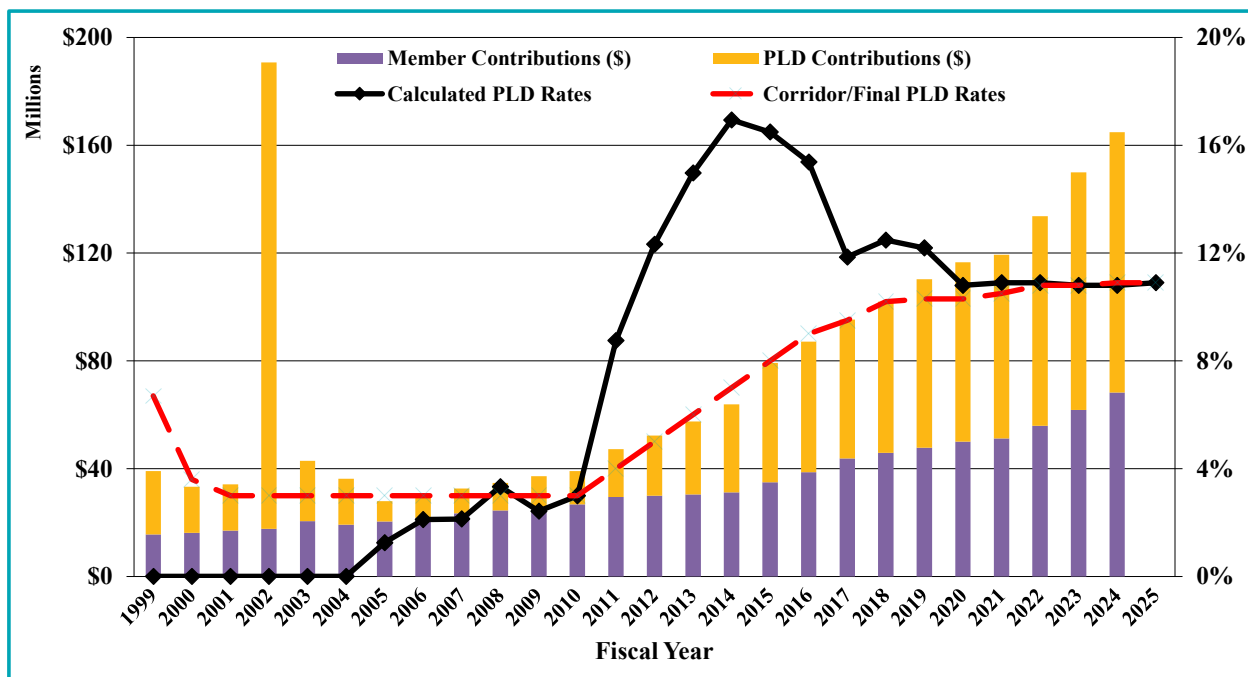
**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION I – BOARD SUMMARY

This graph shows that the Plan had its highest AVA funded ratio (117%) over the period shown as of June 30, 2002, which was just after several PLDs paid off their Initial Unpooled Unfunded Actuarial Liabilities (IUUALs). After that, the funded ratio was relatively stable around 107-110% until the financial market events of 2008-2009 resulted in the ratio dropping below 100%. Following that drop, the ratio stabilized again beginning June 30, 2011 and has stayed in the range of 86-91% since that time. Measured on an MVA basis, the funded ratio is 91.1%, a slight decrease over last year's 92.3% MVA funded ratio.

Contributions

The next graph shows the history of contributions to the Plan, both as dollar amounts and as percentages of payroll. The bars in this graph show the contributions made by both the PLDs and the members in dollar terms for each fiscal year (FY) as indicated by the horizontal axis since 1999. These bars are read using the left-hand axis. Through FY 2019, the black line shows the actuarially calculated total pooled PLD contribution rate as a percentage of payroll for the fiscal year indicated. Beginning with FY 2020, the amount shown by the black line is the Actuarially Determined Plan PLD Rate under the risk-sharing framework. Similarly, the red dotted line in this graph shows the aggregate corridor contribution rate actually in effect for each year through FY 2019 and then shows the Aggregate Final PLD Rate, which reflects all adjustments from the risk-sharing framework, beginning with FY 2020. For both of these rates, which are read using the right-hand axis, we are showing the rates through FY 2025, the latest year for which the Aggregate Final PLD rate, which corresponds with the rates that will actually be paid, has been developed. Note that both the red and black lines represent the rates that apply to the PLDs and do not include the member rate.



**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION I – BOARD SUMMARY

The significant increase in the total calculated rate from FY 2010 to FY 2014 was due primarily to investment losses sustained in the 2008-09 market events. The increases in the aggregate corridor rate during this period combined with benefit changes made progress to close the gap between these two rates through FY 2019, the last year that the method used to determine the actual contributions paid by the PLDs was the corridor method. Beginning with FY 2020, the calculated rate has been determined with the risk-sharing framework. Initially, this calculated rate (the Actuarially Determined Plan PLD Rate shown by the black line) was slightly above the actual final rates being paid (the Aggregate Final PLD Rate shown as the red line) as the risk-sharing framework was phased in, but beginning with the Final Rates developed based on the June 30, 2021, valuation, these two rates have converged. Note, however, that while the total rates have converged, the allocation of the rate between PLDs and members is still being phased in, but we anticipate these will also converge as the risk-sharing framework is fully phased in.

The majority of the actual PLD contribution dollars shown are based on the rates determined by the funding methodology in effect for the period, but some PLDs also pay an additional IUUAL contribution to amortize the liability specific to their members as well as contributions related to purchases of service by members. Note that the large dollar amount contributed in FY 2002 by the PLDs in the previous graph was due to several PLDs paying off their IUUAL amounts as IUUAL contributions are included in the PLD contributions shown in the yellow bars.

Through FY 2019, the member contribution rates were fixed values, ranging from 4.5% to 9.5%, as set by statute and the Board, specific to the Regular or Special Plan in which each member participates. Beginning with FY 2020, the member contribution rates are determined under the risk-sharing framework adopted by the Board as described in the General Comments section of this Board Summary. The Aggregate Final PLD Member Rate in effect for FY 2025 is 7.8%.

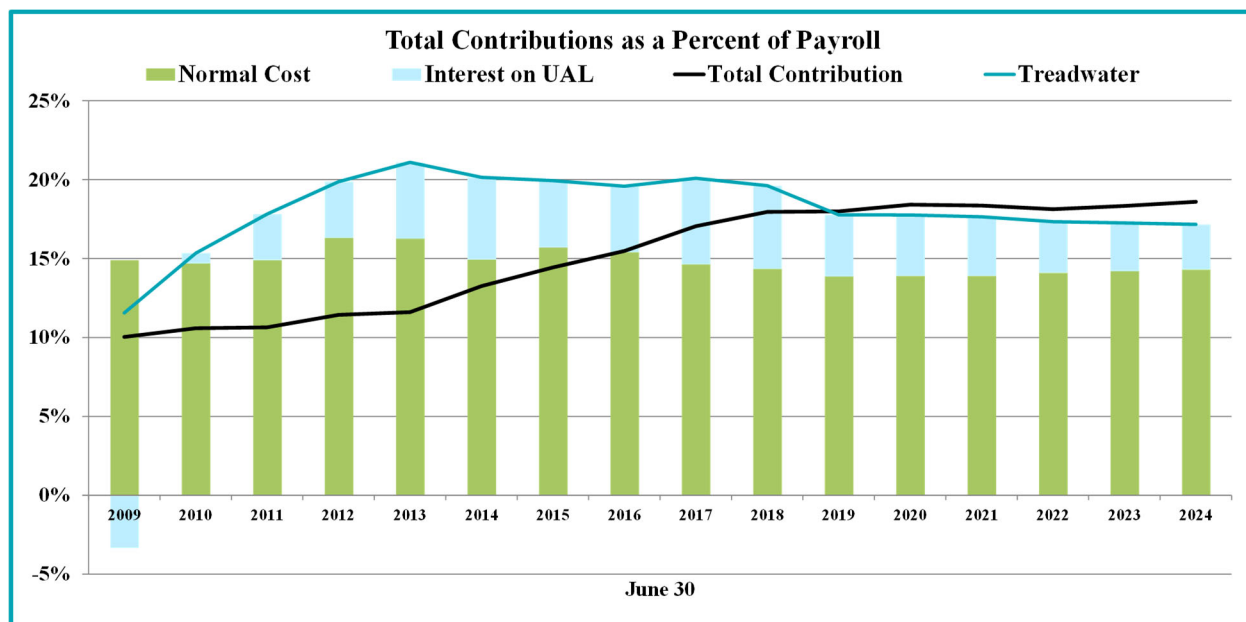
Note that in addition to the member contribution rates varying by the specific Plan each member is in, for those participating in Regular Plans, members with an Age 65 normal retirement age (NRA) contribute at a lower rate than those in the NRA 60 plans. See the description of these items in Section V for additional information. The specific rates by Plan for FY 2025, the most recent year currently developed, range from a low of 3.35% for the Age 65 Plan Member Rate under Plan BC to a high of 10.1% for members in Plans 1C.

The next chart compares the total contribution rate to a rate we refer to as the “tread water” rate. The tread water rate is that rate of payroll which, if contributed, would result in the UAL remaining the same in the following year if all experience exactly matched the assumptions. The tread water rate is the full normal cost plus interest on the UAL.

As can be seen in the following chart, the total contribution rate has exceeded the tread water rate since 2019.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION I – BOARD SUMMARY



Baseline Projections

Our analysis of the projected financial trends for the Plan is an important part of this valuation. In this section, we project future valuation results, focusing on the previously referenced AVA funded ratio (AVA over AL), the expected Actuarially Determined Plan PLD Rate, and the expected Actuarially Determined Plan Member Rate. Here we present a baseline projection of these metrics based on all actuarial assumptions being exactly met during the projection period, including the assumed 6.50% investment return being achieved each year. In the risk section of the report, we demonstrate the sensitivity of future valuation results to deviations in actual returns from the assumed investment returns by presenting similar projections based on investments earning an average return similar to the assumed return but deviating from the assumed rate in the individual years over the 20-year projection period.

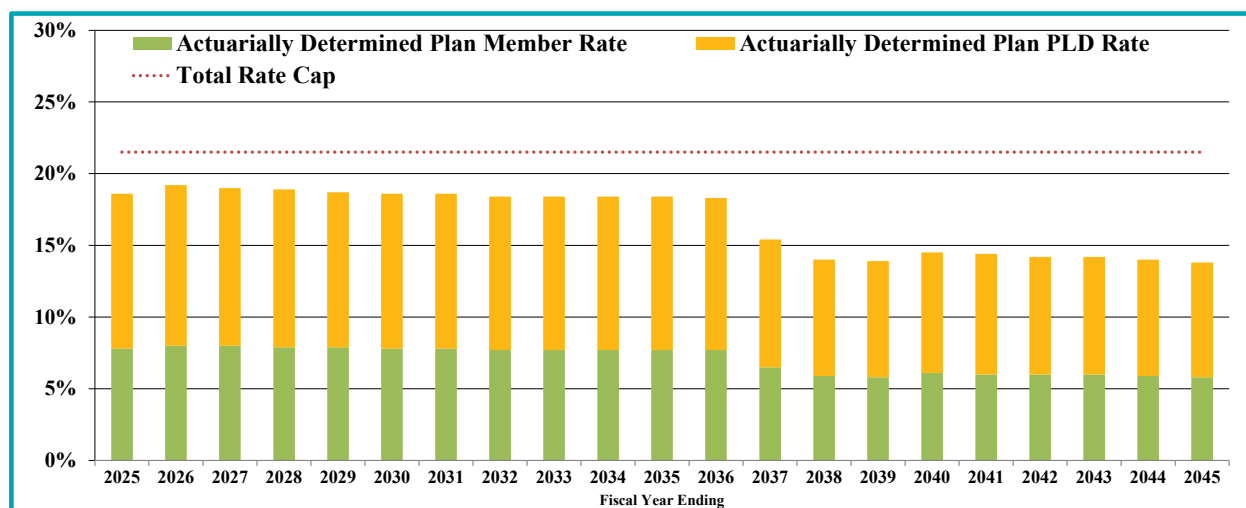
Note that in these projections, we have assumed that the PLD and member contributions received by the Plan are the actuarially determined amounts developed as of the valuation date one year prior to the beginning of each fiscal year rather than the Plan-Specific contributions developed under the risk-sharing framework. If the actual contributions received are different from this assumption, the results will vary. However, as the risk-sharing framework has been largely phased in at this point, with the actuarially determined and final aggregate rates having fully converged and the only differences between the actual and calculated contributions being in the allocations between the PLDs and the members, no significant variation is anticipated as a result of this assumption.

In addition, in these baseline projections, as well as the varying return projection scenarios in the next section, we have assumed that the Aggregate Final Total Rate is subject to a minimum equal to 100% of the total normal cost at that time, allocated 58% to the PLDs and 42% to the members.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION I – BOARD SUMMARY

For example, based on the 14.3% total normal cost produced in this June 30, 2024 valuation, this currently results in a minimum contribution of 8.3% for the PLDs and 6.0% for the members. In developing these projections, we have also reflected the anticipated decline in the total normal cost over time as members under the newer tier, which provides lower benefits and hence a lower normal cost, replace current members in the older tier. Actual minimums under the risk-sharing framework have not yet been adopted by the Board, but it is our understanding that the Board's intent is to have a minimum similar to this. If the actual rules differ such that the otherwise determined contributions would go below this assumed minimum contribution level, the resulting projections would vary.



The graph above shows the expected progress of the Actuarially Determined Plan Member Rate and Actuarially Determined Plan PLD Rate over the next 20 years assuming that the Plan's assets earn 6.50% on their *market value* as well as all other current assumptions being exactly met in each year of the 20-year projection period. In addition, these projected contribution rates also reflect any prior years' actual investment gains or losses that have not been fully recognized in this valuation. The green bars represent the Actuarially Determined Plan Member Rate, while the yellow bars represent the Actuarially Determined Plan PLD Rate. The combined bars thus represent the Actuarially Determined Plan Total Rate. Note that these rates represent the rates expected to be calculated for the Plan as a whole, as opposed to the Plan-Specific rates developed under the risk-sharing framework. However, as previously noted, these rates have now converged when considered in total with only the allocation between the members and PLDs continuing to be phased in.

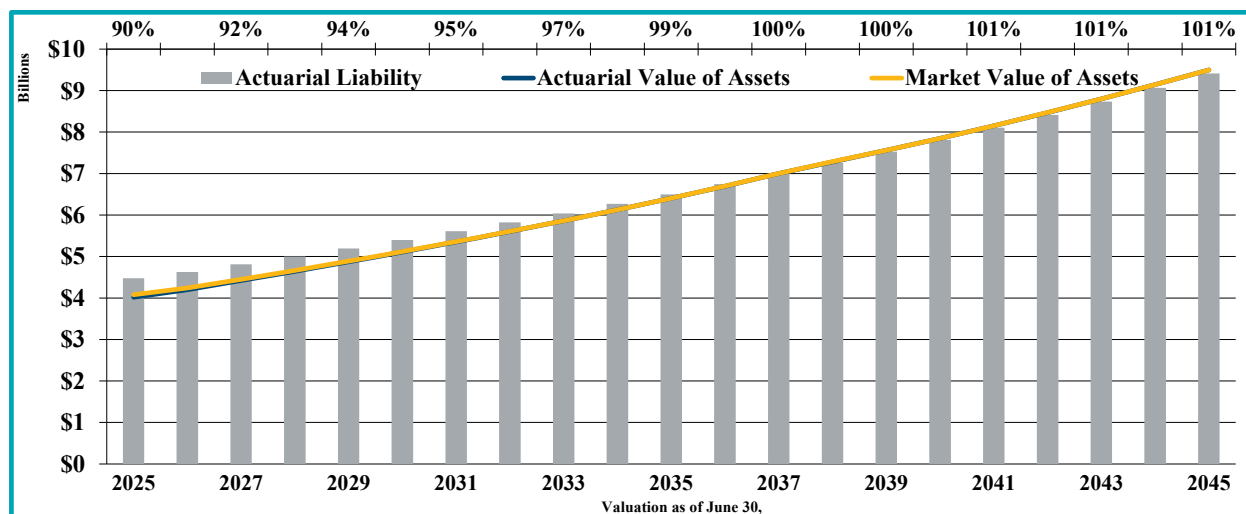
Assuming all assumptions are exactly met, it is projected that the contributions will decline through FY 2036 when the existing UAL will be paid off and then hover around the Plan's total normal cost rate. However, in reality, there will be gains and losses each and every year resulting in new amortization layers (negative or positive) as well as additional layers reflecting changes such as assumption or benefit changes. This concept is explored further in the risk section of this report.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION I – BOARD SUMMARY

This graph also includes a dashed red line showing the 21.5% Total Rate Cap for the Program, which is composed of 12% PLD Contribution Rate Cap and a 9.5% Member Contribution Rate Cap. In this baseline projection, this Total Rate Cap is not hit in any of the years of the projection. In years that the contributions are limited by these caps, temporary reductions in the COLA are implemented under the provisions of this Plan to make up the difference in the actuarially determined contributions and the actual contributions limited by these caps. Since the Total Rate Cap is not hit in any of the years of this baseline projection, no temporary COLA reductions are required and thus the percentage of the COLA to be paid each year of the projection is 100%.

The graph below shows the projected AVA funded ratio (AVA divided by AL) over the next 20 years in this baseline scenario. It shows that the Plan's AVA funded ratio is projected to improve from the starting level of 90% as of FY 2025 to 101% in FY 2045. The amounts shown are as of June 30 of the year identified in the horizontal axis. The Plan's funded ratio exceeds 100% due to the lag in the development of contributions and when they are paid as well as the assumed minimum contributions to the Plan. Note that if these ratios used market value of assets (MVA), the funded ratios would be different.



Principal Results Summary

The last section of this Board Summary presents a summary of the principal results of the valuation, comparing key results between this and last years' valuations for member counts, assets and liabilities, and contribution rates. These summary results are shown for the total Consolidated Plan as well as the division into the Regular Plans subgroup and the Special Plans subgroup.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION I – BOARD SUMMARY

**Table I-2
Summary of Principal Results
PLD Consolidated Retirement Plan
Total**

	Valuation as of June 30, 2023	Valuation as of June 30, 2024	% Change
<u>Member Counts</u>			
Active Members	13,122	13,561	3.3%
Retired Members	7,905	8,121	2.7%
Beneficiaries of Retired Members	2,128	2,144	0.8%
Survivors of Deceased Members	179	180	0.6%
Disabled Members	403	408	1.2%
Terminated Vested Members	2,865	2,953	3.1%
Inactives Due Refunds	<u>10,467</u>	<u>10,253</u>	(2.0%)
Total Membership	37,069	37,620	1.5%
Annual Payroll of Active Members	\$ 831,914,971	\$ 909,408,424	9.3%
Annual Payments to Benefit Recipients	\$ 203,377,930	\$ 215,905,262	6.2%
<u>Assets and Liabilities</u>			
Actuarial Liability (AL)	\$ 4,165,812,801	\$ 4,478,226,902	7.5%
Actuarial Value of Assets (AVA)	<u>3,799,744,503</u>	<u>4,020,441,970</u>	5.8%
Unfunded Actuarial Liability (UAL)	\$ 366,068,298	\$ 457,784,932	25.1%
Individual Portion (IUUAL)	<u>NA</u>	<u>NA</u>	
Pooled Portion (PUAL)	\$ 366,068,298	\$ 457,784,932	25.1%
AVA Funded Ratio (AVA/AL)	91.2%	89.8%	
MVA Funded Ratio (MVA/AL)	92.3%	91.1%	
Accrued Benefit Liability (PVAB)	\$ 3,717,080,285	\$ 3,990,062,383	7.3%
Market Value of Assets (MVA)	<u>3,846,717,708</u>	<u>4,077,975,617</u>	6.0%
Unfunded PVAB	\$ (129,637,423)	\$ (87,913,234)	32.2%
MVA Accrued Benefit Funded Ratio	103.5%	102.2%	
<u>Plan Total Contribution Rates*</u>			
	<u>FY 2025</u>	<u>FY 2026</u>	
Actuarially Determined Plan			
Normal Cost Rate	14.3%	14.3%	
Actuarially Determined Plan			
UAL Amortization Rate	<u>4.3%</u>	<u>4.9%</u>	
Actuarially Determined Plan Total Rate	18.6%	19.2%	

* These are actuarially determined amounts from which the Plan-Specific member and PLD rates are determined based on the risk-sharing framework. As such, these values are informational rates developed based on the entire Plan rather than applied to any specific Plan.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION I – BOARD SUMMARY

**Table I-3
Summary of Principal Results
PLD Consolidated Retirement Plan
Regular Plans: AC, AN & BC**

	Valuation as of June 30, 2023	Valuation as of June 30, 2024	% Change
<u>Member Counts</u>			
Active Members	9,197	9,397	2.2%
Retired Members	6,229	6,403	2.8%
Beneficiaries of Retired Members	1,460	1,480	1.4%
Survivors of Deceased Members	162	164	1.2%
Disabled Members	285	284	(0.4%)
Terminated Vested Members	2,402	2,464	2.6%
Inactives Due Refunds	<u>9,631</u>	<u>9,261</u>	(3.8%)
Total Membership	29,366	29,453	0.3%
Annual Payroll of Active Members	\$ 532,065,996	\$ 569,720,771	7.1%
Annual Payments to Benefit Recipients	\$ 125,559,611	\$ 132,993,133	5.9%
<u>Assets and Liabilities</u>			
Actuarial Liability (AL)	\$ 2,352,772,112	\$ 2,509,103,387	6.6%
Actuarial Value of Assets (AVA)	<u>2,140,389,483</u>	<u>2,250,617,331</u>	5.1%
Unfunded Actuarial Liability (UAL)	\$ 212,382,629	\$ 258,486,057	21.7%
Individual Portion (IUUAL)	<u>NA</u>	<u>NA</u>	
Pooled Portion (PUAL)	\$ 212,382,629	\$ 258,486,057	21.7%
AVA Funded Ratio (AVA/AL)	91.0%	89.7%	
MVA Funded Ratio (MVA/AL)	92.1%	91.0%	
Accrued Benefit Liability (PVAB)	\$ 2,140,672,264	\$ 2,288,627,335	6.9%
Market Value of Assets (MVA)	<u>2,166,849,408</u>	<u>2,282,824,294</u>	5.4%
Unfunded PVAB	\$ (26,177,144)	\$ 5,803,041	(122.2%)
MVA Accrued Benefit Funded Ratio	101.2%	99.7%	
<u>Regular Plan Total Contribution Rates*</u>			
	<u>FY 2025</u>	<u>FY 2026</u>	
Actuarially Determined Regular Plans			
Normal Cost Rate	12.9%	12.9%	
Actuarially Determined Regular Plans			
UAL Amortization Rate	<u>3.9%</u>	<u>4.4%</u>	
Actuarially Determined Regular Plans			
Total Rate	16.8%	17.3%	

* These are actuarially determined amounts that are solely for informational purposes. They are developed based on all the Regular Plans in the Plan rather than applied to any specific Plan.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION I – BOARD SUMMARY

**Table I-4
Summary of Principal Results
PLD Consolidated Retirement Plan
Special Plans: 1C-4C & 1N-4N**

	Valuation as of June 30, 2023	Valuation as of June 30, 2024	% Change
<u>Member Counts</u>			
Active Members	3,925	4,164	6.1%
Retired Members	1,676	1,718	2.5%
Beneficiaries of Retired Members	668	664	(0.6%)
Survivors of Deceased Members	17	16	(5.9%)
Disabled Members	118	124	5.1%
Terminated Vested Members	463	489	5.6%
Inactives Due Refunds	836	992	18.7%
Total Membership	7,703	8,167	6.0%
Annual Payroll of Active Members	\$ 299,848,975	\$ 339,687,653	13.3%
Annual Payments to Benefit Recipients	\$ 77,818,319	\$ 82,912,129	6.5%
<u>Assets and Liabilities</u>			
Actuarial Liability (AL)	\$ 1,813,040,689	\$ 1,969,123,515	8.6%
Actuarial Value of Assets (AVA)	1,659,355,020	1,769,824,639	6.7%
Unfunded Actuarial Liability (UAL)	\$ 153,685,669	\$ 199,298,876	29.7%
Individual Portion (IUUAL)	NA	NA	
Pooled Portion (PUAL)	\$ 153,685,669	\$ 199,298,876	29.7%
AVA Funded Ratio (AVA/AL)	91.5%	89.9%	
MVA Funded Ratio (MVA/AL)	92.7%	91.2%	
Accrued Benefit Liability (PVAB)	\$ 1,576,408,021	\$ 1,701,435,048	7.9%
MVA Market Value of Assets (MVA)	1,679,868,300	1,795,151,323	6.9%
Unfunded PVAB	\$ (103,460,279)	\$ (93,716,275)	N/A
Accrued Benefit Funded Ratio	106.6%	105.5%	
<u>Special Plan Total Contribution Rates*</u>			
	<u>FY 2025</u>	<u>FY 2026</u>	
Actuarially Determined Special Plans			
Normal Cost Rate	16.6%	16.6%	
Actuarially Determined Special Plans			
UAL Amortization Rate	5.0%	5.7%	
Actuarially Determined Special Plans			
Total Rate	21.6%	22.3%	

* These are actuarially determined amounts that are solely for informational purposes. They are developed based on all the Special Plans in the Plan rather than applied to any specific Plan.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE

Introduction

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

Identification of Risks

For this Plan, the three primary valuation results that can significantly differ from those expected are the assets, the liabilities, and the annually determined PLD and member contributions. While there are several factors that could lead to these results being different, we believe the primary risks for this Plan are:

- Investment risk,
- Longevity and other demographic risks,
- Plan change risk, and
- Assumption change risk

Other risks that we have not identified may also turn out to be significant.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE

Investment Risk is the potential for investment returns to deviate from what is expected. When actual investment returns are lower than the investment assumption used in the actuarial valuation, the unfunded liability will increase from what was expected and will require higher contributions than otherwise anticipated. But when actual returns exceed those assumed, the resulting unfunded liability measurements and actuarially determined contributions will be lower than anticipated. As seen in the historical section that follows, this has been a significant driver of deviations in the actual measurements for this Plan 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 expectations. In addition, the extensive number of assumptions related to longevity and other demographic experience often result in offsetting deviations contributing to the Plan's overall liability experience. As such, these risks are often dwarfed by other risks, particularly those due to the investment returns. The historical section that follows shows that this has been true for this Plan in many individual years, with the magnitude of the gains and losses from investment experience often significantly larger than the gains and losses from liability experience. In addition, during the past 10 years, the offsetting effects of the longevity and other demographic risk gains and losses have been such that the cumulative net effect of this longevity and other demographic risk as seen in the liability gains and losses has only been about 25% of the cumulative net investment gains and losses and a similar percentage of net assumption change deviations over this same period.

Plan Change Risk is the potential for the provisions of the Plan to be changed such that the funding or benefits are changed materially. In addition to the actual payments to and from the Plan being changed, future valuation measurements can also be impacted, with Plan changes leading to deviations between actual future measurements and those expected by prior valuations. The historical review section will show that plan change risk has been a driver of deviations in the actual measurements for this Plan from those expected by the valuations over the 10-year period shown with varying significance in individual years.

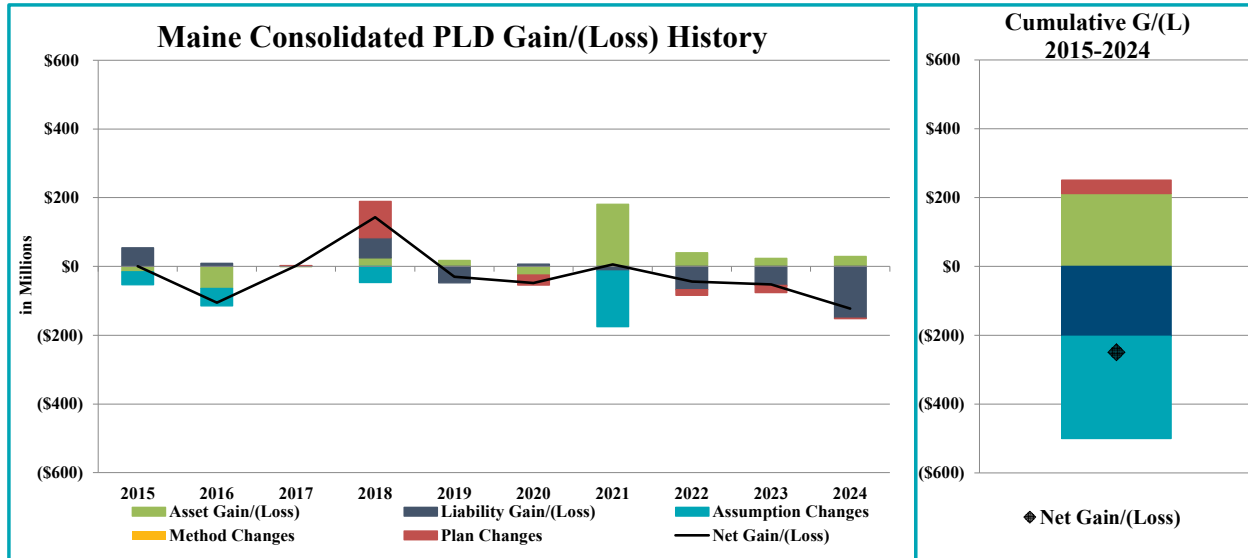
Assumption Change Risk is the potential for the environment to change such that future valuation assumptions are adjusted to be different than the current assumptions. For example, changes in interest rates over time may result in a change in the assumed rates of return used in the valuation. A healthier workforce may result in changes in employee behavior such that retirement rates are adjusted to reflect employees working longer. 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 the environment resulting in the current assumption no longer being reasonable. The historical review section will show that assumption change risk has been a very significant risk for this Plan. In addition to changes in individual assumptions, changes to the methods used in valuing the Plan can have a significant impact on the valuation results as can be seen based on the method change items in the Plan's historical experience. Over the period shown, method changes have also been a contributor to deviations in the Plan's actual status from that expected by prior valuations.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE

Historical Experience Deviations

In understanding the impact of some of these risks, it is useful to look at past experience deviations. These deviations are commonly referred to as actuarial gains and losses. The following graph shows the gains/(losses) at each valuation date between the actual and expected experience broken down by cause for the last 10 years.



As described previously and as evident in this graph, assumption changes and asset gains/(losses) have been the most significant risks for the Plan over this 10-year period. In order of significance to experience deviations over this period, the remaining causes are: liability gains/(losses), plan changes, and method changes. Finally, we note again that while the cumulative effect of the liability gains and losses have been largely offsetting for the last 10 years, they have been significant in individual years, which we expect to remain true for future years.

Plan Maturity Measures

As pension plans become more mature, the primary risks of adverse investments, demographic deviations, plan changes, and assumption/method changes become of more significant concern as the resulting impacts on the Plan's condition are more pronounced. As a result, it has become increasingly important to examine measures that indicate a pension plan's maturity level. With shrinking workforces, aging Baby Boomers, and retirees living longer, plans pay out more in benefits than they receive in contributions – leading to negative cash flows, excluding investment income, making it harder for a plan to recover from losses since contributions are generally made based on active payroll.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE

One of the main reasons risks are more amplified with a mature plan is that when plans with negative cash flows suffer investment losses, they need to liquidate enough assets to pay for benefits in excess of contributions. That means these plans will need to earn higher returns to rebuild their assets to the previous levels. Plans with negative cash flows exceeding five percent of assets are especially vulnerable to asset losses.

The balance of this section discloses and examines three maturity measures: the asset leverage ratio, the support ratio, and the net cash flow ratio.

Asset Leverage Ratio

One important plan maturity measure is the asset leverage ratio, the market value of assets divided by the plan's payroll, which represents the percentage of payroll that would need to be contributed to make up a given change in the plan's assets. As a plan matures, its assets increase, and a greater proportion of the assets are paid out in benefit payments to members. The greater the plan's assets are relative to payroll, the more vulnerable the plan is to investment volatility in terms of the resulting contribution requirement changes.

As an example, here are two plans that both experience a 10% investment loss equaling \$500 million on their existing assets of five billion dollars. Plan A's asset leverage ratio is 10 and Plan B's ratio is five. This means that Plan A has to spread, or amortize, that loss over a payroll that is half as large as Plan B's. As seen in the chart below, this results in the percentage of payroll that Plan A would need to contribute to make up the loss being double what would be required for Plan B.

	(\$ in millions)	
	Plan A	Plan B
Plan Assets	\$ 5,000	\$ 5,000
Payroll	\$ 500	\$ 1,000
Asset Leverage Ratio	10.0	5.0
10% Loss	\$ 500	\$ 500
10% Loss as % of Payroll	100%	50%

The Government Finance Officers Association (GFOA), MissionSquare Research Institute, the National Association of State Retirement Administrators (NASRA), and the Center for Retirement Research at Boston College maintain the Public Plans Data database that contains almost all state plans as well as many large municipal plans, covering over 95% of the membership in public plans as well as over 95% of the assets held by public pension plans.

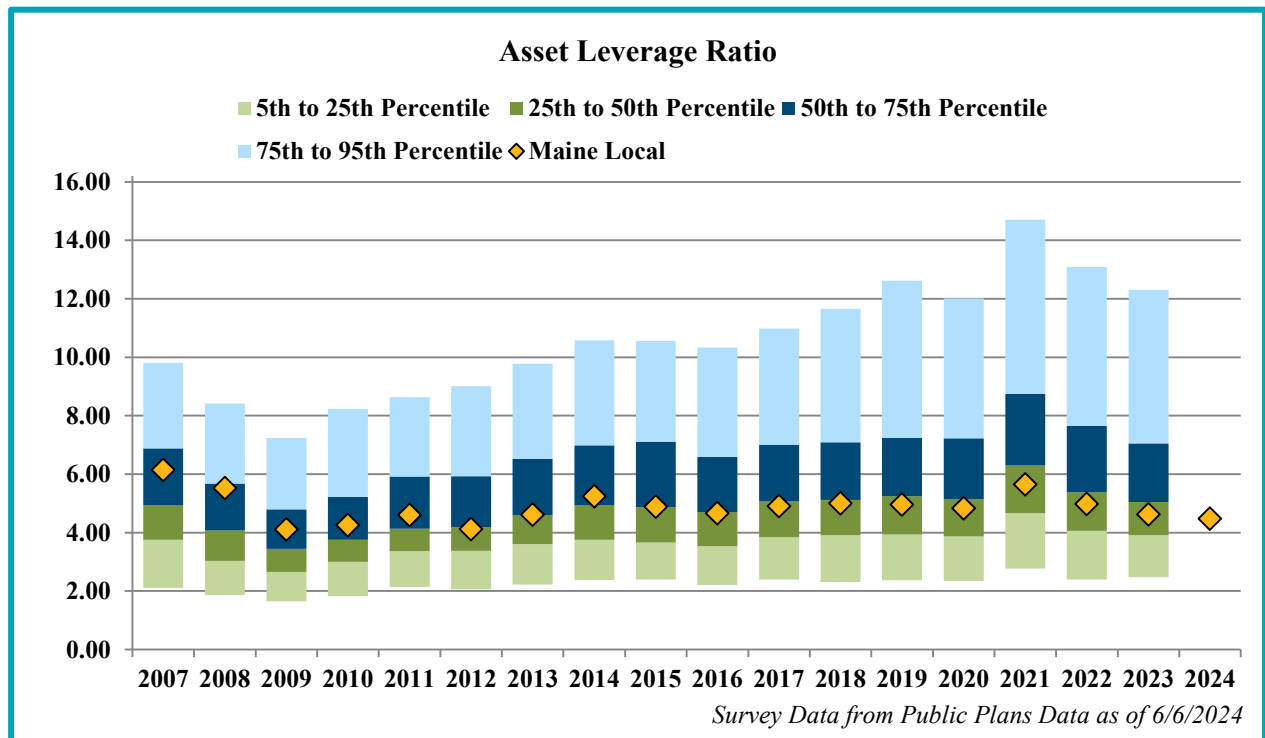
The chart that follows shows the asset leverage ratios for the Plan and the plans in this database since 2007. The colored bars represent the central 90% of the asset leverage ratios of the plans in the database for each year. The Maine Consolidated Plan for Participating Local Districts is represented by the gold diamonds. This chart shows that the Plan's asset leverage ratio has varied over this period but had remained steady at or just under five times salary from 2013 to 2020 before

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE

increasing to 565%, or 5.65 times salary, in FY 2021 with the significant increase in market values that year. The rate is now back within the previous range at 448%, or 4.48 times salary.

Note that the charts showing the Plan versus this universe of public plans in this section show one more year for the Plan than the universe as the 2024 numbers are not yet available for the database. When these numbers are available, we anticipate that the universe of public plans will also show a similar trend experience in this ratio when compared to MainePERS.



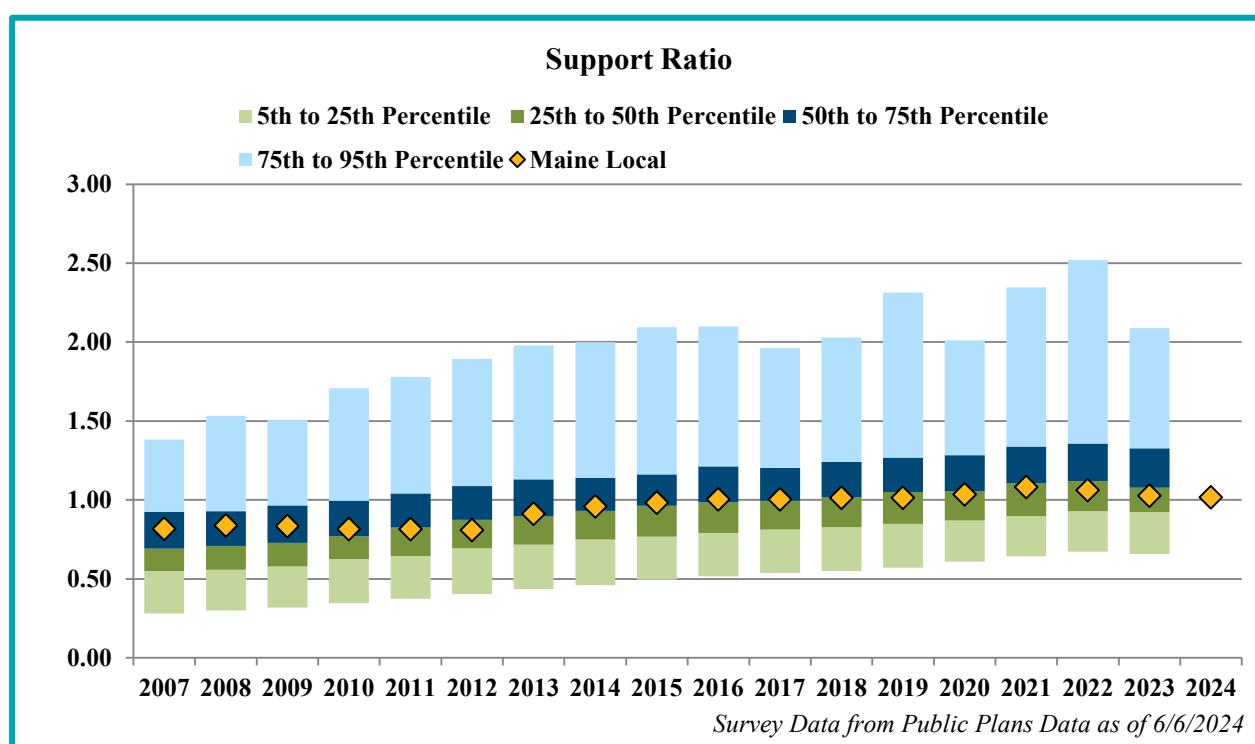
**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE

Support Ratio

Another commonly used measure of plan maturity is the support ratio, the ratio of in-pay and inactive members, or those receiving benefits or entitled to a deferred benefit, to the number of active members, or those currently accruing benefits in the plan. The greater this ratio, the more mature a plan is considered, with the proportion of the plan's liability represented by actives generally declining.

The chart that follows shows the support ratio over time for the Plan compared to the Public Plans Data database.



The gold diamonds in this chart show that the Plan's support ratio was relatively stable from 2007 through 2012 at just over 0.80 and has since been generally increasing, with the current ratio as of FY 2024 being approximately 1.02. However, relative to the universe of public plans, the Plan's support ratio has dropped from around the 66th percentile in 2007 to approximately the 45th percentile in 2023. Given that this Plan has moved down relative to the universe of plans indicates that the Plan's rate of maturity has been a little slower than the universe of public plans as a whole.

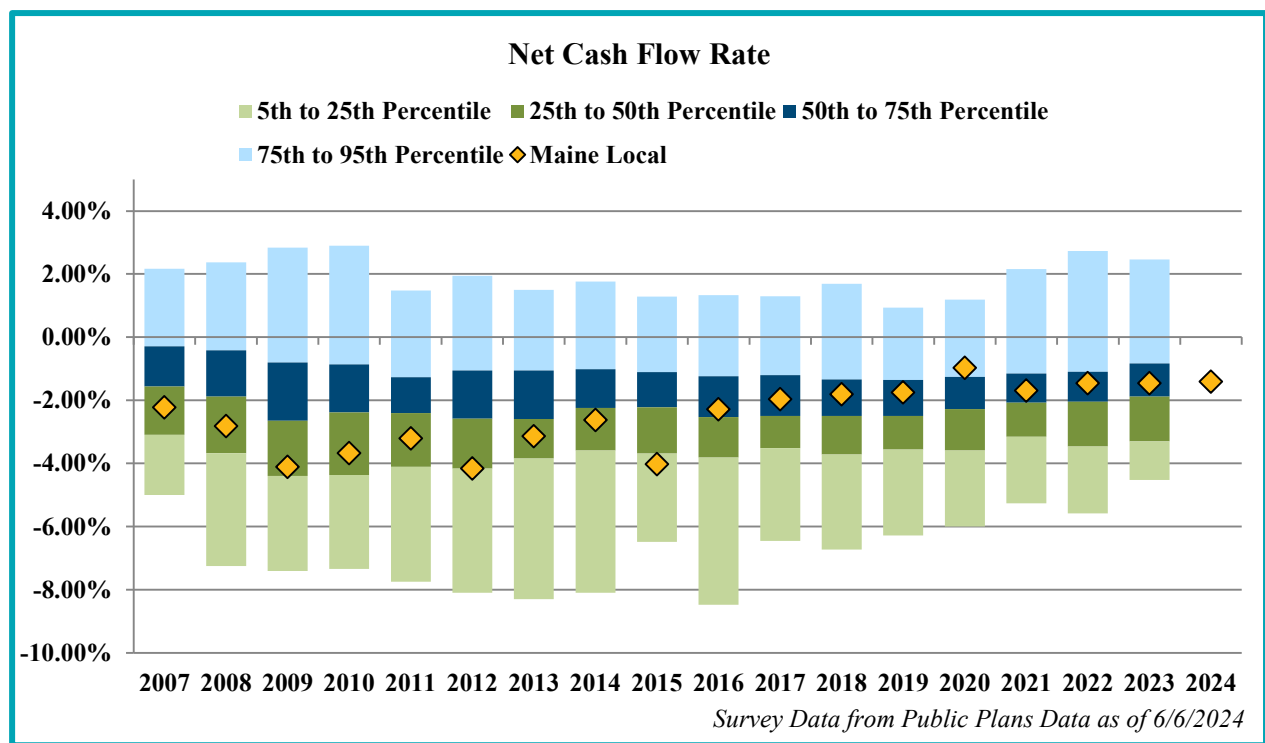
**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE

Net Cash Flow Ratio

Another measure of plan maturity is the ratio of the net cash flow (excluding investment returns) for a plan – contributions less benefits and expenses – divided by the market value of plan assets. When this ratio is significantly negative, a plan is very vulnerable to market declines. This vulnerability increases as this ratio becomes more negative.

The chart that follows shows that the Plan's net cash flow ratio has varied over this period but has generally trended gradually towards less negative rates in recent years, with the exception of a one-year jump in 2020. However, note that 2020 was an unusual year for contributions to the Plan with a number of PLDs entering the Consolidated Plan paying additional contributions resulting in the unusually low value for that year on this metric. In the latter half of this period, the Plan's net cash flow has transitioned from being more negative than the median plan in the universe of public plans to less negative than the median plan. This measure thus provides some indication that this Plan may be maturing at a pace slower than the typical public plan.



**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE

Assessing Future Risk

Assessing the future risk that the expected measurements produced by the actuarial valuations will deviate from the actual values over time is complex and can never be exactly known. However, to try to assist the Board in its utilization of this report, we have attempted to develop some basic assessments of this risk in the remainder of this section focusing on risks related to investment returns.

Pages 6-8 have additional detail on the baseline projection produced from this valuation. It is important to note that baseline projections, while valid, **are not going to occur** as experience never conforms exactly to assumptions every year. As discussed in the plan maturity section, as plans become more mature, it typically becomes more difficult for them to recover from market declines even when the average investment return over an extended period is equal to the expected return. As a demonstration of this, on the following pages we show two scenarios that are based on assuming varying returns in the future. For both of these scenarios, we based these varying return scenarios on assuming the returns for the next 20 years would equal what a portfolio invested 75% in the SP-500 index and 25% in the Bloomberg Aggregate bond index would have earned for these historical 20-year periods as a rough proxy for the Plan’s asset allocation.

Note that these scenarios reflect illustrative examples and are not intended to reflect future expectations regarding the volatility of the returns. They are instead provided to demonstrate the magnitude and range of possible volatility in returns and funded ratios as a result of volatility in investment returns.

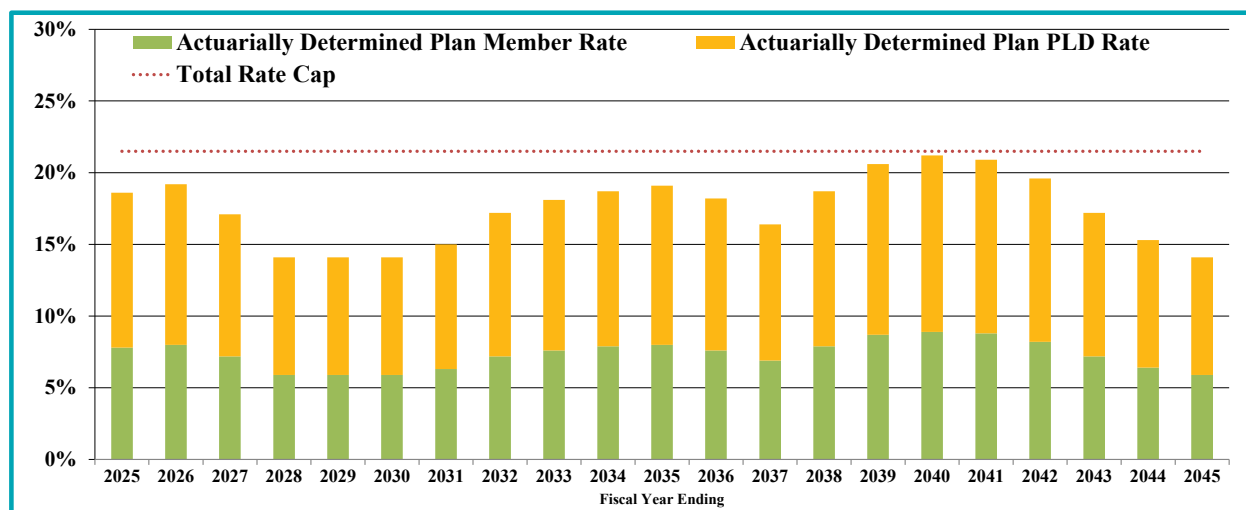
The first of these two scenarios is based on the 20-year period July 1, 1998 through June 30, 2018. The rates assumed for each year of this scenario are shown below.

FY	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Return	25.3%	17.9%	6.6%	-8.3%	-11.3%	2.8%	14.4%	6.4%	6.3%	17.0%
FY	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
Return	-8.1%	-18.1%	13.2%	24.0%	6.0%	15.3%	19.6%	6.0%	4.5%	13.3%

With varying annual earnings, it can be seen in the following chart that the volatility in the contributions is greater than in the baseline scenario.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE

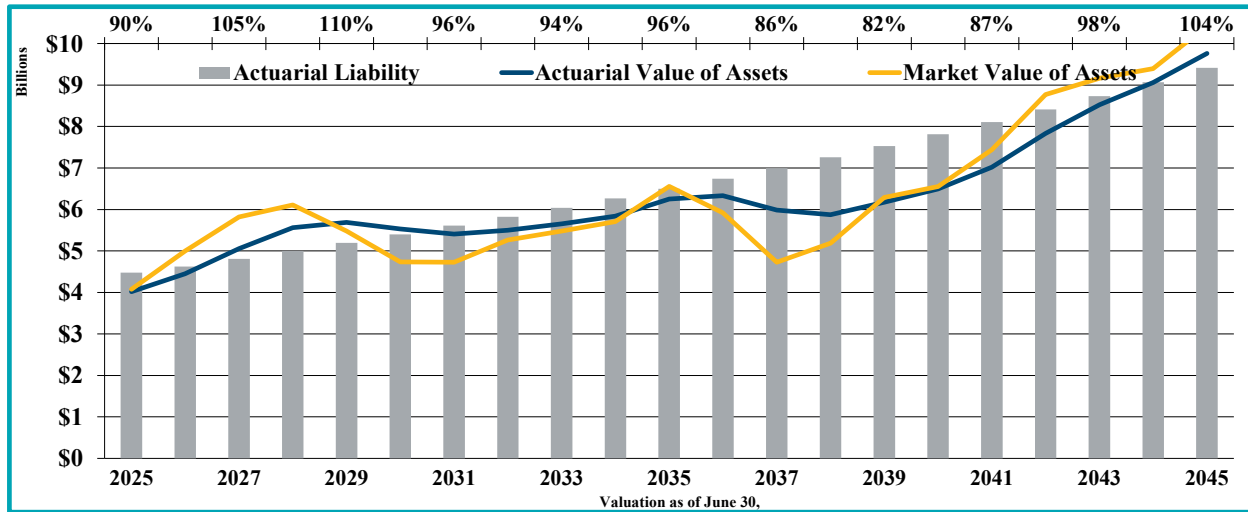


Under this scenario the total contributions are never projected to equal the Total Rate Cap and so at no time are temporary COLA reductions required. As such, in this scenario it is projected that 100% of the full COLA will be paid each year, the same as in the baseline scenario. Note that in this scenario, the assumed minimum contributions based on 100% of the normal cost result in higher contributions for FY 2028 through FY 2030 whereas in the baseline projection these minimums only came into effect for FY 2039 and FY 2045.

The funded ratio of the Plan is also more volatile in this scenario than in the baseline, as seen in the following graph based on this first illustrative varying returns scenario. Also note that while the average returns and the average contributions in this scenario are slightly greater than in the baseline, on average the Plan has a slightly lower funded ratio over the projection period under this scenario than in the baseline. This is due to the negative cash flows of the Plan previously discussed in this section. Note also that timing of contribution development and payment, as well as the combination of the amortization layers and the assumed minimum contributions, result in the Plan being funded over 100% at times, similar to what is seen in the baseline projection. These funded ratios are based on the actuarial values of assets and would vary were they based on the market values of assets.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE



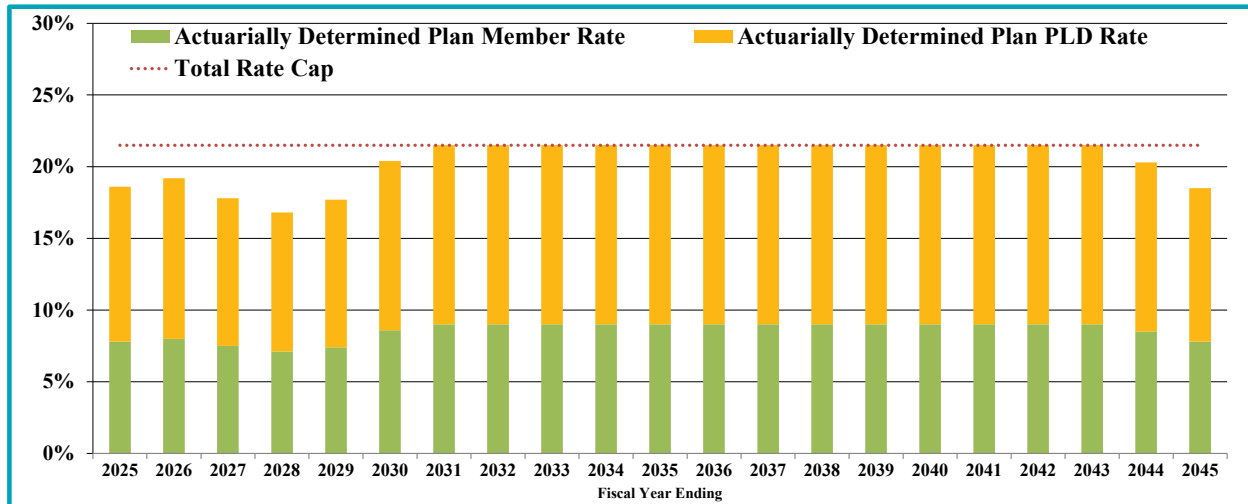
The second of these two scenarios is based on the 20-year period July 1, 1999 through June 30, 2019. The rates assumed for each year of this scenario are shown below.

FY	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Return	17.9%	6.6%	-8.3%	-11.3%	2.8%	14.4%	6.4%	6.3%	17.0%	-8.1%
FY	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
Return	-18.1%	13.2%	24.0%	6.0%	15.3%	19.6%	6.0%	4.5%	13.3%	10.7%

This second varying returns scenario produces a significantly higher average total contribution for the projection period than the other two scenarios, with an average total rate of 20.4% compared to an average 17.5% rate in the last scenario and 16.8% in the baseline scenario. In addition, this scenario results in 13 years in this forecast in which the projected final total contribution equals the Total Rate Cap. This is in contrast to no years in both the baseline and the prior scenarios. Also, in this scenario the assumed minimum contributions based on the total normal cost are below the otherwise calculated contributions in all years of the projection.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE

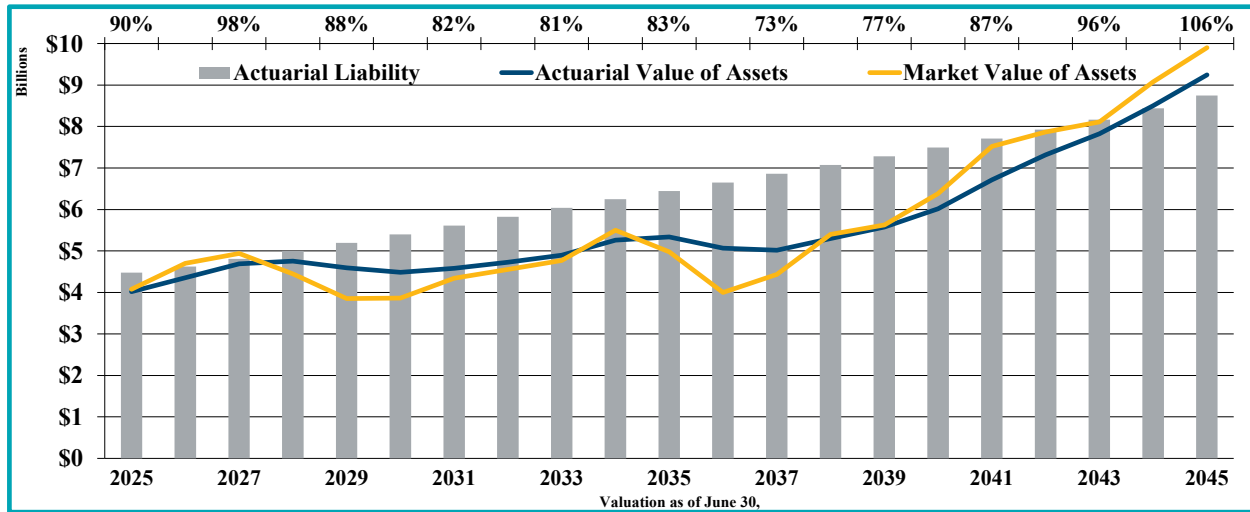


This scenario also differs from the prior two as it projects that under the provisions of this Plan, temporary reductions in the COLA will be required to ensure the adequate funding of the Plan. Under this scenario, there are 11 years in the projection period where the COLA would be reduced or eliminated under the provisions of this Plan. The average percentage of the full COLA projected to be paid in this scenario is 70% in contrast to 100% in both of the prior projections. However, under this scenario it is projected that COLAs would resume again at the end of the projection period, demonstrating the success of the risk-sharing provisions of this Plan in ensuring its financial soundness.

The funded ratio of the Plan is also more volatile in this second scenario than in the baseline, as seen in the following graph based on this second illustrative varying returns scenario. Similar to what is seen in the previous two projections, this scenario results in the Plan being funded up to 100% by the end of the projection period due to the timing of contribution development and payment as well as the combination of the amortization layers and the COLA cuts that are projected to occur. These funded ratios are based on the actuarial values of assets and would vary were they based on the market values of assets.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION II – RISK ASSESSMENT AND DISCLOSURE



In addition to demonstrating the volatility of these key valuation results of actuarially determined contributions and funded ratios, these varying return scenarios also illustrate that the magnitude of these results can also vary depending on the pattern of returns.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION III – ASSETS

Pension plan assets play a key role in the financial operation of plans and in the decisions that Trustees 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, PLD and member contribution rates, and the ultimate security of members' benefits.

The assets for all Defined Benefit (DB) Programs administered by MainePERS are invested together. These Programs are the State Employee and Teacher Retirement Program, the Judicial Retirement Program, the Legislative Retirement Program, and the Participating Local District (PLD) Retirement Program, including both the Consolidated Plan that is the subject of this valuation and the several Nonconsolidated PLDs. The assets of these Programs are entirely commingled for investment purposes, so the actuarial value of assets (AVA) for each of these Programs is developed by first developing it for the entire asset pool and then subsequently allocating that total AVA to each of the specific Programs.

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

- Disclosure of total MainePERS DB assets at June 30, 2024,
- Statement of changes in total MainePERS DB market values during the year,
- Development of the total MainePERS DB actuarial value of assets,
- Allocation of the total actuarial value to MainePERS DB Programs,
- Assessment of the total MainePERS DB investment performance, and
- Projection of expected cash flows for the Plan for the next 10 years.

Disclosure

The market value of assets (MVA) represents a “snap-shot” or “cash-out” value, which provides the principal basis for measuring financial performance from one year to the next. However, market values can fluctuate widely with corresponding swings in the marketplace, resulting in volatility in the resulting contributions if the unadjusted market value is used in the valuation process that develops the contributions. Therefore, a smoothed actuarial value of assets is developed for use in the valuation process and for evaluating the Plan's ongoing ability to meet its obligations. The actuarial value of the Plan's assets is developed by allocating the actuarial value of the total MainePERS DB assets to each Program. This section discloses the market and actuarial values of the MainePERS DB assets both in total and for each Program.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION III – ASSETS

Table III-1 that follows develops the change in the market value of assets for the total MainePERS DB assets during FY 2024.

Table III-1		
Changes in Market Value of Total MainePERS Defined Benefit (DB) Assets		
Market Value of Total MainePERS DB Assets – June 30, 2023	\$	19,032,500,469
<u>Additions</u>		
Contributions:		
Employer Contributions	\$	609,725,832
Member Contributions		253,072,755
Transfers		(276,351)
Total Contributions	\$	862,522,236
Investment Income:		
Net Appreciation (Depreciation) in Fair Value of Investments	\$	1,550,729,080
Interest on Bank Balances		3,318,765
Total Investment Income	\$	1,554,047,845
Investment Activity Expenses:		
Management Fees	\$	(131,872,981)
Investment Related Expense		(5,758,258)
Banking Fees		(36,109)
Total Investment Activity Expenses	\$	(137,667,348)
Net Income from Investing Activities	\$	1,416,380,497
Total Additions	\$	2,278,902,733
<u>Deductions</u>		
Retirement Benefits	\$	(1,200,976,761)
Disability Benefits		(25,883,395)
Survivor Benefits		(28,529,982)
Refunds		(37,506,149)
Administrative Expenses		(17,274,490)
Total Deductions	\$	(1,310,170,777)
<u>Total</u>		
Net Increase (Decrease)	\$	968,731,956
Market Value of Total MainePERS DB Assets – June 30, 2024	\$	20,001,232,425

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION III – ASSETS

Actuarial Value of Total MainePERS DB Assets

Table III-2 that follows develops the actuarial value of assets for the total MainePERS DB assets as of June 30, 2024 using the adopted actuarial valuation methodology.

Table III-2 Development of Actuarial Value of Total MainePERS Defined Benefit (DB) Assets as of June 30, 2024		
1.	Actuarial Value of Total MainePERS DB Assets at June 30, 2023	\$ 18,800,089,976
2.	Amount in (1) with Interest to June 30, 2024	20,022,095,824
3.	Employer and Member Contributions for FY 2024	862,522,236
4.	Interest on Contributions in (3), Assuming Received Uniformly throughout FY 2024	27,590,682
5.	Total Disbursements without Administrative Expenses for FY 2024	(1,292,896,287)
6.	Interest on Disbursements in (5), Assuming Payments made Uniformly throughout FY 2024	<u>(41,357,647)</u>
7.	Expected Value of Total MainePERS DB Assets at June 30, 2024 = (2) + (3) + (4) + (5) + (6)	\$ 19,577,954,808
8.	Actual Market Value of Total MainePERS DB Assets at June 30, 2024	20,001,232,425
9.	Excess of (8) Over (7)	<u>423,277,617</u>
10.	Actuarial Value of Total MainePERS DB Assets at June 30, 2024 = (7) + [33⅓% of (9)]	\$ 19,719,047,347

As discussed in the disclosure portion of this section, the actuarial value of assets for the Plan represents a “smoothed” value developed by the actuary to reduce, or eliminate, volatility in valuation results, particularly contribution rates, that could develop from short-term fluctuations in the market value of assets. Current actuarial methods employed in this Plan use an allocated portion of the total actuarial value of assets for the total MainePERS DB assets based on the Plan’s market value of assets to develop the actuarial value of assets for the Plan. The methodology for the total MainePERS DB assets sets the actuarial value of assets equal to the expected value of the actuarial value of assets plus one-third of the difference between the actual market value of assets and the expected actuarial value of assets. The expected value of the actuarial value of assets takes the prior year’s actuarial value of assets and adjusts it for contributions, disbursements, and expected interest earnings at the investment return assumption that was in effect for the previous year, 6.50% for this valuation. The previous table, Table III-2, illustrates the calculation of the actuarial value of assets for the total MainePERS DB assets as of June 30, 2024.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION III – ASSETS

Allocation of Actuarial Value of Assets to the Plan

The assets for the defined benefit (DB) Programs administered by MainePERS are commingled for investment purposes with the actuarial value of assets for the total assets allocated to the individual Programs on the basis of the market value of assets for each Program. An asset ratio (total MainePERS DB actuarial value of assets divided by total MainePERS DB market value of assets) is applied to the market value of assets attributable to each of the Programs to determine its actuarial value of assets as of the valuation date. The asset ratio derived in this June 30, 2024 valuation is 0.985892 ($\$19,719,047,347 \div \$20,001,232,425$). The allocation of actuarial value of the total MainePERS DB assets to each of the MainePERS DB Programs based on this asset ratio is shown in the following table.

Table III-3 Allocation of Actuarial Value of Total MainePERS DB Assets as of June 30, 2024		
Program	Market Value	Actuarial Value
Teachers	\$10,475,025,420	\$ 10,327,239,734
State (Regular & Special)	5,334,680,793	5,259,417,065
Judicial	89,203,285	87,944,771
Legislative	17,431,101	17,185,176
Participating Local Districts (Consolidated & Non-Consolidated)	<u>4,084,891,826</u>	<u>4,027,260,601</u>
Total	\$20,001,232,425	\$ 19,719,047,347

Investment Performance

The market value of assets for the total MainePERS DB assets returned a positive 7.43% during FY 2024. This is greater than the assumed return of 6.50% for FY 2024. The equivalent market value returns for the total MainePERS DB assets for FY 2023 and FY 2022 were positive 6.05% and negative 0.62%, respectively.

On an actuarial value of assets basis, the return for FY 2024 was a positive 7.26% for the total MainePERS DB assets. This return is less than the return on a market value basis but still greater than the 6.50% assumption in effect for FY 2024. Therefore, this return gave rise to an investment gain on the total MainePERS DB assets this year.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION III – ASSETS

Cash Flow Projections

Table III-4 Projection of Consolidated Plan Benefit Payments and Contributions		
FY Ending June 30,	Expected Benefit Payments	Total Expected Contributions
2025	\$ 270,123,000	\$ 171,460,000
2026	248,258,000	181,858,000
2027	257,105,000	184,913,000
2028	265,985,000	188,998,000
2029	275,919,000	192,141,000
2030	286,501,000	196,368,000
2031	298,408,000	201,769,000
2032	310,278,000	205,088,000
2033	321,778,000	210,728,000
2034	333,329,000	216,523,000

In Table III-4 above, we provide a projection of expected cash flows in and out of the Plan for the next 10 years for informational purposes. The Board may share these projections with its investment advisor for consideration of the gap shown between the cash expected to come into the Plan through PLD and member contributions and the cash expected to be paid out of the Plan to provide benefit payments.

The expected benefit payments in Table III-4 were developed using the data currently included in this valuation and on the assumption that the actuarial assumptions disclosed in Appendix D will be exactly met. Actual benefit payments will vary if members retire sooner or later than assumed, if salary increases and actual future post-retirement COLAs differ from those assumed, or if other assumptions differ from the actual experience seen. These benefit projections exclude any assumption about new Plan participants, whose experience will eventually lead to increased benefit payments. However, we do not feel this exclusion will materially impact the projections for the period shown.

For the purposes of this table of cash flows, as well as for all other liability calculations within this report, we have assumed that the member contribution rates for each Regular and Special Plan within the Plan will be developed and paid at the actuarially determined rates. In addition, these cash flows, with the exception of the FY 2025 rates, where we have assumed the rates adopted through the risk-sharing framework will be paid, again along with all other liability calculations within this report, are based on the assumption that the contributions made to the Plan will be the actuarially determined rates. In addition to these additional assumptions regarding the contributions that the Plan will receive, these cash flows are also developed based on the assumption that all valuation assumptions are exactly met, including an assumed 2.75% per year increase in covered payroll.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION III – ASSETS

Note that we expect the contribution rates that will actually be paid for FY 2026 and beyond will be those developed under the risk-sharing contribution methodology, which are modified versions of the actuarially determined rates rather than the actuarially determined rates themselves. We will continue to reflect the known adopted rates as they are developed, but at this time the unmodified actuarially determined contribution rates that are the basis of the risk-sharing contribution rates are the most reasonable to assume will be paid.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION IV – LIABILITIES

In this section, we present detailed information on Plan liabilities including:

- Disclosure of the Plan’s liabilities as of June 30, 2023 and June 30, 2024, and
- Statement of changes in these liabilities during the year.

Disclosure

Several types of liabilities are calculated and presented in this report. Each type is distinguished by the purpose for which the figures are ultimately used.

- **Present Value of Future Benefits (PVB):** Used for analyzing the overall financial obligations of the Plan, this represents the amount of money needed today to fully fund all future benefits of the Plan, assuming no new members, that active members continue to earn salary increases and accrue benefits under their current Plan provisions, and that all actuarial assumptions are exactly met, including the 6.50% per year investment return.
- **Actuarial Liability (AL):** Used for funding calculations and GASB disclosures, this liability is calculated by taking the PVB above and subtracting the value of accruals that are assigned to future years on a person-by-person basis. This offset is equal to the present value of future member contributions and future PLD normal cost contributions under an acceptable actuarial cost method. For this Plan and the other MainePERS DB Programs, the method used is referred to as the entry age normal (EAN) cost method, which is the only permitted actuarial cost method for GASB disclosures.
- **Present Value of Accrued Benefits (PVAB):** Used for communicating the liabilities for benefits accrued as of the valuation date.

Table IV-1 that follows discloses each of these liabilities for the current and prior years’ valuations. With respect to the actuarial liability and the present value of accrued benefits, a subtraction of the appropriate value of the Plan’s assets yields, for each respective type, a net surplus or an unfunded liability. For the PVB measure, it is compared to the market value of assets plus the expected future value of contributions to the Plan.

We note that none of the liabilities presented in this report is an appropriate measure of a settlement liability.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION IV – LIABILITIES

The liability measures are compared to appropriate measures of assets, along with the expected future value of member and PLD contributions where appropriate. The difference between the liability measure and the anticipated resources indicates either an expected shortfall or an expected surplus related to that liability measure. The surplus or shortfall on the present value of benefits (PVB) measure is zero due to the Plan's risk-sharing framework where all costs are paid 58% by the PLD and 42% by the Member.

**Table IV-1
Disclosure of Liabilities**

	June 30, 2023	June 30, 2024
Present Value of Benefits (PVB)		
Active Member Benefits	\$ 2,540,507,510	\$ 2,738,509,442
Retired, Disabled, Survivor, and Beneficiary Benefits	2,292,892,614	2,497,927,141
Terminated Vested Benefits	176,594,216	181,430,816
Terminated Nonvested Benefits	<u>30,282,025</u>	<u>31,272,980</u>
Total PVB	\$ 5,040,276,365	\$ 5,449,140,379
 Market Value of Assets (MVA)	 \$ 3,846,717,708	 \$ 4,077,975,617
Future Member and PLD Contributions*	1,193,558,657	1,371,164,762
Projected (Surplus)/Shortfall	<u>0</u>	<u>0</u>
Total Resources	\$ 5,040,276,365	\$ 5,449,140,379
 Actuarial Liability (AL)		
Present Value of Benefits (PVB)	\$ 5,040,276,365	\$ 5,449,140,379
Present Value of Future Normal Costs (PVFNC)	<u>874,463,564</u>	<u>970,913,477</u>
Actuarial Liability (AL = PVB – PVFNC)	\$ 4,165,812,801	\$ 4,478,226,902
Actuarial Value of Assets (AVA)	<u>3,799,744,503</u>	<u>4,020,441,970</u>
Net (Surplus)/Unfunded (AL – AVA)	\$ 366,068,298	\$ 457,784,932
 Present Value of Accrued Benefits (PVAB)		
Present Value of Benefits (PVB)	\$ 5,040,276,365	\$ 5,449,140,379
Present Value of Future Benefit Accruals (PVFBA)	<u>1,323,196,080</u>	<u>1,459,077,996</u>
Accrued Liability (PVAB = PVB – PVFBA)	\$ 3,717,080,285	\$ 3,990,062,383
Market Value of Assets (MVA)	<u>3,846,717,708</u>	<u>4,077,975,617</u>
Net (Surplus)/Unfunded (PVAB – MVA)	\$ (129,637,423)	\$ (87,913,234)

* Determined to be the amount to fully fund the PVB.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

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 funding liability would be if the System invested its assets in such a portfolio. As of June 30, 2024, we estimate that a portfolio composed only of US Treasury securities would have an expected return of 4.44% compared to the System's discount rate of 6.50%, and the LDROM would be \$6.0 billion compared to the Actuarial Liability of \$4.5 billion. The \$1.5 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 Table IV-1 is expected to change at each subsequent valuation. The components of these changes, depending upon which liability is analyzed, can include:

- New Plan members since the last valuation
- Benefits accrued since the last valuation
- Plan amendments changing benefits since the last valuation
- Passage of time, which adds interest to the prior liability
- Benefits paid to members since the last valuation
- Members retiring, terminating, or dying at rates different than expected since the last valuation
- Salaries changing at rates different than expected since the last valuation
- A change in actuarial assumptions since the last valuation
- A change in the actuarial cost method since the last valuation

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION IV – LIABILITIES

Unfunded liability measurements will change because of all of the above, as well as due to changes in the Plan's asset measurements resulting from:

- PLD or member contributions being different than expected (including actual contributions developed under the risk-sharing framework deviating in aggregate from the actuarially determined contributions)
- Investment earnings being different than expected
- A change in the method used to measure the Plan's assets in developing the unfunded liability measure since the last valuation

In each valuation, we report on those elements of change in the Plan's liability measures that are of particular significance, potentially affecting the long-term financial outlook of the Plan. In Table IV-2 that follows, we present key changes in the Plan's liability measures since the last valuation.

	Table IV-2 Present Value of Future Benefits	Actuarial Liability	Present Value of Accrued Benefits
Liability Measurement – June 30, 2023	\$ 5,040,276,365	\$ 4,165,812,801	\$ 3,717,080,285
Liability Measurement – June 30, 2024	<u>5,449,140,379</u>	<u>4,478,226,902</u>	<u>3,990,062,383</u>
Liability Measurement Increase/ (Decrease) Due to:	\$ 408,864,014	\$ 312,414,101	\$ 272,982,098
Plan Amendment	\$ 863,779	\$ 863,779	\$ 863,779
Assumption Change	0	0	0
Actuarial (Gain)/Loss	N/C	\$ 150,622,559	N/C
Benefits Accumulated and Other Sources	\$ 408,000,235	\$ 160,927,763	\$ 272,118,319

N/C = Not calculated

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION V – CONTRIBUTIONS

In this section, we present detailed information on PLD and member contribution rates as developed in this June 30, 2024 valuation for the Plan, including:

- Development of Actuarially Determined Plan Total Rate for the Plan as a whole, including the Actuarially Determined Plan Normal Cost Rate and the Actuarially Determined Plan UAL Amortization Rate,
- Summary of the Plan-Specific Normal Cost Rates by each Regular and Special Plan, and
- Description of risk-sharing framework and how resulting contribution rates are developed.

Note that the actual rates that will be paid in FY 2026 based on this June 30, 2024 valuation are specific to each Regular and Special Plan and include a PLD rate for each Plan as well as a single member rate for each Special Plan and two member rates for each Regular Plan, where the Regular Plan member rates vary based on the applicable normal retirement age. These actual rates are developed in the risk-sharing framework process and are not contained within this report, but a general outline of this process is included as the last element of this section of this report for informational purposes.

In addition, any PLDs that have Initial Unpooled Unfunded Actuarial Liability (IUUAL) balances also make additional contributions to repay these balances in addition to their PLD contribution rates.

Description of Rate Components

The rate components described here are the Actuarially Determined Plan Rates, based on the aggregation of all of the Regular and Special Plans in the Plan, and the Plan-Specific Normal Cost Rates that are anticipated to be the basis from which the risk-sharing contribution rates that will actually be paid by the PLDs and members in FY 2026 will be determined.

Actuarially Determined Plan Total Rate

The Actuarially Determined Plan Total Rate is developed based on the entirety of the Consolidated Plan and consists of two elements: the Actuarially Determined Plan Normal Cost Rate and the Actuarially Determined Plan UAL Amortization Rate.

For each of the Regular and Special Plans in the Consolidated Plan, an individual entry age normal cost rate is determined for each active member. The normal cost is determined by the following steps. First, an individual normal cost rate is determined by taking the value, as of entry age into a Plan, of each active member's projected future benefits. Second, this value is then divided by the value, also at entry age, of the member's expected future salary. These rates are then multiplied by each member's salary as of the valuation date to get the total normal cost dollars as of the valuation date for that Plan. These individual amounts for each Regular and Special Plan are then added to get the total normal cost dollars for the Plan and then divided by the total payroll for the Plan to get the Actuarially Determined Plan Normal Cost Rate.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION V – CONTRIBUTIONS

The pooled UAL under the entry age normal cost method equals the present value, at the time of valuation, of the future benefit payments less the present value of future contributions plus current assets. Under the Consolidated Plan, the Actuarially Determined Plan UAL Amortization Rate is calculated for the Consolidated Plan in total based on the pooled UAL being amortized over a 20-year period commencing with the June 30, 2015 valuation date and any layers of pooled UAL arising after that date being amortized over individual 20-year periods. These amortizations use a level percentage of pay method with payroll assumed to increase at 2.75% per year. The amortization payment thus derived for the valuation year is then divided by the total payroll to develop the Actuarially Determined Plan UAL Amortization Rate.

As a reminder, these rates are not paid by any PLD or member and instead determine the level of the contributions in aggregate that needs to be paid into the Plan. The risk-sharing framework allocates this cost level, with some adjustments, based on the relative rates of the Plan-Specific Normal Cost Rates and determines the rates that will be paid by every PLD and member in the Consolidated Plan based on each member's specific Plan.

Plan-Specific Normal Cost Rates

Following the procedure outlined above to develop the total normal cost dollars for each specific Regular and Special Plan, these Plan-Specific values are then divided by the total payroll for each specific Plan to get the Plan-Specific Normal Cost Rate for that Plan. This procedure is followed for each Regular and Special Plan in the Consolidated Plan.

IUUAL Payments

PLDs that either enter the Consolidated Plan with liabilities in excess of their assets or make Plan changes resulting in individual liability amounts are required to make additional contributions. They make payments on their Individual Unpooled Unfunded Actuarial Liability (IUUAL) until their IUUAL is fully paid off. IUUAL payments are made as specific dollar amounts on a schedule rather than as a rate applied to payroll. The System now treats future IUUAL payments as receivable contributions that are already included in the asset values provided and so are not separately identified in the Section I summary tables.

Contribution Calculations

Table V-1 below presents and compares the Actuarially Determined Plan Total Rate for the Plan in aggregate, as well as its two components, as developed in this and last years' valuations.

Table V-1		
Actuarially Determined Plan Total Rates		
Valuation Date	June 30, 2023	June 30, 2024
Actuarially Determined Plan Normal Cost Rate	14.3%	14.3%
Actuarially Determined Plan UAL Amortization Rate	4.3%	4.9%
Actuarially Determined Plan Total Rate	18.6%	19.2%

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION V – CONTRIBUTIONS

The remainder of this section details the calculation of the above rates, including developing the Actuarially Determined Plan UAL Amortization Rate from its components and developing the Plan-Specific Normal Cost Rates for each Regular and Special Plan in the Consolidated Plan as well as the Actuarially Determined Plan Normal Cost Rate for the Plan in aggregate.

Table V-2 shows the development of the Plan-Specific Normal Cost Rates for each Regular and Special Plan as well as the Actuarially Determined Plan Normal Cost Rate. As of June 30, 2023, there are no remaining actives in the Special 4N Plan.

Table V-2 Development of Plan-Specific Normal Cost Rates and Actuarially Determined Plan Normal Cost Rate					
Specific Plan	Plan-Specific				
	Initial Normal Cost Dollars	Valuation Salary	Normal Cost Rate	Total Salary	Total Normal Cost Dollars
Regular AC	\$ 62,246,568	\$ 479,709,705	13.0%	\$ 522,417,778	\$ 67,914,311
Regular AN	4,711,427	40,724,082	11.6%	44,129,734	5,119,049
Regular BC	188,686	2,930,088	6.4%	3,173,259	203,089
Special 1C	5,652,114	31,200,853	18.1%	33,112,818	5,993,420
Special 2C	11,678,015	74,821,855	15.6%	80,206,110	12,512,153
Special 3C	32,663,602	193,489,817	16.9%	204,602,947	34,577,898
Special 4C	1,443,389	8,707,238	16.6%	9,235,387	1,533,074
Special 1N	166,381	1,005,381	16.5%	1,167,143	192,579
Special 2N	29,706	210,138	14.1%	224,096	31,598
Special 3N	1,538,712	10,507,363	14.6%	11,139,152	1,626,316
Total for Plan in Aggregate				\$ 909,408,424	\$ 129,703,487
Actuarially Determined Plan Normal Cost Rate					14.3%

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION V – CONTRIBUTIONS

Table V-3 below provides the development of the 4.9% UAL Amortization Rate as of June 30, 2024 that was shown in Table V-1 for the Consolidated Plan in aggregate.

Table V-3 Derivation of Actuarially Determined Plan UAL Amortization Rate		
1. Actuarial Liability (AL)	\$	4,478,226,902
2. Actuarial Value of Assets (AVA)		<u>4,020,441,970</u>
3. Unfunded Actuarial Liability (UAL)	\$	457,784,932
4. Remaining Balances of Prior Amortization Bases		
a. Original UAL Amount	\$	233,470,342
b. 2016 (Gain)/Loss Base		99,624,504
c. 2017 (Gain)/Loss Base		8,822,287
d. 2018 (Gain)/Loss Base		(69,945,770)
e. 2019 (Gain)/Loss Base		19,453,731
f. 2020 (Gain)/Loss Base		11,992,362
g. 2021 (Gain)/Loss Base		(7,288,991)
h. 2022 (Gain)/Loss Base		25,797,368
i. 2023 (Gain)/Loss Base		30,622,397
j. 2024 (Gain)/Loss Base		<u>105,236,702</u>
k. Sum of the Bases	\$	457,784,932
5. UAL Amortizations		
a. Original UAL Amount 11 Years	\$	26,035,513
b. 2016 (Gain)/Loss Base 12 Years		10,355,299
c. 2017 (Gain)/Loss Base 13 Years		860,637
d. 2018 (Gain)/Loss Base 14 Years		(6,441,310)
e. 2019 (Gain)/Loss Base 15 Years		1,699,672
f. 2020 (Gain)/Loss Base 16 Years		998,401
g. 2021 (Gain)/Loss Base 17 Years		(580,443)
h. 2022 (Gain)/Loss Base 18 Years		1,971,603
i. 2023 (Gain)/Loss Base 19 Years		2,252,848
j. 2024 (Gain)/Loss Base 20 Years		<u>7,472,535</u>
k. Sum of the Amortization Payments	\$	44,624,755

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION V – CONTRIBUTIONS

Table V-3 (continued)		
Derivation of Actuarially Determined Plan UAL Amortization Rate		
6. Covered Payroll	\$	909,408,424
7. UAL Amortization Rate		
a. Original UAL Amount 11 Years		3.0%
b. 2016 (Gain)/Loss Base 12 Years		1.1%
c. 2017 (Gain)/Loss Base 13 Years		0.1%
d. 2018 (Gain)/Loss Base 14 Years		(0.7%)
e. 2019 (Gain)/Loss Base 15 Years		0.2%
f. 2020 (Gain)/Loss Base 16 Years		0.1%
g. 2021 (Gain)/Loss Base 17 Years		(0.1%)
h. 2022 (Gain)/Loss Base 18 Years		0.2%
i. 2023 (Gain)/Loss Base 19 Years		0.2%
j. 2024 (Gain)/Loss Base 20 Years		0.8%
k. Sum of the UAL Amortization Rates		4.9%

The Actuarially Determined Plan Normal Cost Rate developed in Table V-2 is combined with the Actuarially Determined Plan UAL Amortization Rate developed in Table V-3 to determine the Actuarially Determined Plan Total Rate. This Actuarially Determined Plan Total Rate, along with the Plan-Specific Normal Cost Rates, will be used in the risk-sharing framework to develop the risk-sharing contribution rates that will actually be paid by the PLDs and members in FY 2026. Since they are developed in that process outside of the actuarial valuations, these actual rates are not included in this report, but for informational purposes, this section is concluded with a general outline of this methodology.

Risk-Sharing Contribution Methodology

As mentioned previously, the actual FY 2026 rates will be developed based on the results of this June 30, 2024 valuation, reflecting application of the risk-sharing contribution methodology. Details of the application of this methodology are determined by the Board, but we have provided a general description of this methodology to communicate how it operates. This basic information is thus useful for informational purposes as it can be provided in advance of the full rates that will be developed and provided under separate cover after the specifics of the methodology for this year are finalized and adopted by the Board.

Note that while this section provides a summary of the principles of the risk-sharing contribution methodology adopted by the Board, the specific details of the methodology to be used in developing the FY 2026 rates from the results of this June 30, 2024 actuarial valuation have not yet been finalized, and thus, any or all details of the methodology as outlined here may change prior to finalization and adoption.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION V – CONTRIBUTIONS

Most of the participating local districts in the State of Maine participate in this Consolidated Plan for PLDs. The Plan offers a number of specific Plan options from which each PLD can choose, with each option having its own specific contributions associated with it to be paid by both the member and the PLD. Under the risk-sharing contribution methodology, both the member contributions and the PLD contributions will be paid as rates that are set annually based on the actuarial valuation process. The June 30, 2018 valuation setting the Fiscal Year 2020 contribution rates was the first valuation used to develop member and PLD contribution rates based on this risk-sharing methodology. Prior to the 2018 valuation, the member rates were static and set by the Board, while the PLD rates were established using the corridor funding methodology. This June 30, 2024 valuation will be used as the basis to determine the Fiscal Year 2026 contribution rates for members and PLDs that will be paid.

Under the Plan's risk-sharing contribution methodology, PLD and member rates are developed for each Regular and Special Plan within the Plan. First, Plan-Specific Normal Cost Rates are developed for each Plan and then combined to develop the Actuarially Determined Plan Normal Cost Rate, which is the aggregate normal cost rate for the Plan as a whole. These rates represent the cost of providing the next year's benefits. The Actuarially Determined Plan UAL Amortization Rate is also developed based on the amortization of the aggregated UAL. The Actuarially Determined Plan Total Rate is then determined as the sum of the Actuarially Determined Plan Normal Cost Rate and the Actuarially Determined Plan UAL Amortization Rate. This Actuarially Determined Plan Total Rate is then allocated to each Regular and Special Plan relative to their Plan-Specific Normal Cost Rates. The resulting rate for each individual Regular and Special Plan is then allocated between the rate to be paid by the PLD and the rate to be paid by the members. In the case of the three Regular Plans, the process further develops distinct Plan-Specific member rates based on whether a member is covered by the provisions with an age 60 normal retirement age or an age 65 normal retirement age.

The implementation of the risk-sharing framework to develop the contribution rates to be paid based on each valuation includes further refinements based on details adopted by the Board for implementation in that specific year, which include maximum rates and phasing-in of changes in rates from prior years. The Board considers factors specific to the Plan in aggregate as well as the resulting Plan-Specific rates in determining the refinements of the implementation for each year.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION VI – FINANCIAL DISCLOSURE INFORMATION

This section contains financial disclosure information regarding the Plan developed under a number of accounting standards and guidance.

First, for informational purposes, we show the Plan’s funded status under the Financial Accounting Standards Board (FASB) ASC Topic 960, which discloses how the market value of assets would compare to accrued liabilities if contributions were to stop and accrued benefit claims had to be satisfied as of the valuation date. 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 all provisions of the Consolidated Plan were to terminate. We have prepared the following exhibit in this section based on FASB ASC Topic 960:

- Table VI-1: Accrued Benefits information

The Governmental Accounting Standards Board (GASB) Statement Nos. 67 and 68 establish standards for disclosure of pension information by public employee retirement systems (PERS) and governmental employers in financial statements, notes to financial statements, and supplementary information. We have prepared the following exhibits reflecting provisions of GASB Statement Nos. 67 and 68:

- Table VI-2: Schedule of Changes in Net Pension Liability and Related Ratios
- Table VI-3: Sensitivity of Net Pension Liability to Changes in Discount Rate
- Table VI-4: Schedule of Employer Contributions
- Table VI-5: Average Expected Remaining Service Lives

A summary of the terminology used in GASB Statement Nos. 67 and 68 is provided in Appendix E of this report. Note that while much of the information provided in this report under GASB No. 67 is also utilized in GASB No. 68, Table VI-5 included in this section is only applicable to GASB No. 68.

Finally, we have also developed disclosure information in this section based on additional guidance relating to the Annual Comprehensive Financial Reports (ACFR) of PERS provided by the Government Finance Officers Association (GFOA) in their publication, *Governmental Accounting, Auditing, and Financial Reporting* (GAAFR). We have prepared the following exhibits reflecting guidance in the GAAFR:

- Table VI-6: Analysis of Financial Experience
- Table VI-7: Schedule of Funded Liabilities by Type

The present value of accrued benefits, the total pension liability (GASB 67/68), and the actuarial liability (GAAFR) disclosures in this section are all determined assuming that the Plan is ongoing and participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions. Liabilities as of June 30, 2024 are discounted at the assumed valuation interest rate of 6.50% per annum in all of these disclosures.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION VI – FINANCIAL DISCLOSURE INFORMATION

Table VI-1 below includes the relevant amounts as of June 30, 2023 and June 30, 2024 as well as a reconciliation between the two dates under FASB ASC Topic 960.

Table VI-1 Accrued Benefits Information		
	June 30, 2023	June 30, 2024
FASB ASC Topic 960 Basis		
1. Present Value of Benefits Accrued to Date (PVAB)		
a. Members Currently Receiving Payments	\$ 2,292,892,614	\$ 2,497,927,141
b. Terminated Vested Members	176,594,216	181,430,816
c. Terminated Nonvested Members	30,282,025	31,272,980
d. Active Members	<u>1,217,311,430</u>	<u>1,279,431,446</u>
e. Total PVAB	\$ 3,717,080,285	\$ 3,990,062,383
2. Assets at Market Value (MVA)	<u>3,846,717,708</u>	<u>4,077,975,617</u>
3. Unfunded Present Value of Accrued Benefits, But Not Less Than Zero	\$ 0	\$ 0
4. Ratio of MVA to PVAB (2)/(1)(d)	103.5%	102.2%
Change in Present Value of Benefits Accrued to Date during FY 2024		
Increase/(Decrease) during Year Attributable to:		
Passage of Time		\$ 234,406,429
Benefits Paid		(225,200,272)
Assumption Changes		0
Plan Changes		863,779
Benefits Accrued, Other Gains/Losses		<u>262,912,162</u>
Net Increase/(Decrease)		\$ 272,982,098

Table VI-2 that follows shows the changes in the total pension liability (TPL), the Plan's fiduciary net position (FNP) (i.e., fair value of the Plan's net assets), and the net pension liability (NPL) during the measurement year ending June 30, 2024, as well as related ratios calculated under the provisions of GASB Statement No. 67 for the Plan.

As of the June 30, 2024 valuation, the fiduciary net position for this Plan was projected to be available to make all projected future benefit payments for current Plan members. As such, the long-term expected rate of return on the Plan's investments was applied to all periods of projected benefit payments in determining the total pension liability under GASB Nos. 67 and 68. The projection of cash flows used to determine the discount rate assumed that the member and PLD contribution rates will be at the actuarially determined rates in aggregate.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION VI – FINANCIAL DISCLOSURE INFORMATION

Table VI-2 Schedule of Changes in Net Pension Liability and Related Ratios FY 2024	
<u>Total Pension Liability (TPL)</u>	
Service Cost (SC)	\$ 118,728,433
Interest (includes Interest on SC)	267,399,602
Changes of Benefit Terms	863,779
Differences Between Actual and Expected Experience	150,622,559
Changes of Assumptions	0
Benefit Payments, including Refunds of Member Contributions	(225,200,272)
Net Change in TPL	\$ 312,414,101
Beginning of Year (BOY) TPL	<u>4,165,812,801</u>
End of Year (EOY) TPL	<u>\$ 4,478,226,902</u>
<u>Plan Fiduciary Net Position (FNP)</u>	
PLD (Employer) Contributions	\$ 98,715,699
Member Contributions	72,650,710
Transfers	57,992
Net Investment Income	288,525,441
Benefit Payments, including Refunds of Member Contributions	(225,200,272)
Administrative Expenses	(3,491,661)
Net Change in FNP	\$ 231,257,909
BOY FNP	<u>3,846,717,708</u>
EOY FNP	<u>\$ 4,077,975,617</u>
EOY Net Pension Liability (NPL)	<u>\$ 400,251,285</u>
FNP as a Percentage of TPL	91.1%
Covered Payroll (Payroll)*	\$ 914,034,250
NPL as a Percentage of Payroll	43.8%

* For FY 2024

Notes to Schedule of Changes in Net Pension Liability and Related Ratios

None

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION VI – FINANCIAL DISCLOSURE INFORMATION

A 10-year schedule of changes in NPL and related ratios is to be included within the ACFR for PERS. However, based on GASB guidance, this 10-year history can be built one year at a time following implementation. We have shown only the current year of this *Schedule of Changes in Net Pension Liability and Related Ratios* above and believe that you can accumulate the individual years in the MainePERS ACFRs to show the full 10-year schedule. Notes to this schedule should be included for any factors significantly impacting the trends reported within the period shown in this schedule at that time. As of June 30, 2024, we have not included suggested information for such a note in the *Notes to Schedule of Changes in Net Pension Liability and Related Ratios* above. However, it is our expectation that the System's staff will make the final determination regarding any notes needed for this schedule, and we are available to provide any information they may need for this purpose.

Table VI-3 below illustrates the sensitivity of the net pension liability (NPL) to the discount rate. Changes in the discount rate affect the measurement of the total pension liability (TPL) for the Plan. Lower discount rates produce a higher TPL, and higher discount rates produce a lower TPL. Because the discount rate does not affect the measurement of assets, the percentage change in the Net Pension Liability (NPL) can be very significant for relatively small changes in the discount rate.

**Table VI-3
Sensitivity of Net Pension Liability to Changes in Discount Rate
FY 2024**

	1% Decrease 5.50%	Discount Rate 6.50%	1% Increase 7.50%
Total Pension Liability (TPL)	\$ 5,078,060,046	\$ 4,478,226,902	\$ 3,984,033,239
Plan Fiduciary Net Position (FNP)	<u>4,077,975,617</u>	<u>4,077,975,617</u>	<u>4,077,975,617</u>
Net Pension Liability (NPL)	<u>\$ 1,000,084,429</u>	<u>\$ 400,251,285</u>	<u>\$ (93,942,378)</u>
FNP as a Percentage of TPL	80.3%	91.1%	102.4%

A one percent decrease in the discount rate increases the TPL by approximately 13% and increases the NPL by approximately 150%. A one percent increase in the discount rate decreases the TPL by approximately 11% and decreases the NPL by approximately 123%.

Table VI-4 that follows provides information relating to the employer contributions for the Plan. Under GASB Statement No. 67, if an actuarially determined contribution (ADC) or a contractually or statutorily required contribution (CRC) is developed for a single employer or cost-sharing plan, the following schedule is required. For purposes of this schedule, an ADC is a contribution amount determined in accordance with Actuarial Standards of Practice, and a CRC is based on statutory or contractual requirements. Both should exclude any amounts to finance specific liabilities of individual employers of the Plan. If an ADC is available, the schedule of employer contributions should be developed on that basis. If there is no ADC, but there is a CRC, the schedule should be developed on that basis. Only if neither an ADC nor a CRC is developed can this schedule be omitted from the PERS's ACFR.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION VI – FINANCIAL DISCLOSURE INFORMATION

The Consolidated Plan’s risk-sharing contribution rates, which are the basis on which the FY 2024 contribution rates were determined, meet the definition of an ADC, so for this Plan, an additional year should be added to the schedule reflecting FY 2024 on that risk-sharing rate basis. Based on GASB guidance, a full 10 years of information should be shown in this schedule. We have shown only the current year of this *Schedule of Employer Contributions* below and believe that you can accumulate these in the MainePERS ACFR to show the full 10-year schedule.

Only the current year of the *Notes to Schedule of Employer Contributions* below needs to be included in the notes to this schedule. However, any factors that significantly affect trends in the *Schedule of Employer Contributions* at any point in the 10-year period should also be included in the notes to this schedule. As of June 30, 2024, we have not included such a note in the *Notes to Schedule of Employer Contributions* below. However, it is our expectation that the System’s staff will make the final determination regarding any notes needed for this schedule, and we are available to provide any additional information that they may need for this purpose.

Table VI-4 Schedule of Employer Contributions FY 2024	
Actuarially Determined Contribution (ADC)	\$ 98,715,699
Contributions in Relation to the ADC	98,715,699
Contribution Deficiency/(Excess)	<u>\$ 0</u>
Covered Payroll (Payroll)*	\$ 914,034,250
Contributions as a Percentage of Payroll	10.8%

* For FY 2024

Notes to Schedule of Employer Contributions

Valuation Date: June 30, 2022

Timing: June 30, 2024 rates based on the risk-sharing methodology calculated based on the 2022 actuarial valuation.

Key Methods and Assumptions Used to Determine Contribution Rates

Actuarial Cost
Method: Entry age normal

Asset Valuation
Method: Three-year smoothed market

Amortization
Method: Level percentage of payroll, closed periods. Cumulative UAL from prior to 2016 amortized over a 20-year period commencing with the June 30, 2015 valuation date. Subsequent layers of pooled UAL amortized over individual 20-year periods.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION VI – FINANCIAL DISCLOSURE INFORMATION

Discount Rate:	6.50%
Amortization Growth Rate:	2.75%
Price Inflation:	2.75%
Salary Increases:	2.75% plus merit component based on employee's years of service
Mortality:	112.1% and 118.5% of the 2010 Public Plan General Benefits-Weighted Healthy Annuitant Mortality Table, respectively, for males and females, using the 83.5% and 88.6% of the 2010 Public Plan General Benefits-Weighted Employee Mortality Table, respectively, for males and females, for ages prior to the start of the Healthy Annuitant Mortality Table, both projected from the 2010 base rates using MP_2020 model with an ultimate rate of 1.00% for ages 80 and under, grading down to 0.05% at age 95, and further grading down to 0.00% at age 115, along with convergence to the ultimate rates in the year 2027.

A complete description of the methods and assumptions used to determine contribution rates for the year ending June 30, 2024 can be found in the June 30, 2022 Actuarial Valuation Report.

Other Information

None

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION VI – FINANCIAL DISCLOSURE INFORMATION

Table VI-5 that follows is provided in this report at the request of MainePERS staff, showing the development of the average remaining service life for the Plan. GASB No. 68 requires some items be recognized by employers into pension expense over a period “equal to the average of the expected remaining service lives of all employees that are provided with pensions through the pension plan (active employees and inactive employees) determined as of the beginning of the measurement period.” For the current measurement year ending on June 30, 2024, these values are thus developed as of June 30, 2023. Note that the decision was made to use these averages based on rounding to the nearest whole year, so the values are thus shown as such.

Table VI-5 Average Expected Remaining Service Lives For Measurement Year Ending June 30, 2024			
Status	Total Expected Future Service	Count	Average Remaining Service Lives
Active Members	127,779	13,122	10
In-Pay Members	0	10,615	0
Terminated Vested Members	0	2,865	0
Inactives Due Refunds	0	10,467	0
Total Membership	127,779	37,069	3

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION VI – FINANCIAL DISCLOSURE INFORMATION

Table VI-6 below is a gain/loss analysis of the changes in the actuarial liability over the past six years, reflecting variances between actual experience and assumed experience for different kinds of risk as specified in the GFOA GAAFR.

Table VI-6 Analysis of Financial Experience Gain and Loss in Actuarial Liability During Fiscal Years Ended June 30 Resulting from Differences Between Assumed Experience and Actual Experience						
Type of Activity	Gain (or Loss) For Fiscal Year Ended June 30, 2019	Gain (or Loss) For Fiscal Year Ended June 30, 2020	Gain (or Loss) For Fiscal Year Ended June 30, 2021	Gain (or Loss) For Fiscal Year Ended June 30, 2022	Gain (or Loss) For Fiscal Year Ended June 30, 2023	Gain (or Loss) For Fiscal Year Ended June 30, 2024
Investment Income	\$ 17,765,627	\$ (24,747,551)	\$ 181,079,340	\$ 39,956,349	\$ 23,513,351	\$ 29,210,147
Combined Liability Experience	<u>(47,684,163)</u>	<u>6,552,650</u>	<u>(13,300,796)</u>	<u>(67,455,268)</u>	<u>(55,133,042)</u>	<u>(150,622,559)</u>
Gain (or Loss) during Year from Financial Experience	\$ (29,918,536)	\$ (18,194,901)	\$ 167,778,544	\$ (27,498,919)	\$ (31,619,691)	\$(121,412,412)
Non-Recurring Items	<u>0</u>	<u>(2,936,139)</u>	<u>(161,866,111)</u>	<u>(16,214,107)</u>	<u>(20,744,234)</u>	<u>(863,779)</u>
Composite Gain (or Loss) During Year	\$ (29,918,536)	\$ (21,131,040)	\$ 5,912,433	\$ (43,713,026)	\$ (52,363,925)	\$(122,276,191)

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

SECTION VI – FINANCIAL DISCLOSURE INFORMATION

Table VI-7 below compares the Plan's assets as of each valuation date shown to the Plan's actuarial liability divided into three separate groups: liabilities for contributions on deposit for current active members, liabilities for future benefits for inactive members, and employer-financed liabilities for current active members. This Schedule of Funded Liabilities by Type is used to assess funding progress based on what percentage of the liabilities for each of these groups the Plan's assets are sufficient to cover. Per GFOA guidance, this schedule is to include this assessment for the 10 most recent years, and notes to this schedule should be provided to explain any factors that affect the comparability of the data. We do not believe such a note is needed for the measurement year ending June 30, 2024, but it is our expectation that the System's staff will make the final determination regarding any notes needed for this schedule.

**Table VI-7
Schedule of Funded Liabilities by Type**

Aggregate Actuarial Liabilities for:					Portion of Actuarial Liabilities Covered by Reported Assets		
Valuation Date	(1) Active Member Contributions	(2) Retirees Vested Terms, Beneficiaries	(3) Active Members (Employer Financed Portion)	Reported Assets*	(1)	(2)	(3)
June 30,							
2024	\$ 679,073,755	\$ 2,710,630,937	\$ 1,088,522,210	\$ 4,020,441,970	100%	100%	58%
2023	639,673,576	2,499,768,855	1,026,370,370	3,799,744,503	100	100	64
2022	599,258,078	2,404,206,415	940,108,397	3,596,808,593	100	100	63
2021	561,690,222	2,230,697,428	926,628,764	3,388,697,748	100	100	64
2020	556,727,111	2,036,858,811	816,155,445	3,063,710,040	100	100	58
2019	521,610,261	1,927,683,260	809,526,084	2,918,585,814	100	100	58
2018	494,411,535	1,818,566,082	776,879,603	2,764,807,391	100	100	58
2017	472,362,260	1,721,058,286	823,240,175	2,609,806,231	100	100	51
2016	452,446,198	1,654,981,662	782,312,774	2,489,157,281	100	100	49
2015	438,925,747	1,543,532,803	738,477,459	2,433,186,149	100	100	61

* Reported assets are measured at actuarial value. Results would be different if the market value of assets were used. Despite the name of this exhibit, the liabilities presented in this schedule are not an appropriate measurement of the settlement liability of the Plan.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

Notes to Appendix A:

PLD Name: Name of the Participating Local District

PLD #: MainePERS Participating Local District Number

Regular Plan: Identifies the Regular Plan currently adopted by the PLD.

<u>Plan</u>	<u>Accrual Rate</u>
A:	2%
B:	1%

Special Plans: Identifies the Special Plans, if any, currently adopted by the PLD

<u>Plan</u>	<u>Eligibility</u>
1:	20 year, no age plan.
2:	25 year, no age plan.
3:	25 year, no age plan.
4:	Age 55 with 25 years of service.

COLA: Current COLA adopted by the PLD:

No = No COLA adopted for any current members

Yes = COLA adopted for all service of all current members

FO = COLA adopted for Future Service only for all current members, that is, the COLA is applicable only to the benefits attributable to service rendered after the Future Service COLA Date

FO-Limited = COLA adopted for Future Service only for only a subset of the PLD's current members

Entry Date: Date the PLD entered the Consolidated Plan for Participating Local Districts

FO COLA Date: The Future Service COLA Date, the date as of which COLA is applicable for members of the PLD covered by the FO COLA

Varied = There are multiple Future Service COLA Dates applicable to different groups of the PLD's current members

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Acton, Town of	0361	A	2	No	7/1/2016	
Alfred, Town of	0369	A		Yes	1/1/2019	
Androscoggin County	0067	A	1,2	Yes	7/1/1994	
Androscoggin Valley Council of Governments	0231	A		Yes	7/1/1996	
Anson-Madison Sanitary District	0365	A		Yes	7/1/2017	
Anson-Madison-Starks Ambulance Emergency Service	0389	A	3	Yes	11/1/2022	
Aroostook County	0106	A	3,4	Yes	7/1/1994	
Aroostook Waste Solutions	0267	A		Yes	7/1/1996	
Ashland, Town of	0418	A		No	7/1/2022	
Auburn Housing Authority	0145	A		Yes	7/1/1994	
Auburn Lewiston Airport	0256	A		Yes	7/1/1996	
Auburn Public Library	0043	A		FO	7/1/1996	7/1/2001
Auburn Water and Sewer District	0052	A		Yes	7/1/1994	
Auburn, City of	0027	A	2,3	Yes	7/1/1994	
Augusta Housing Authority	0351	A		Yes	4/1/2014	
Augusta, City of	0023	A	2,3	Yes	7/1/1994	
Baileyville, Town of	0069	A	3	Yes	7/1/1996	
Bangor Housing Authority	0288	A		Yes	7/1/1994	
Bangor Public Library	0022	A		Yes	7/1/1996	
Bangor Water District	0059	B		Yes	7/1/1996	
Bangor, City of	0020	A	2,3	Yes	7/1/1996	
Bar Harbor, Town of	0015	A	3,4	Yes	7/1/1995	
Bath Water District	0019	A		Yes	7/1/1994	
Bath, City of	0073	A	2,3	Yes	7/1/1996	
Baxter Academy of Technology And Sciences	0348	A		Yes	7/1/2013	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Belfast Water District	0132	A		Yes	7/1/1995	
Belfast, City of	0035	A	3	Yes	7/1/1996	
Belgrade, Town of	0383	A	3	Yes	7/1/2022	
Berwick Sewer District	0207	A		Yes	7/1/1994	
Berwick, Town of	0108	A	1	FO	7/1/1996	7/1/2008
Bethel, Town of	0246	A		Yes	7/1/1996	
Biddeford Housing Authority	0310	A		Yes	7/1/2007	
Biddeford, City of	0158	A	3	FO	7/1/2010	7/1/2010
Boothbay Harbor Sewer District	0363	A		Yes	1/1/2017	
Boothbay Harbor, Town of	0146	A	2	Yes	7/1/1996	
Boothbay Region Water District	0298	A	2	Yes	1/1/2002	
Bowdoinham Water District	0319	A		Yes	1/1/2009	
Brewer Housing Authority	0248	A		Yes	7/1/1994	
Brewer, City of	0063	A	2,3	Yes	7/1/1996	
Bridgton, Town of	0176	A	3	Yes	1/1/2020	
Brownville, Town of	0177	A		No	7/1/2010	
Brunswick Fire & Police	0292	A	1,3	FO	7/1/1997	7/1/1997
Brunswick Public Library Association	0273	A		FO	7/1/1995	7/1/1995
Brunswick Sewer District	0072	A		Yes	7/1/1996	
Brunswick, Town of	0042	A	2	FO	7/1/1995	7/1/2000
Buckfield, Town of	0344	A		No	1/1/2013	
Bucksport, Town of	0130	A	1,3,4	FO-Limited	7/1/1995	8/1/2022
Buxton, Town of	0370	A	2	Yes	9/1/2020	
Calais, City of	0036	A		FO	7/1/1996	7/1/1996

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Camden, Town of	0008	A	2	Yes	7/1/1994	
Cape Elizabeth Police	0317	A	3	Yes	7/1/2008	
Caribou Fire & Police	0208	A	3	FO-Limited	7/1/1996	4/1/2022
Carmel, Town of	0390	A		Yes	4/1/2023	
Carrabassett Valley, Town of	0277	A		FO	7/1/1994	7/1/1994
China, Town of	0235	A		FO	7/1/1996	7/1/2008
Clinton, Town of	0385	A	3	Yes	7/1/2022	
Coastal Counties Workforce	0301	A		Yes	7/1/2003	
Community Regional Charter School	0345	A		Yes	7/1/2013	
Community School Dist. #912	0252	A		Yes	7/1/1996	
Corinth, Town of	0377	A		Yes	1/1/2022	
Cornish, Town of	0393	A		No	5/1/2023	
Cumberland County	0005	A	2,3	Yes	7/1/1996	
Cumberland, Town of	0216	A	2,3	Yes	7/1/1995	
Damariscotta, Town of	0191	A		Yes	7/1/2011	
Danforth, Town of	0367	A		Yes	7/1/2017	
Dayton, Town of	0355	A	2	Yes	7/1/2014	
Dedham, Town of	0378	A	3	Yes	4/1/2022	
Dexter, Town of	0097	A		Yes	7/1/1996	
Dover-Foxcroft Water District	0137	A		Yes	7/1/1994	
Dover-Foxcroft, Town of	0167	A		No	7/1/1995	
Durham, Town of	0234	A		No	7/1/1996	
Eagle Lake Water & Sewer District	0274	A		Yes	7/1/1996	
East Millinocket, Town of	0054	A	2	Yes	7/1/1996	
Easton, Town of	0240	A		Yes	7/1/1994	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Eastport, City of	0007	A		Yes	7/1/2020	
Ecology Learning Center	0025	A		Yes	7/1/2020	
Eddington, Town of	0372	A	3	Yes	10/1/2020	
Eliot, Town of	0180	A	1	Yes	7/1/1994	
Ellsworth, City of	0013	A	2,4	Yes	7/1/1995	
Enfield, Town of	0001	A		Yes	1/1/2020	
Erschine Academy	0249	A		No	7/1/1994	
Fairfield, Town of	0260	A	3	Yes	7/1/1995	
Falmouth Memorial Library	0058	A		Yes	7/1/1996	
Falmouth, Town of	0087	A	3	Yes	7/1/1996	
Farmington Village Corporation	0118	A		No	7/1/1994	
Farmington, Town of	0100	A	1	Yes	7/1/1995	
Fort Fairfield Housing Authority	0275	A		FO	7/1/2002	7/1/1994
Fort Fairfield Utilities District	0131	A		Yes	7/1/1996	
Fort Fairfield, Town of	0017	A	3	Yes	7/1/2001	
Fort Kent, Town of	0091	A	1,2	FO	7/1/2019	7/1/2021
Franklin County	0102	A	2,3	Yes	7/1/2006	
Freeport, Town of	0142	A	2,3	FO	7/1/2003	7/1/2003
Frenchville, Town of	0098	A		No	7/1/1996	
Fryeburg, Town of	0149	A	1	No	1/1/2011	
Gardiner Water District	0221	A		No	7/1/1994	
Gardiner, City of	0024	A	3	FO	7/1/1996	7/1/2009
Glenburn, Town of	0174	A		Yes	7/1/1994	
Good Will Home Association	0347	A		Yes	7/1/2013	
Gorham Fire and Police	0334	A	3	Yes	7/1/2009	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Gorham, Town of	0133	A		Yes	7/1/1996	
Gould Academy	0205	A		No	7/1/1996	
Grand Isle, Town of	0312	B		Yes	7/1/2008	
Greater Augusta Utility District	0311	A		Yes	1/1/2008	
Greenville, Town of	0112	A	2	Yes	7/1/1996	
Hallowell, City of	0160	A	2	Yes	7/1/1996	
Hampden Water District	0183	A		Yes	7/1/1996	
Hampden, Town of	0151	A	1,3	FO	7/1/1996	7/1/2009
Hancock County	0056	A	2	Yes	7/1/1994	
Hancock, Town of	0353	A		Yes	7/1/2014	
Harpswell Coastal Academy	0350	A		Yes	1/1/2022	
Harpswell, Town of	0270	A		Yes	7/1/1994	
Harrison, Town of	0280	B		Yes	7/1/1994	
Hartland, Town of	0360	A		Yes	1/1/2016	
Hermon, Town of	0150	A	3	FO-Limited	7/1/1996	5/1/2023
Hodgdon, Town of	0215	A		FO	7/1/1996	7/1/2007
Holden, Town of	0338	A	3,4	Yes	7/1/2011	
Hollis, Town of	0386	A	3	Yes	9/1/2022	
Houlton Water Company	0026	A		Yes	7/1/1995	
Houlton, Town of	0010	A	3	Yes	7/1/1996	
Jackman Utility District	0294	A		Yes	7/1/1996	
Jay, Town of	0045	A	2	Yes	7/1/1994	
Kennebec County	0047	A	2	Yes	7/1/1995	
Kennebec Sanitary Treatment District	0220	A		FO	7/1/1995	7/1/1995
Kennebec Valley Council of Governments	0391	A		Yes	2/1/2023	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Kennebec Water District	0031	A		Yes	7/1/1996	
Kennebunk Light & Power District	0062	A		Yes	7/1/1994	
Kennebunk Sewer District	0201	A		FO	7/1/1994	7/1/2000
Kennebunk, Kennebunkport & Wells Water District	0255	A		FO	7/1/1996	7/1/1999
Kennebunk, Town of	0084	A	1	Yes	7/1/1996	
Kennebunkport, Town of	0188	A	1	FO	7/1/1996	7/1/2006
Kittery Water District	0012	A		Yes	7/1/1994	
Kittery, Town of	0014	A	1	Yes	7/1/1995	
Knox County Sheriffs and Corrections	0359	A	3	No	1/1/2016	
Lebanon, Town of	0181	A		Yes	7/1/1996	
Levant, Town of	0339	A		Yes	7/1/2011	
Lewiston Housing Authority	0154	A		Yes	7/1/1994	
Lewiston, City of	0048	A	3	Yes	7/1/1996	
Lewiston/Auburn 9-1-1	0291	A		Yes	7/1/1994	
Lewiston-Auburn Water Pollution Control Authority	0163	A		FO	7/1/1996	7/1/1996
Limerick, Town of	0375	A	3	No	10/1/2021	
Limestone Water & Sewer District	0029	A		Yes	7/1/2022	
Limestone, Town of	0245	A		Yes	7/1/2006	
Limington, Town of	0388	A	3	Yes	9/1/2022	
Lincoln & Sagadahoc Multi-County Jail Authority	0304	A	2	Yes	7/1/2004	
Lincoln Academy	0134	A		Yes	7/1/1994	
Lincoln County	0095	A	2	Yes	7/1/2004	
Lincoln County Sheriff's Office	0302	A	3	Yes	7/1/2003	
Lincoln Sanitary District	0219	A		Yes	7/1/1994	
Lincoln Water District	0092	A		Yes	7/1/1995	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Lincoln, Town of	0076	A	3	No	7/1/1996	
Linneus, Town of	0214	A		No	7/1/1996	
Lisbon Water Department	0243	A		FO	7/1/1996	7/1/2007
Lisbon, Town of	0103	A	3	Yes	7/1/1996	
Livermore Falls Water District	0032	A		Yes	7/1/1994	
Livermore Falls, Town of	0109	A	2	FO-Limited	7/1/1996	7/1/2021
Livermore, Town of	0392	A		No	2/1/2023	
Lovell, Town of	0276	A		Yes	7/1/1996	
Lubec Water District	0088	A		Yes	7/1/1996	
Lubec, Town of	0228	A		No	7/1/1996	
Lyman, Town of	0373	A		Yes	12/1/2020	
M.A.D.S.E.C.	0297	A		Yes	7/1/1999	
Madawaska Water District	0236	A		Yes	7/1/1994	
Madawaska, Town of	0082	A	3	Yes	7/1/1996	
Maine Academy of Natural Sciences	0346	A		Yes	7/1/2013	
Maine County Commissioners Association	0225	A		No	7/1/1996	
Maine Maritime Academy	0038	A		Yes	7/1/1996	
Maine Municipal Association	0055	A		Yes	7/1/2009	
Maine Municipal Bond Bank	0093	A		Yes	7/1/1995	
Maine Principals' Association	0105	A		Yes	7/1/1994	
Maine Public Employees Retirement System	0290	A		Yes	7/1/1994	
Maine School Management Association	0239	A		Yes	7/1/1994	
Maine School of Science and Mathematics	0352	A		Yes	7/1/2014	
Maine State Housing Authority	0169	A		Yes	7/1/2005	
Maine Turnpike Authority	0049	A		Yes	7/1/1994	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Maine Veterans' Home	0271	A		Yes	7/1/1994	
Maine Virtual Academy	0357	A		Yes	7/1/2015	
Mapleton, Castle Hill, & Chapman, Town of	0265	A		Yes	7/1/1996	
Mars Hill Utility District	0283	A		Yes	7/1/1994	
Mars Hill, Town of	0227	A		Yes	7/1/1996	
Mechanic Falls Sanitary District	0282	A		FO	7/1/1994	7/1/2002
Mechanic Falls, Town of	0114	A	2	Yes	7/1/1994	
Medway, Town of	0194	A		Yes	7/1/1996	
Mexico, Town of	0074	A	2	Yes	7/1/1996	
Midcoast Council of Governments	0343	A		Yes	7/1/2012	
Milford, Town of	0186	A		No	7/1/1996	
Millinocket, Town of	0003	A	3,4	Yes	7/1/1996	
Milo Water District	0238	A		No	7/1/1996	
Monmouth, Town of	0316	A	3	Yes	7/1/2008	
Monson, Town of	0184	A		No	7/1/1996	
Mount Desert Island Regional School District	0120	A		Yes	7/1/1996	
Mount Desert Water District	0300	A		Yes	7/1/2003	
Mount Desert, Town of	0016	A	2	Yes	7/1/1996	
Municipal Review Committee	0404	A		Yes	1/1/2024	
New Gloucester, Town of	0210	A	3	FO	7/1/1995	7/1/2007
Newport Water District	0313	A		Yes	7/1/2008	
Newport, Town of	0314	A	3	Yes	7/1/2008	
Newry, Town of	0387	A		Yes	7/1/2022	
North Berwick Water District	0308	A		Yes	7/1/2006	
North Berwick, Town of	0254	A	3	No	7/1/1996	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
North Yarmouth, Town of	0395	A	3	Yes	8/1/2023	
Northern Aroostook Regional Airport Authority	0374	A	2	Yes	7/1/2021	
Northern Oxford Regional Ambulance Service DBA Med-Care Ambulance	0403	A	3	Yes	1/1/2024	
Northern Oxford Regional Solid Waste Board	0354	A		Yes	7/1/2014	
Norway Water District	0136	A		FO	7/1/1995	7/1/2000
Norway, Town of	0125	A	2	FO	7/1/1996	7/1/2000
Oakland, Town of	0376	A	3	Yes	10/1/2021	
Ogunquit, Town of	0303	A	1	Yes	7/1/2004	
Old Orchard Beach, Town of	0140	A	3	Yes	7/1/2003	
Old Town Housing Authority	0262	A		FO	7/1/1994	7/1/1994
Old Town Water District	0079	A		FO	7/1/1994	1/1/2022
Old Town, City of	0111	A	2,3	No	7/1/1995	
Orland, Town of	0166	A		No	7/1/1996	
Orono, Town of	0061	A	3	FO	7/1/1996	7/1/2002
Orrington, Town of	0209	A	3	No	7/1/1995	
Otis, Town of	0364	A		Yes	7/1/2017	
Otisfield, Town of	0193	A		FO	7/1/1996	7/1/1996
Oxford County	0057	A	2,4	Yes	7/1/1994	
Oxford, Town of	0200	A	1	No	7/1/1996	
Paris Utility District	0159	A		Yes	7/1/1995	
Paris, Town of	0127	A	2	Yes	7/1/1996	
Penobscot County	0011	A	2	Yes	7/1/1994	
Penquis	0237	A		No	7/1/1995	
Phippsburg, Town of	0202	A	3	Yes	7/1/1996	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Piscataquis County	0121	A	4	Yes	7/1/1994	
Pittsfield, Town of	0110	A		No	7/1/1996	
Pleasant Point Passamaquoddy Reservation Housing Authority	0165	A		Yes	7/1/1996	
Poland, Town of	0336	A	1	FO	7/1/2010	Varied
Portland Housing Authority	0185	A		Yes	7/1/1994	
Portland Public Library	0041	A		Yes	7/1/1995	
Portland, City of	0002	A	2,3	Yes	7/1/1995	
Presque Isle, City of	0004	A	3	Yes	1/1/2020	
Princeton, Town of	0258	A		No	7/1/1996	
Rangeley, Town of	0382	A	2	Yes	7/1/2022	
Regional School Unit #01	0315	A	2	Yes	7/1/2008	
Regional School Unit #02	0323	A		FO	7/1/2009	7/1/2009
Regional School Unit #04	0324	A		Yes	7/1/2009	
Regional School Unit #05	0325	A		Yes	7/1/2009	
Regional School Unit #09	0119	A		Yes	7/1/1995	
Regional School Unit #10	0326	A		Yes	7/1/2009	
Regional School Unit #20	0328	A		Yes	7/1/2009	
Regional School Unit #21	0322	A		FO	7/1/2009	7/1/2009
Regional School Unit #23	0329	A		Yes	7/1/2009	
Regional School Unit #25	0321	A		No	7/1/2009	
Regional School Unit #26	0330	A		Yes	7/1/2009	
Regional School Unit #29	0168	A		Yes	7/1/1996	
Regional School Unit #34	0331	A		No	7/1/2009	
Regional School Unit #49	0189	A		No	7/1/1995	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Regional School Unit #51	0198	A		No	7/1/1996	
Regional School Unit #52	0461	A		Yes	11/1/2021	
Regional School Unit #54	0115	A		Yes	7/1/1996	
Regional School Unit #56	0366	A		Yes	7/1/2017	
Regional School Unit #60	0187	A		No	7/1/1994	
Regional School Unit #67	0126	A		Yes	7/1/2016	
Regional School Unit #73	0340	A		Yes	7/1/2011	
Regional School Unit #75	0380	A		Yes	5/1/2022	
Richmond Utilities District	0242	A		FO-Limited	7/1/1994	1/1/2023
Richmond, Town of	0213	A	3	Yes	7/1/2007	
Rockland, City of	0018	A	3	Yes	7/1/1995	
Rockport, Town of	0161	A	2	FO-Limited	7/1/1996	1/1/2021
RSU #35 - MSAD #35	0396	A		Yes	7/1/2023	
RSU #87 - MSAD #23 - School Support	0398	A		Yes	10/1/2023	
Rumford Fire & Police	0060	A	2,4	Yes	7/1/1995	
Rumford Mexico Sewerage District	0247	A		Yes	7/1/1996	
Rumford Water District	0065	A		Yes	7/1/1995	
Rumford, Town of	0090	A		Yes	7/1/1995	
Sabattus, Town of	0175	A	1,3	FO	7/1/1996	7/1/2006
Saco, City of	0192	A	2,3	FO-Limited	7/1/1995	Varied
Sagadahoc County	0096	A	2,3	Yes	7/1/2002	
Sanford Housing Authority	0152	A		Yes	7/1/1996	
Sanford Sewerage District	0089	A		No	7/1/1994	
Sanford Water District	0170	A		FO	7/1/1996	1/1/2009
Sanford, City of	0083	A	1,3	FO	7/1/1995	7/1/2002

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Scarborough, Town of	0147	A	1,3	Yes	7/1/1996	
School Administrative District No. 13 Bingham	0223	A		Yes	7/1/1996	
School Administrative District No. 31 Howland	0050	A		FO	7/1/1994	7/1/1994
School Administrative District No. 41 Milo	0143	A		Yes	7/1/1996	
School Administrative District No. 53 Pittsfield	0129	A		No	7/1/1996	
Searsport Water District	0124	A		No	7/1/1996	
Searsport, Town of	0117	A	3	No	7/1/1996	
Shapleigh, Town of	0381	A		No	7/1/2022	
Skowhegan, Town of	0080	A	3	Yes	7/1/1996	
Somerset County	0101	A	2,3	Yes	7/1/2005	
South Berwick Sewer District	0299	A		Yes	7/1/2003	
South Berwick Water District	0171	A	2	Yes	7/1/1996	
South Berwick, Town of	0141	A	1	FO	7/1/1996	7/1/1996
South Portland Housing Authority	0206	A		Yes	7/1/1996	
South Portland, City of	0009	A	3	Yes	7/1/1995	
Southern Aroostook Emergency Medical Services	0384	A	3	Yes	10/1/2022	
Southwest Harbor, Town of	0368	A	2	Yes	7/1/2018	
St. Agatha, Town of	0030	A		Yes	7/1/1996	
Standish, Town of	0371	A	2	FO	1/1/2021	9/1/2023
Thomaston, Town of	0164	A	3	Yes	1/1/2010	
Thompson Free Library	0318	A		Yes	1/1/2009	
Topsham Sewer District	0307	A		Yes	7/1/2005	
Topsham, Town of	0081	A	2,3	Yes	7/1/1996	
Town of Gray	0399	A	3	Yes	10/1/2023	
Town of Machias	0397	A	2	Yes	9/1/2023	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Town of Norridgewock	0402	A	3	Yes	12/1/2023	
Town of Raymond	0394	A	3	Yes	9/1/2023	
Trenton, Town of	0341	A		Yes	7/1/2011	
Union, Town of	0342	A		No	7/1/2012	
United Technologies Center, Region 4, S Penobscot	0269	A		FO	7/1/1996	7/1/2009
University of Maine System	0379	A	2	Yes	7/1/2022	
Van Buren Housing Authority	0229	A		Yes	7/1/1995	
Van Buren, Town of	0182	A	3	Yes	7/1/1995	
Vassalboro, Town of	0153	A		Yes	7/1/1996	
Veazie Fire & Police	0305	A	3	Yes	7/1/2004	
Waldo County	0046	A	2,3	Yes	7/1/1994	
Waldo County Technical Center	0224	A		No	7/1/1996	
Waldoboro, Town of	0195	A	3	Yes	7/1/1995	
Washburn Water and Sewer District	0335	A		No	7/1/2009	
Washburn, Town of	0230	A		No	7/1/1994	
Washington County	0040	A	3,4	Yes	7/1/1996	
Waterboro, Town of	0356	A	3	No	1/1/2015	
Waterville Sewerage District	0222	A		Yes	7/1/1994	
Waterville, City of	0066	A	3	FO-Limited	7/1/1996	Varied
Wells Fire and Police	0349	A	1	Yes	7/1/2013	
Wells Ogunquit Community School District #918	0266	A		FO	7/1/1995	7/1/1995
Wells, Town of	0107	A	3	FO-Limited	1/1/2018	7/1/2020
West Bath, Town of	0333	A	3	Yes	7/1/2009	
Westbrook Fire & Police	0070	A	1,3	Yes	7/1/2006	
Westbrook, City of	0122	A	3	Yes	7/1/2006	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX A – PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

<u>PLD Name</u>	<u>PLD #</u>	<u>Regular Plan</u>	<u>Special Plans</u>	<u>COLA</u>	<u>Entry Date</u>	<u>FO COLA Date</u>
Wilton, Town of	0086	A	2,3	FO	1/1/2009	1/1/2009
Windham, Town of	0309	A	3	Yes	7/1/2006	
Winslow, Town of	0362	A	3	Yes	1/1/2017	
Winter Harbor Utility District	0250	A		Yes	7/1/1995	
Winthrop Utilities District	0337	A		Yes	1/1/2011	
Winthrop, Town of	0179	A	2	FO	7/1/1994	7/1/2003
Wiscasset, Town of	0417	A	2	FO-Limited	1/1/2012	7/1/2020
Yarmouth Water District	0278	A		Yes	7/1/1994	
Yarmouth, Town of	0116	A	1	Yes	7/1/1996	
York County	0037	A	1,2,3	Yes	7/1/1996	
York Sewer District	0139	A		FO	7/1/1994	7/1/2006
York Water District	0039	A		Yes	7/1/1996	
York, Town of	0028	A	2,3	Yes	7/1/1994	

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX B – MEMBERSHIP INFORMATION

Active Member Data as of June 30, 2024	
Regular Plan Members	
Count	9,397
Average Current Age	47.0
Average Benefit Service	7.2
Average Vesting Service	7.7
Average Valuation Pay	\$ 60,628
Special Plan Members	
Count	4,164
Average Current Age	39.0
Average Benefit Service	8.8
Average Vesting Service	9.5
Average Valuation Pay	\$ 81,577
All Plan Members	
Count	13,561
Average Current Age	44.6
Average Benefit Service	7.7
Average Vesting Service	8.2
Average Valuation Pay	\$ 67,061

Participating Local Districts of the Maine Public Employees Retirement System Inactive Member Data as of June 30, 2024				
Regular Plans				
	Count	Average Age	Total Annual Benefit	Average Annual Benefit
Retired	6,403	73.5	\$ 110,397,333	\$ 17,242
Retired - Concurrent Beneficiary	375	72.7	1,583,827	4,224
Disability - Section 1122	17	80.3	233,343	13,726
Disability – Sections 3 and 3A	267	68.2	6,461,920	24,202
Beneficiary of Above	1,105	73.6	13,168,552	11,917
Pre-Retirement Death Beneficiary	164	69.7	1,148,158	7,001
Terminated Vested	2,464	52.3	15,418,141	6,257
Inactive Due Refund	9,261	NA	NA	NA

There are no actives in Special 4N Plan, so all remaining inactive participants were transferred to the Regular Plan.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX B – MEMBERSHIP INFORMATION

Participating Local Districts of the Maine Public Employees Retirement System Inactive Member Data as of June 30, 2024 Special Plans				
	Count	Average Age	Total Annual Benefit	Average Annual Benefit
Retired	1,718	67.9	\$ 68,747,238	\$ 40,016
Retired - Concurrent Beneficiary	350	68.6	2,671,562	7,633
Disability - Section 1122	15	77.3	373,406	24,894
Disability – Sections 3 and 3A	109	62.9	3,888,361	35,673
Beneficiary of Above	314	73.7	7,099,409	22,610
Pre-Retirement Death Beneficiary	16	62.1	132,153	8,260
Terminated Vested	489	46.4	5,578,080	11,407
Inactive Due Refund	992	NA	NA	NA

There are no actives in Special 4N Plan, so all remaining inactive participants were transferred to the Regular Plan.

In preparing this report, we relied on data provided by MainePERS as modified following the procedures outlined in the State of Maine Data Processing Notebook. Adjustments to the data are made based on this processing notebook. Accuracy of the results is dependent on the completeness of the underlying information. The plan sponsor is responsible for the validity and completeness of the information provided. We believe the data provided as modified as documented in the Processing Notebook is sufficient for the actuarial analysis performed.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

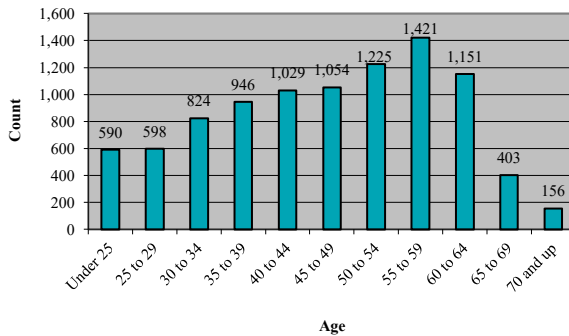
APPENDIX B – MEMBERSHIP INFORMATION

**Distribution of Active Members
As of June 30, 2024**

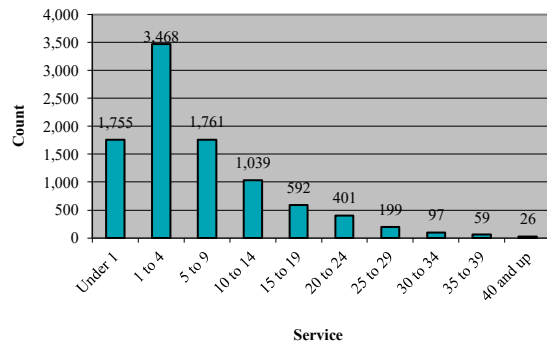
Regular Plan Participants

	Years of Service										Totals
	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 and up	
Under 25	381	206	3	0	0	0	0	0	0	0	590
25 to 29	191	330	77	0	0	0	0	0	0	0	598
30 to 34	205	405	175	36	3	0	0	0	0	0	824
35 to 39	227	433	190	75	21	0	0	0	0	0	946
40 to 44	185	395	246	129	54	19	1	0	0	0	1,029
45 to 49	162	405	223	140	69	42	13	0	0	0	1,054
50 to 54	146	416	256	166	100	94	33	10	4	0	1,225
55 to 59	130	411	279	204	162	104	75	35	20	1	1,421
60 to 64	69	332	233	194	123	90	43	27	27	13	1,151
65 to 69	38	94	59	68	48	40	24	18	8	6	403
70 and up	21	41	20	27	12	12	10	7	0	6	156
Total	1,755	3,468	1,761	1,039	592	401	199	97	59	26	9,397

Age Distribution



Service Distribution



**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

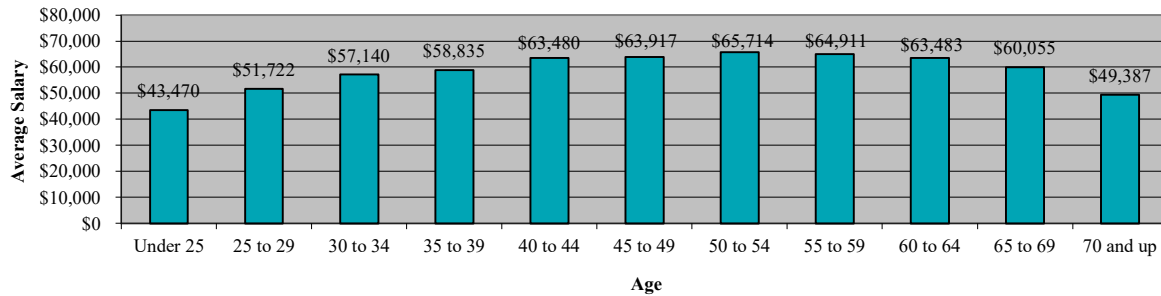
APPENDIX B – MEMBERSHIP INFORMATION

**Distribution of Active Members
As of June 30, 2024**

Regular Plan Participants

	Average Salary Years of Service										Average
	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 and up	
Under 25	\$ 39,682	\$ 50,073	\$ 71,202	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 43,470
25 to 29	45,101	52,903	63,087	0	0	0	0	0	0	0	51,722
30 to 34	49,043	56,417	65,029	71,575	74,631	0	0	0	0	0	57,140
35 to 39	49,485	57,304	64,155	77,681	76,019	0	0	0	0	0	58,835
40 to 44	49,003	60,247	68,118	77,208	78,731	74,357	76,571	0	0	0	63,480
45 to 49	51,684	57,303	67,657	75,383	85,083	75,992	83,401	0	0	0	63,917
50 to 54	54,159	60,153	65,314	73,522	76,536	78,994	75,561	74,605	81,330	0	65,714
55 to 59	51,495	59,817	62,119	68,212	72,869	70,170	80,313	80,783	85,157	56,063	64,911
60 to 64	49,030	57,473	58,932	71,684	66,633	71,278	80,969	71,147	76,666	67,963	63,483
65 to 69	42,705	51,538	53,590	68,632	66,693	69,363	62,157	71,756	83,929	79,211	60,055
70 and up	39,390	38,568	46,476	57,356	56,495	64,637	59,047	53,489	0	66,540	49,387
Average	\$ 47,233	\$ 56,965	\$ 63,804	\$ 72,337	\$ 73,439	\$ 73,049	\$ 76,591	\$ 73,819	\$ 80,845	\$ 69,773	\$ 60,628

Average Salary Distribution



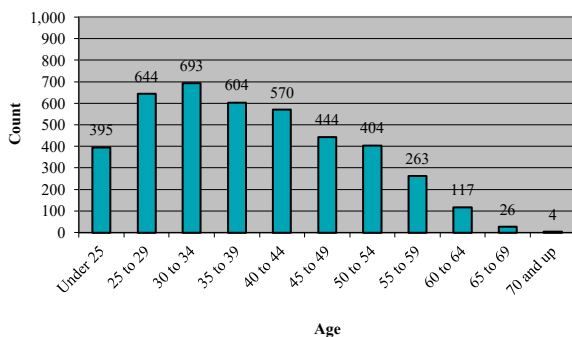
**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX B – MEMBERSHIP INFORMATION

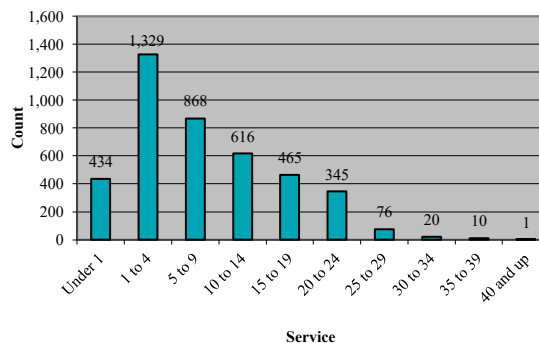
**Distribution of Active Members
As of June 30, 2024**

	Special Plan Participants										Totals
	Years of Service										
	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 and up	
Under 25	137	252	6	0	0	0	0	0	0	0	395
25 to 29	102	358	184	0	0	0	0	0	0	0	644
30 to 34	59	263	278	93	0	0	0	0	0	0	693
35 to 39	45	164	167	163	65	0	0	0	0	0	604
40 to 44	37	100	109	132	149	43	0	0	0	0	570
45 to 49	28	72	49	86	95	105	9	0	0	0	444
50 to 54	13	74	29	70	80	97	36	5	0	0	404
55 to 59	9	25	28	46	47	72	21	10	5	0	263
60 to 64	4	17	10	20	28	20	9	4	4	1	117
65 to 69	0	3	6	6	1	8	1	1	0	0	26
70 and up	0	1	2	0	0	0	0	0	1	0	4
Total	434	1,329	868	616	465	345	76	20	10	1	4,164

Age Distribution



Service Distribution



**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

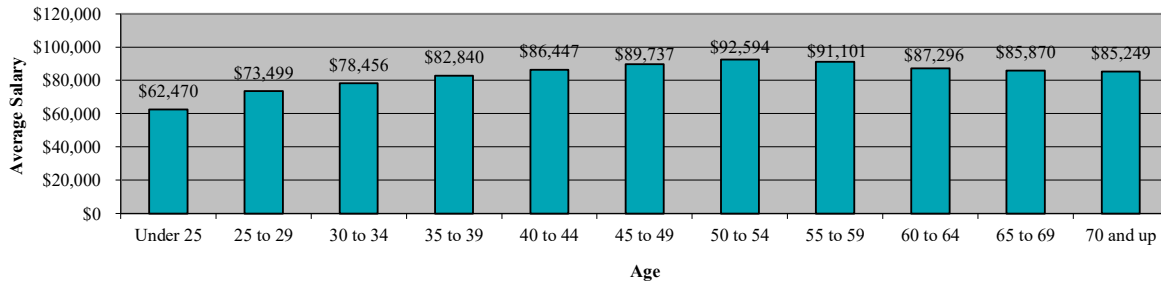
APPENDIX B – MEMBERSHIP INFORMATION

**Distribution of Active Members
As of June 30, 2024**

Special Plan Participants

	Average Salary Years of Service										Average
	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 and up	
Under 25	\$ 51,998	\$ 68,052	\$ 67,130	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 62,470
25 to 29	54,503	73,616	83,803	0	0	0	0	0	0	0	73,499
30 to 34	54,212	72,980	84,522	91,192	0	0	0	0	0	0	78,456
35 to 39	55,046	72,015	81,358	95,810	100,676	0	0	0	0	0	82,840
40 to 44	53,901	73,843	82,310	89,844	97,283	106,275	0	0	0	0	86,447
45 to 49	60,596	74,842	80,029	95,288	92,331	103,362	113,028	0	0	0	89,737
50 to 54	64,924	75,114	88,947	91,487	97,546	99,263	108,956	133,531	0	0	92,594
55 to 59	80,821	74,902	72,270	86,358	92,246	98,997	108,009	117,635	91,128	0	91,101
60 to 64	57,334	82,423	80,264	76,641	95,207	98,664	77,394	105,111	109,580	53,223	87,296
65 to 69	0	88,298	73,907	79,506	137,145	97,270	59,619	72,334	0	0	85,870
70 and up	0	106,407	74,440	0	0	0	0	0	85,711	0	85,249
Average	\$ 54,955	\$ 72,599	\$ 82,716	\$ 91,783	\$ 96,242	\$ 101,248	\$ 104,789	\$ 116,839	\$ 97,967	\$ 53,223	\$ 81,577

Average Salary Distribution



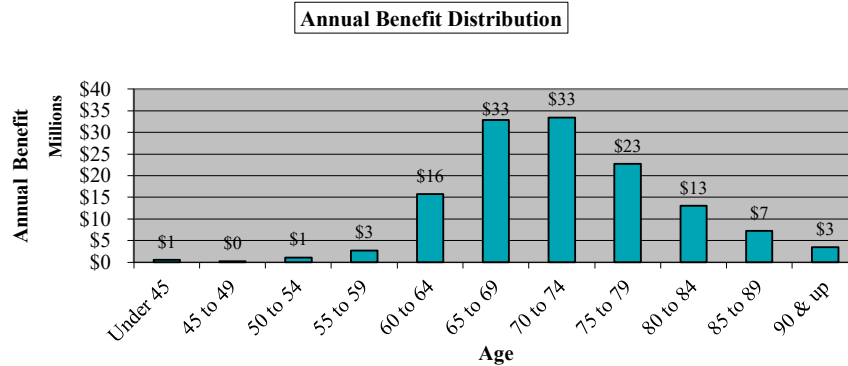
**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX B – MEMBERSHIP INFORMATION

**Distribution of Retirees, Disabled
Members, Beneficiaries, and Survivors
As of June 30, 2024**

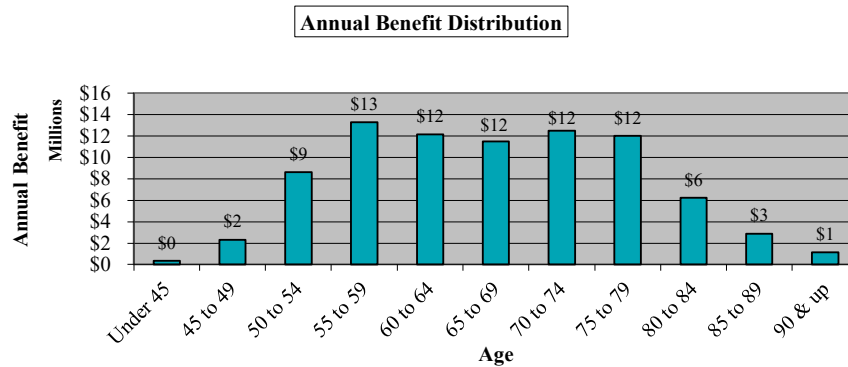
Regular Plan Participants

Age	Count	Annual Benefit
Under 45	76	\$ 518,907
45 to 49	22	223,470
50 to 54	68	1,086,155
55 to 59	154	2,763,725
60 to 64	864	15,702,030
65 to 69	1,871	32,899,658
70 to 74	2,025	33,435,983
75 to 79	1,465	22,696,557
80 to 84	928	13,011,609
85 to 89	544	7,231,651
90 & up	<u>314</u>	<u>3,423,388</u>
Total	8,331	\$ 132,993,133



Special Plan Participants

Age	Count	Annual Benefit
Under 45	16	\$ 332,313
45 to 49	59	2,319,091
50 to 54	223	8,624,194
55 to 59	354	13,289,267
60 to 64	356	12,125,693
65 to 69	338	11,501,197
70 to 74	380	12,496,627
75 to 79	397	12,009,986
80 to 84	229	6,210,640
85 to 89	117	2,873,048
90 & up	<u>53</u>	<u>1,130,073</u>
Total	2,522	\$ 82,912,129



There are no actives in Special 4N Plan, so all remaining inactive participants were transferred to the Regular Plan.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX B – MEMBERSHIP INFORMATION

	Active Members	Retired Members	Beneficiaries of Retired Members	Survivors of Deceased Members	Disabled Members ¹	Terminated Vested Members ²
As of June 30, 2023	13,122	7,905	2,128	179	403	2,865
New hires	2,002					
Rehires	238					(69)
New PLDs or expanded coverage	51					
Movement between plans	(1)	-	-			(5)
New retirees	(313)	501				(186)
New disabled retirees	(13)				15	(2)
New beneficiaries due to retirements			41			
New deferred vested members	(391)					475
Non-vested terminations	(880)					
Refunds	(249)					(83)
Deaths, no future benefits	(2)	(205)	(102)	(5)	(10)	(16)
Deaths with a survivor or beneficiary	(7)	(79)	78	9	(4)	(10)
Benefits expired				(5)		
Benefits restarted				2		
Records combined / split						
Data correction	4	(1)	(1)	-	4	(16)
As of June 30, 2024	13,561	8,121	2,144	180	408	2,953

1. Former disabled retirees who have changed to service retirement as mandated by the Plan are still included as disabled members.

2. Deferred vested members includes those indicated to us in the data who have terminated and are eligible for a future annuity.

Missing Participants

Due to reporting issues, MainePERS was not able to provide complete payroll information for the year ending June 30, 2024 for City of Portland School Support employees. The information provided for this group for purposes of this valuation does not include members who were hired after March 2023. Employees of this group participate in Regular Plan AC. MainePERS was able to provide a partial file of information on the missing participants. We believe that, due to the small number of participants missing relative to the Regular Plan AC active membership, as well as the overall demographics of that group, excluding this group would not have a material impact to the results of this valuation. It is also our understanding that the contributions on behalf of these missing participants are not included in the assets reported by MainePERS and as such, excluding them also does not create a mismatch in the assets and liabilities for the Consolidated PLD valuation as a whole.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX C – SUMMARY OF PLAN PROVISIONS

1. Member Contributions

Beginning with FY 2020, the contribution rates for members are determined annually based on the risk-sharing framework adopted by the Board of Trustees. The rates for members of Regular Plans (AC, AN, and BC) also vary based on whether the member joined the Plan prior to July 1, 2014 and thus has a normal retirement age of 60 or joined on or after this date and has a normal retirement age of 65. See the Annual PLD Contribution Rate letter for further details.

Member contributions earn annual interest at the rate adopted by the Board of Trustees each February.

2. Average Final Compensation

For purposes of determining benefits payable, average final compensation is the average annual rate of earnable compensation for the three years of creditable service (not necessarily consecutive) that produce the highest such average.

3. Creditable Service

Creditable service includes service while a member, certain service prior to the establishment of the Plan, purchased service credit of which there are several types, and service while receiving disability benefits under the Plan.

Effective August 1, 2019, the ability to use accrued, unused vacation and sick leave towards retirement benefits is available only to those who have 20 or more years of creditable service under the Plan at retirement.

4. Service Retirement Benefits

Regular Plan AC

Normal Retirement Age:

Plan members prior to July 1, 2014: 60

New members to the Plan on or after July 1, 2014: 65

Eligibility for Members in Active Service and Inactive Members: 25 years of creditable service.

Eligibility Alternative for Members in Active Service: At least one year of creditable service immediately before retirement and at least normal retirement age.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX C – SUMMARY OF PLAN PROVISIONS

Eligibility for Members not in Active Service at Retirement and not in Active Service on or after October 1, 1999: At least 10 years of creditable service and at least normal retirement age.

Eligibility for Members not in Active Service at Retirement but in Active Service on or after October 1, 1999: At least five years of creditable service and at least normal retirement age.

Benefit: 1/50 of average final compensation multiplied by years of membership service under Consolidated Plan AC reduced by:

Plan members prior to July 1, 2014:	approximately 2¼% for each year that a member is younger than age 60 at retirement.
-------------------------------------	---

New members to the Plan on or after July 1, 2014:	6% for each year that a member is younger than age 65 at retirement.
---	--

Beginning July 1, 2019, the age reduction factors are a set of approximately actuarially equivalent rates rather than the above rates for members with less than 20 years of creditable service under the PLD Consolidated Plan on July 1, 2019. The above 2¼% and 6% rates remain in effect for those members with 20 or more years of creditable service under the PLD Consolidated Plan on July 1, 2019.

Form of Payment: Life annuity (“full benefit”) unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 11.

Regular Plan AN

This benefit plan is the same as Regular Benefit Plan AC, except that there is no provision for cost-of-living adjustments.

Regular Plan BC

Normal Retirement Age:

Plan members prior to July 1, 2014: 60

New members to the Plan on or after July 1, 2014: 65

Eligibility for Members in Active Service and Inactive Members: 25 years of creditable service.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX C – SUMMARY OF PLAN PROVISIONS

Eligibility Alternative for Members in Active Service: At least one year of creditable service immediately before retirement and at least normal retirement age.

Eligibility for Members not in Active Service at Retirement and not in Active Service on or after October 1, 1999: At least 10 years of creditable service and at least normal retirement age.

Eligibility for Members not in Active Service at Retirement but in Active Service on or after October 1, 1999: At least five years of creditable service and at least normal retirement age.

Benefit: 1/100 of average final compensation multiplied by years of membership service under Consolidated Plan BC reduced by:

Plan members prior to July 1, 2014:	approximately 2¼% for each year that a member is younger than age 60 at retirement.
-------------------------------------	---

New members to the Plan on or after July 1, 2014:	6% for each year that a member is younger than age 65 at retirement.
---	--

Beginning July 1, 2019, the age reduction factors are a set of approximately actuarially equivalent rates rather than the above rates for members with less than 20 years of creditable service under the PLD Consolidated Plan on July 1, 2019. The above 2¼% and 6% rates remain in effect for those members with 20 or more years of creditable service under the PLD Consolidated Plan on July 1, 2019.

Form of Payment: Life annuity (“full benefit”) unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 11.

Regular Plan Notes

1. Under certain circumstances, Regular Plan service can count on a pro-rata basis specific to the applicable Special Plan toward meeting Special Plan benefit eligibility requirements.
2. The actual benefit for service earned prior to coverage under the Consolidated Plan may be based on a variable percentage of average final compensation multiplied by years of service under any previous plan(s) (the percentage depends on the previous plan(s)).

Special Plan 1C

Eligibility: 20 years of creditable service in named positions.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX C – SUMMARY OF PLAN PROVISIONS

Benefit: One-half of average final compensation plus 2% for each year of service in excess of 20 years of service.

Form of Payment: Life annuity (“full benefit”) unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 11.

Special Plan 1N

This benefit plan is identical to Special Benefit Plan 1C, except that there is no provision for cost-of-living adjustments.

Special Plan 2C

Eligibility: 25 years of creditable service in named positions.

Benefit: One-half average final compensation plus 2% for each year of service in excess of 25 years of service.

Form of Payment: Life annuity (“full benefit”) unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 11.

Special Plan 2N

This benefit plan is identical to Special Benefit Plan 2C, except that there is no provision for cost-of-living adjustments.

Special Plan 3C

Eligibility: 25 years of creditable service in named positions.

Benefit: Two-thirds of average final compensation plus 2% for each year of service in excess of 25 years of service.

Form of Payment: Life annuity (“full benefit”) unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 11.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX C – SUMMARY OF PLAN PROVISIONS

Special Plan 3N

This benefit is identical to Regular Benefit Plan 3C, except that there is no provision for cost-of-living adjustments.

Special Plan 4C

Eligibility: Age 55 with 25 years of creditable service in named positions.

Benefit: 1/50 of average final compensation multiplied by years of membership service under Consolidated Plan 4C reduced by:

Plan members prior to July 1, 2014:	approximately 2¼% for each year that a member is younger than age 55 at retirement.
-------------------------------------	---

New members to the Plan on or after July 1, 2014:	6% for each year that a member is younger than age 55 at retirement.
---	--

Beginning July 1, 2019, the age reduction factors are a set of approximately actuarially equivalent rates rather than the above rates for members with less than 20 years of creditable service under the PLD Consolidated Plan on July 1, 2019. The above 2¼% and 6% rates remain in effect for those members with 20 or more years of creditable service under the PLD Consolidated Plan on July 1, 2019.

Form of Payment: Life annuity (“full benefit”) unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 11.

Special Plan 4N

This benefit plan is identical to Special Benefit Plan 4C, except that there is no provision for cost-of-living adjustments.

Special Plan Notes

- A. If a Special Plan member fails to meet the Special Plan eligibility criteria, their service retirement benefit is that provided by the applicable underlying Regular Plan; Special Plan service credits are used toward Regular Plan eligibility requirements.
- B. Service in all Special Plans counts, on a percentage basis, toward meeting the benefit eligibility requirements of any Special Plan.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX C – SUMMARY OF PLAN PROVISIONS

- C. The actual benefit for service earned prior to coverage under the Consolidated Plan may be based on a variable percentage of average final compensation multiplied by years of service under any previous Plan(s) (the percentage depends on the previous Plan(s)).

5. Disability Retirement Benefits Other Than No-Age Benefits (See Item 6)

Eligibility: Disabled as defined in the MainePERS statutes prior to applicable normal retirement age, employed prior to October 16, 1992, and did not elect the No-Age Disability Benefits, and either disabled in the line-of-duty or disabled with at least five years of creditable service.

Benefit: 66⅔% of average final compensation, reduced by employment earnings over the specified statutory limit, and to the extent that the benefit in combination with Workers' Compensation and Social Security, exceeds 80% of average final compensation.

Form of Payment: Payment begins upon the termination of service and ceases on cessation of disability or after five years unless the member is unable to engage in any substantially gainful activity, in which case payments cease on the earlier of 10 years following normal retirement age or the date that the service retirement benefit equals or exceeds the disability benefit.

Conversion to Service Retirement: During the period of disability, service is credited and average final compensation is increased at the same rate as any cost-of-living adjustments for which the member is eligible (see item 11). On the date when service benefits reach a level of 66⅔% of average final compensation or 10 years after the normal retirement date if earlier, the disability converts to a service retirement benefit based on service and average final compensation at that time.

6. No-Age Disability Retirement Benefits

Eligibility: Disabled as defined in the MainePERS statutes, employed on or after October 16, 1992 or employed prior to October 16, 1992 and elected the provisions of No-Age Disability, and either disabled in the line-of-duty or disabled with at least five years of creditable service.

Benefit: 59% of average final compensation, reduced by employment earnings over the specified statutory limit, and to the extent that the benefit, in combination with Workers' Compensation and Social Security, exceeds 80% of average final compensation.

Form of Payment: Payment begins upon the termination of service and ceases on cessation of disability or after five years, unless the member is unable to engage in any substantially gainful activity, in which case payments cease on the date the service retirement benefit equals or exceeds the disability benefit.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX C – SUMMARY OF PLAN PROVISIONS

Conversion to Service Retirement: During the period of disability, service is credited and average final compensation is increased at the same rate as any cost-of-living adjustments for which the member is eligible (see item 11). On the date when service benefits reach a level of 59% of average final compensation, the disability benefit converts to a service retirement benefit based on service and average final compensation at that time.

7. Pre-Retirement Ordinary Death Benefits

Eligibility: Death while active, inactive eligible to retire, or disabled not resulting from an injury received in the line-of-duty.

Benefit: Designated beneficiary, spouse, children, or parents entitled to benefit calculated as if the deceased member had retired under Option 2 (see item 12); however, the beneficiary may elect survivor benefits payable to a surviving spouse, dependent children, parent, or other designated beneficiaries in monthly amounts varying by the status of beneficiary and number of eligible survivors. Otherwise, accumulated contributions with interest are payable to the designated beneficiary, spouse, children, older parents, or estate.

8. Pre-Retirement Accidental Death Benefits

Eligibility: Death while active or disabled resulting from an injury received in the line of duty.

Benefit:

- If the member leaves no dependent children, two-thirds of the member's average final compensation to the surviving spouse until death.
- If the member is survived by a spouse who has the care of dependent children of the member, the surviving spouse shall receive an annual sum equal to the member's average final compensation while having the care of dependent children. When there are no longer any dependent children, the surviving spouse shall receive two-thirds of the member's average final compensation until death.
- If the member is survived by a spouse who does not have the care of the member's dependent children, the surviving spouse and dependent children shall share equally an annual sum equal to the member's average final compensation. When there are no longer any dependent children, the surviving spouse shall receive two-thirds of the member's average final compensation until death.
- If the member leaves no spouse, the dependent children shall share an annual amount equal to the member's average final compensation. Benefits will cease when the last dependent child no longer meets the definition of "dependent child."

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX C – SUMMARY OF PLAN PROVISIONS

9. Termination Benefit

Eligibility: Termination of service other than by retirement or death with at least five years of creditable service.

Benefit: The member's choice of a refund of the accumulated contributions with interest or a retirement benefit using creditable service and average final compensation as of the date of termination, deferred to normal retirement age.

10. Refund of Contributions

Eligibility: Termination of service other than by retirement or death with less than five years of creditable service.

Benefit: Refund of member's accumulated contributions with interest.

11. Cost-of-Living Adjustments (COLA)

All service and disability retirement and survivor benefits payable to (or in relation to) benefit recipients who were employed by a PLD that elected a Plan that provides for a COLA are adjusted each year that there is a percentage change in the Consumer Price Index, based on the Index. If the percentage change is negative, then no adjustment is made in that year. In subsequent years, the adjustment that would have been made will be adjusted downward to the extent necessary to recoup the full actuarial value of not having made the previous year's negative adjustment. This process of adjustment may occur over a multi-year period if needed to recoup the full value of negative changes in the Index.

Cost-of-living adjustments (COLA) are effective September 1 of each year and are applied to all benefits in a Plan that provides for a COLA that have been in payment for six months for retirees who retire prior to September 1, 2015, 12 months for retirees who retired on or after September 1, 2015, and 24 months for those who retire on or after September 1, 2019.

The maximum annual increase is 2.5%, applicable to COLAs issued in September 2018 and later (prior to this, 3% for the 2014 through 2017 COLAs and 4% prior to the 2014 COLA).

Possible downward adjustments to future COLAs may occur if severe market losses result in contribution rates under the risk-sharing contribution methodology that exceed the contribution caps for PLD and member rates under this methodology. In this eventuality, a reduced COLA may be paid to retirees.

An extra 1.0% COLA was granted to eligible retirees at September 1, 2022.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX C – SUMMARY OF PLAN PROVISIONS

12. Methods of Payment of Service Retirement Benefits

At retirement, a member who retires with a benefit must choose from the following methods of payment:

Full Benefit: Unadjusted benefit paid for the life of the member-only.

Option 1: Cash refund equal to the remaining member contribution balance, if any, at the date of death (where the member contribution balance has been reduced each month by the portion of the monthly benefit deemed to be provided by member contributions).

Option 2: 100% joint and survivor annuity.

Option 3: 50% joint and survivor annuity.

Option 4: Joint and survivor annuity at any percentage other than those available under Option 2 and Option 3.

Option 5: Designated percentage of the benefit (not less than 51%) payable to the member, with the remaining percentage (the two to equal 100%) payable to a beneficiary (may only be a sole beneficiary) while both are alive. At the death of either, the higher of the two percentages is paid to the survivor for the survivor's life, and the lower-percentage benefit ceases to be paid.

Option 6: 100% joint and survivor annuity (Option 2) with pop-up*.

Option 7: 50% joint and survivor annuity (Option 3) with pop-up*.

Option 8: Option 4 with pop-up*.

* The "pop-up" feature attached to a given Option means that in the case of a beneficiary predeceasing the member, the member's benefit will be revised prospectively to the amount that the benefit would have been had the member selected Full Benefit payment upon retirement.

13. Plan Changes Since Prior Valuation

An ad-hoc 0.5% non-cumulative COLA was paid in February 2024 to eligible in-pay participants. This payment had no effect on future benefits payable.

This Appendix C is intended to be a brief summary of provisions. In the event of a dispute, applicable statutes and administrative policy supersede this report description.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX D – ACTUARIAL ASSUMPTIONS AND METHODS

A. Actuarial Assumptions

1. Annual Rate of Investment Return

PLDs	6.50%
------	-------

Rate is net of both administrative and investment expense.

2. LDROM Discount Rate

PLDs	4.44%
------	-------

3. Cost-of-Living Adjustment (COLA) Assumed Rate

PLDs	1.91%
------	-------

4. Sample Rates of Individual Salary Increases (% at Selected Years of Service)

Years of Service	PLD
0	11.48%
1	8.66
2	4.81
3	4.29
4	4.03
5	3.78
10	3.26
15	3.26
20	3.01
25	2.75
30	2.75

The above rates include a 2.75% across-the-board increase at each year of service.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX D – ACTUARIAL ASSUMPTIONS AND METHODS

5. Sample Rates of Termination (% at Selected Years of Service)

Service	Regular	Special
0	28.0%	17.9%
1	21.0	14.4
2	15.0	10.5
3	12.0	9.5
4	10.0	7.8
5	9.0	7.9
10	5.0	4.5
15	3.5	2.9
20	3.5	2.7
25	3.0	0.0

Non-vested members are assumed to take a refund of contributions with interest. Once vested, the member is assumed to elect the greater of the deferred vested benefit or a refund of member contributions with interest based on present value at the time of termination.

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

Age	(Showing values in 2024)	
	Male	Female
50	31	24
55	46	34
60	70	47
65	102	69
70	157	110
75	264	196
80	478	364
85	884	695
90	1,547	1,308
95	2,421	2,143

Rates are based on 112.1% and 118.5% of the 2010 Public Plan General Benefits-Weighted Healthy Retiree Mortality Table, respectively, for males and females. The rates are projected generationally using the RPEC_2020 model, with an ultimate rate of 1.00% for ages 80 and under, grading down to 0.05% at age 95, and further grading down to 0.00% at age 115, along with convergence to the ultimate rates in the year 2027. All other parameters used in the RPEC_2020 model are those included in the published MP-2020 scale.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX D – ACTUARIAL ASSUMPTIONS AND METHODS

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

(Showing values in 2024)		
Age	Male	Female
20	3	1
25	3	1
30	4	2
35	6	3
40	7	4
45	9	5
50	12	7
55	17	11
60	27	17
65	39	25

* For Regular Plans, 5% of deaths assumed to arise out of and in the course of employment, while for Special Plans, 20% of deaths are assumed to arise out of and in the course of employment.

Rates are based on 83.5% and 88.6% of the 2010 Public Plan General Benefits-Weighted Employee Mortality Table, respectively, for males and females. These rates are generationally projected using the same version of the RPEC_2020 model as described in the healthy annuitant mortality.

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

(Showing values in 2024)		
Age	Male	Female
25	36	21
30	54	37
35	74	58
40	91	76
45	113	98
50	159	141
55	216	181
60	274	210
65	325	220
70	383	258

Rates for are based on 107.3% and 103.2% of the 2010 Public Plan Non-Safety Benefits-Weighted Disabled Retiree Mortality Table, respectively, for males and females. These rates are generationally projected using the same version of the RPEC_2020 model described in the healthy annuitant mortality.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX D – ACTUARIAL ASSUMPTIONS AND METHODS

9. Sample Rates of Retirement at Selected Ages (number retiring per 1,000 members)

Regular Plans

Regular Plans		
Age	NRA 60	NRA 65
45	N/A	N/A
50	N/A	N/A
55	N/A	N/A
60	120	60
65	250	200
70	1,000	250
75	1,000	1,000

In the case of PLD employees, NRA 60 refers to those who were members prior to July 1, 2014, and NRA 65 refers to those who became members on or after July 1, 2014.

Special Plans

Special Plans	
Service	Assumption
20	350
21	300
22	280
23	250
24	200
25	350
26	250
27	230
28	250
29	400
30	250
31-33	250
34	330
35+	1,000

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX D – ACTUARIAL ASSUMPTIONS AND METHODS

Note that all retirement rates are only applied once the member is eligible to retire, so those in 25-year Plans are not assumed to retire at 20 years of service. For Special Plan retirements with less than 20 years of service, we assume 250 retirements per 1,000 members.

10. Sample Rates of Disability at Selected Ages (number becoming disabled per 10,000 members)*

Age	Regular	Special
25	0.9	2.3
30	1.2	3.0
35	1.8	4.5
40	4.2	10.5
45	8.7	21.8
50	16.5	41.3
55	28.5	70.0
60	30.0	70.0

* 10% assumed to receive Workers Compensation benefits offsetting disability benefit.

11. Family Composition Assumptions

80% of active members are assumed to be married and have two children born when the member is 24 and 28; children are assumed dependent until age 18; a female spouse is assumed to be three years younger than a male spouse; member is assumed to have no dependent parents; unmarried members are assumed to have beneficiaries entitled to benefits worth 80% as much as those of married members' beneficiaries.

12. Technical and Miscellaneous Assumptions

Decrement Timing: Middle of the valuation year.

Pay Increase Timing: Salary provided is treated as the rate of pay as of the valuation date. Annual increases are applied as of the beginning of each subsequent valuation.

Member Contribution Interest Rate: Reflects actual historical member contribution interest rates from 1970 through the valuation; future contribution interest assumed to equal the inflation assumption of 2.75%.

COLA Timing: September 1.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX D – ACTUARIAL ASSUMPTIONS AND METHODS

Member Contribution Rates: For purposes of developing liability amounts, the member contribution rates developed based on the prior year's valuation are assumed to continue for all periods in the future.

13. Rationale for Assumptions

The demographic assumptions were adopted by the Board of Trustees at their May 13, 2021 meeting. The discount rate was adopted by the Board of Trustees at their August 12, 2021 meeting. The demographic assumptions adopted are based on an experience study covering the period from July 1, 2015 through June 30, 2020, and the economic assumptions are based on this experience study along with advice of the MainePERS investment consultants. In our professional judgment, the combined effect of the assumptions has no significant bias.

The LDROM discount rate is the single equivalent rate determined by matching Plan cashflows to US Treasury Securities yields as of the measurement date as published by the Federal Reserve.

14. Changes Since Last Valuation

The LDROM discount rate was updated to 4.44% based on Treasury yields as of June 30, 2024.

15. Rationale for Change in Actuarial Assumptions

N/A

16. Disclosure for Reasonable Actuarially Determined Contribution Method

The rates developed in the ratemaking process in Table I-2 meet the requirements on a Total Plan basis of a reasonable ADC as defined by the actuarial standards of practice. The actuarial methods used to determine the reasonable actuarially determined contribution 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.

17. Disclosure of Models Used

ProVal: Cheiron utilizes ProVal, an actuarial valuation software leased from Winklevoss Technologies (WinTech) to calculate the liabilities, normal costs, and projected benefit payments. We have relied on WinTech as the developer of ProVal. We have reviewed ProVal and have a basic understanding of it and have used ProVal in accordance with its

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX D – ACTUARIAL ASSUMPTIONS AND METHODS

original intended purpose. We have not identified any material inconsistencies in assumptions or output of ProVal that would affect this actuarial valuation.

Projection Model: This report includes projections of future contributions, assets, liabilities, and funded status for the purpose of assisting the Board of Trustees with the management of the Fund. We have used Cheiron's P-Scan and R-Scan models to develop these projections. The model is also used to stress test the impact of volatile asset returns over the projection period.

The P-Scan projection uses projected benefit payments for current members but does not include projected benefit payments for new members. This limitation is not material for the next 20 years, but longer projection periods should be viewed with caution. The P-Scan projection uses standard roll-forward techniques that implicitly assume a stable active population. Changes in the demographic characteristics of the active population will lead to different results.

The stochastic projections of investment returns assume that each future year's investment return is independent from all other years and is identically distributed according to a lognormal distribution. This assumption may result in an unrealistically wide range of compound investment returns over longer periods of time. The standard deviation used in the stochastic projection of investment returns was provided by the investment consultant.

Mortality Improvement Model: Cheiron utilized the RPEC 2014_v2020 Model Implementation Tool for the purposes of developing the customized version of MP-2020 used in this report. This tool is updated and published annually by the Society of Actuaries and their Retirement Plans Experience Committee and allows actuaries to develop customized versions of mortality improvement scales based on the parameters and data underlying the published MP-2020 scale but allowing practitioners to vary parameters from those used in the published MP-2020 scale.

We have reviewed this model and believe it is appropriate to our intended use in developing a customized mortality improvement scale for the Programs. Further, we are aware of no material inconsistencies that would limit our ability to use this model for its intended purpose.

B. Actuarial Methods

1. Funding and LDROM Cost Method

The entry age normal actuarial cost method is used to determine costs and the actuarially determined contributions needed to fund the Plan. The actuarially determined contributions are then used to develop the specific rates for both members and PLDs for each specific Regular and Special Plan within the Plan. Under this cost method, the Actuarially

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX D – ACTUARIAL ASSUMPTIONS AND METHODS

Determined Plan Total Rate consists of two elements: the Actuarially Determined Plan Normal Cost Rate and the Actuarially Determined Plan UAL Amortization Rate.

For each of the Regular and Special Plans in the Consolidated Plan, an individual entry age normal cost rate is determined for each active member. The normal cost is determined by the following steps. First, an individual normal cost rate is determined by taking the value, as of entry age into a Plan, of each active member's projected future benefits. Second, this value is then divided by the value, also at entry age, of the member's expected future salary. These rates are then multiplied by each member's salary as of the valuation date to get the total normal cost dollars as of the valuation date for that Plan. These individual amounts for each Regular and Special Plan are then added to get the total normal cost dollars for the Plan and then divided by the total payroll for the Plan to get the Actuarially Determined Plan Normal Cost Rate.

The unfunded actuarial liability under the entry age normal cost method equals the present value, at the time of valuation, of the future benefit payments less the present value of future normal costs, future member contributions, future IUUAL payments, and current assets. Under the Consolidated Plan, the Actuarially Determined Plan UAL Amortization Rate is calculated for the Consolidated Plan in total based on the pooled UAL being amortized over a 20-year period commencing with the June 30, 2015 valuation date and any layers of pooled UAL arising after that date amortized over individual 20-year periods. This amortization uses a level percentage of pay method with payroll assumed to increase at 2.75% per year. The amortization payment thus derived for the valuation year is then divided by the total payroll to develop the Actuarially Determined Plan UAL Amortization Rate. Amortization payments are assumed to be made each pay period.

The risk-sharing framework adopted by the Board of Trustees is then used to develop individual PLD and member rates for each Regular and Special Plan within the Plan based on the Actuarially Determined Plan Total Rate. The allocation to each specific Plan from the Total Rate is based on the normal cost rate for each specific Plan relative to the Plan in total. For the three Regular Plans, member rates are developed separately for members under the provisions with an age 60 normal retirement age and members under the provisions with an age 65 normal retirement age.

In addition to the development of rates for each Plan, the actual contribution for a given PLD will include an Individual Unpooled Unfunded Actuarial Liability (IUUAL) payment as well, unless the PLD came into the Plan without an IUUAL or has paid off its IUUAL. The Initial Unpooled Unfunded Actuarial Liability (IUUAL) was calculated at entry into the Consolidated Plan for each PLD that entered with liabilities in excess of their assets and is paid off through payment of a specific dollar amount until paid off.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX D – ACTUARIAL ASSUMPTIONS AND METHODS

2. Asset Valuation Method

For purposes of determining member and PLD contributions to the Plan and the Plan's funded status, we use an actuarial value of assets. The asset adjustment 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.

In determining the actuarial value of assets, we calculate an expected actuarial value based on the cash flows for the year and imputed returns at the actuarial assumption. This expected value is compared to the actual market value at the valuation date and one-third of the difference is added to the preliminary actuarial value to arrive at the final actuarial value.

3. FASB ASC Topic 960 Cost Method:

The cost method for valuation of liabilities for FASB ASC Topic 960 purposes is the Unit Credit Cost method. This is one of a family of valuation methods known as accrued benefits methods. The chief characteristic of accrued benefits methods is that the funding pattern follows the pattern of benefit accrual. The accrued liability, which is determined for each Participant as of each valuation date, represents the actuarial present value of each Participant's benefit earned prior to the valuation date.

4. Changes Since Last Valuation

None

5. Rationale for Change

N/A

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX E – GLOSSARY OF GASB TERMS

1. Actuarially Determined Contribution

A target or recommended contribution for the reporting period, determined in conformity with Actuarial Standards of Practice based on the most recent measurement available when the contribution for the reporting period was adopted.

2. Actuarial Valuation Date

The date as of which an actuarial valuation is performed. This date may be up to 24 months prior to the measurement date and up to 30 months prior to the employer's reporting date.

3. Deferred Inflow of Resources

An acquisition of net assets by a government employer that is applicable to a future reporting period. In the context of GASB 68, these are experience gains on the Total Pension Liability, assumption changes reducing the Total Pension Liability, or investment gains that are recognized in future reporting periods.

4. Deferred Outflow of Resources

A consumption of net assets by a government employer that is applicable to a future reporting period. In the context of GASB 68, these are experience losses on the Total Pension Liability, assumption changes increasing the Total Pension Liability, or investment losses that are recognized in future reporting periods.

5. Entry Age Actuarial Cost Method

The actuarial cost method required for GASB Nos. 67 and 68 calculations. Under this method, the actuarial present value of the projected benefits of each individual, included in an actuarial valuation, is allocated on a level basis over the earnings of the individual between entry age and assumed exit ages. The portion of this actuarial present value allocated to a valuation year is called the Service Cost. The portion of this actuarial present value not provided for at a valuation date by the actuarial present value of future service costs is called the Total Pension Liability.

6. Measurement Date

The date as of which the Total Pension Liability and Plan Fiduciary Net Position are measured. The Total Pension Liability may be projected from the Actuarial Valuation Date to the Measurement Date. The Measurement Date must be the same as the Reporting Date for the Plan.

**MAINE PUBLIC EMPLOYEES RETIREMENT SYSTEM
CONSOLIDATED PLAN FOR PARTICIPATING LOCAL DISTRICTS
ACTUARIAL VALUATION AS OF JUNE 30, 2024**

APPENDIX E – GLOSSARY OF GASB TERMS

7. Net Pension Liability

The liability of employers and non-employer contributing entities for employees for benefits provided through a defined benefit pension plan. It is calculated as the Total Pension Liability less the Plan Fiduciary Net Position.

8. Plan Fiduciary Net Position

The fair or market value of assets.

9. Reporting Date

The last day of the Plan or employer's fiscal year.

10. Service Cost

The portion of the actuarial present value of projected benefit payments that is attributed to the current period of employee service in conformity with the requirements of GASB Nos. 67 and 68. The Service Cost is the normal cost calculated under the entry age actuarial cost method.

11. Total Pension Liability

The portion of the actuarial present value of projected benefit payments that is attributed to past periods of employee service in conformity with the requirements of GASB Nos. 67 and 68. The Total Pension Liability is the actuarial liability calculated under the entry age actuarial cost method.



PLD Consolidated Plan Advisory Committee Meeting

Maine Public Employees
Retirement System

November 5, 2024

Fiona E. Liston, FSA, EA, MAAA
Bonnie Rightnour, FSA, EA, MAAA
Greg Reardon, FSA, EA, MAAA



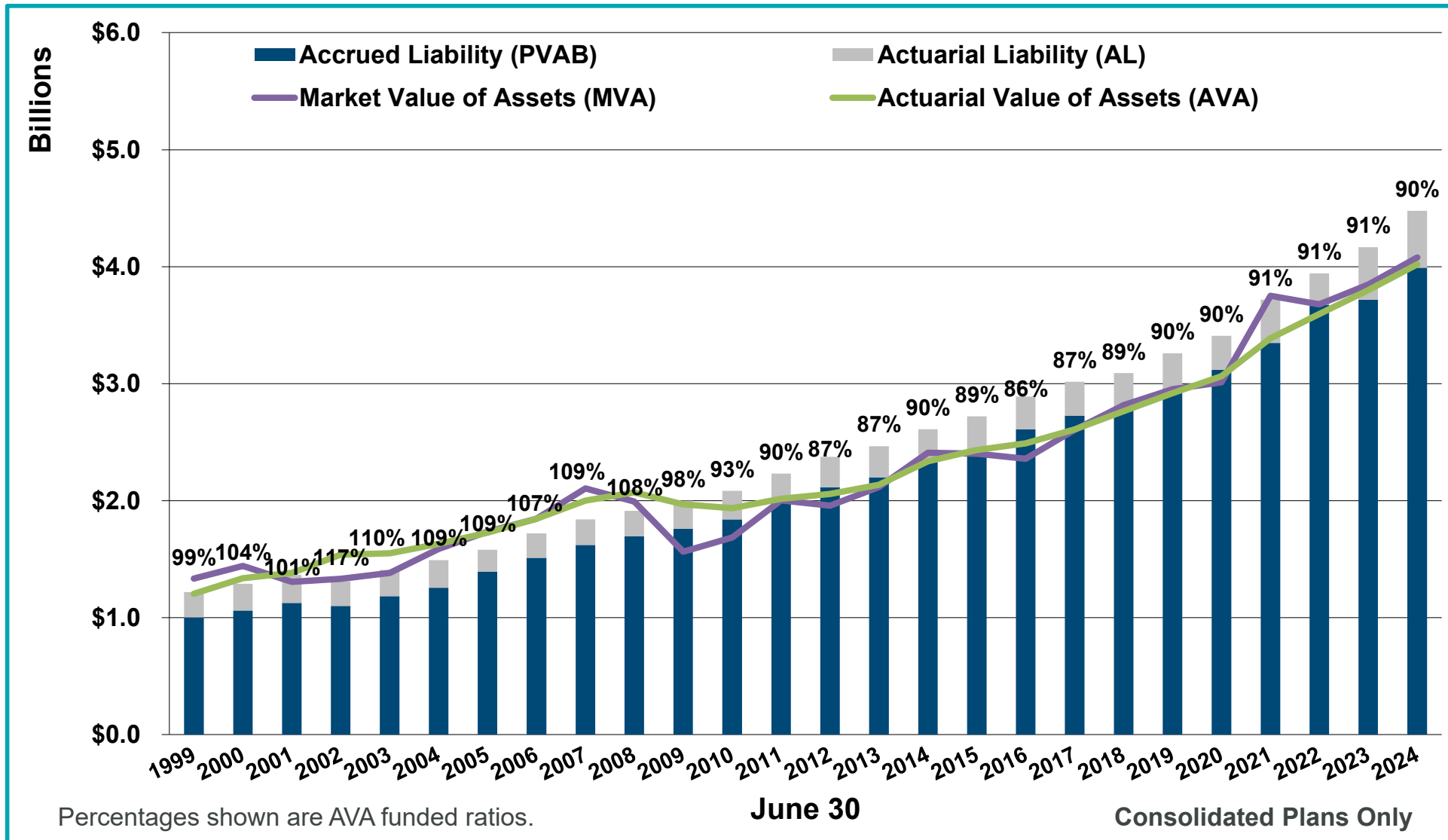
AGENDA



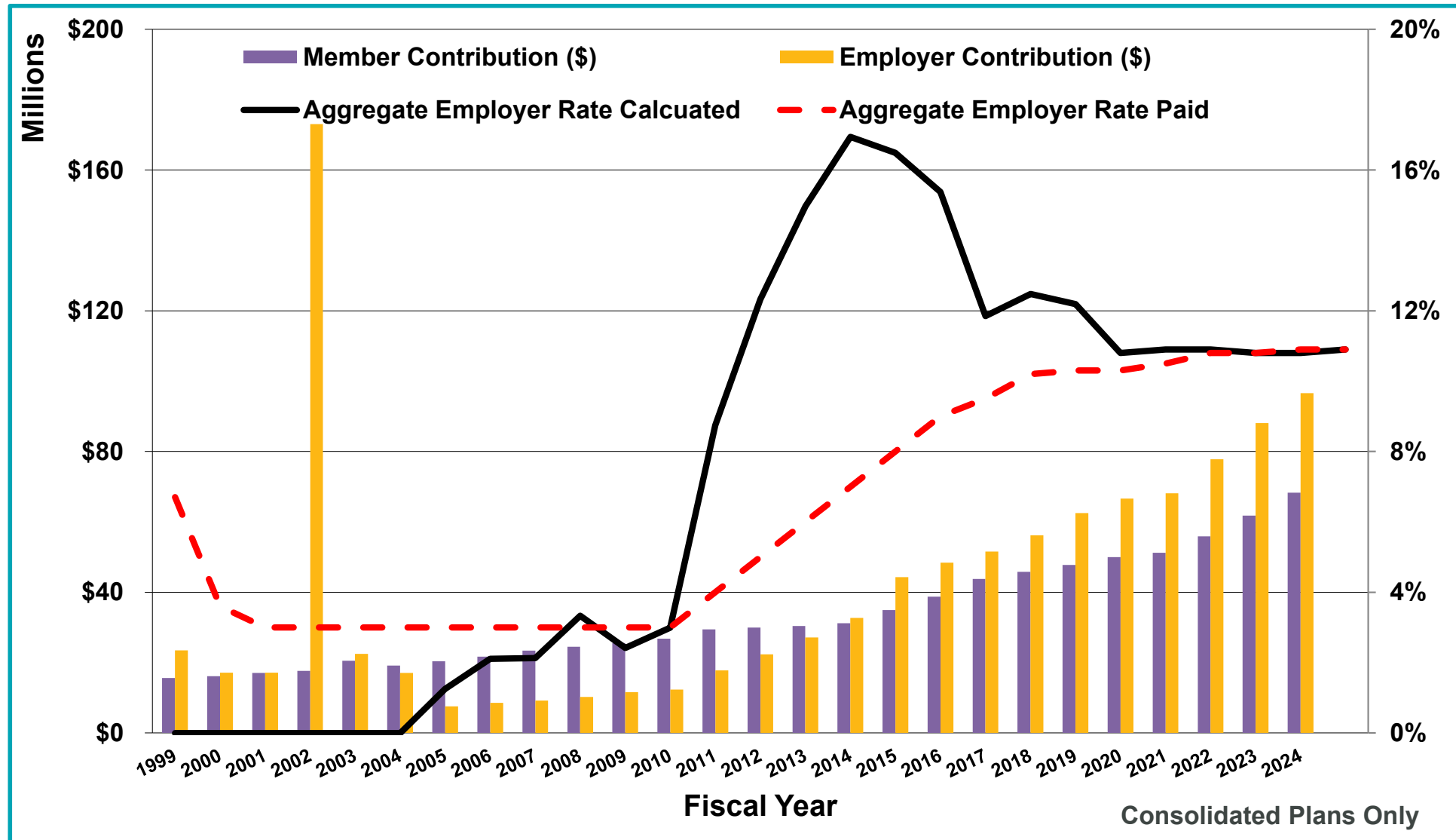
- **Historical Review**
- **June 30, 2024 Valuation Results**
- **FY 2026 Rate Development**
- **Projections**

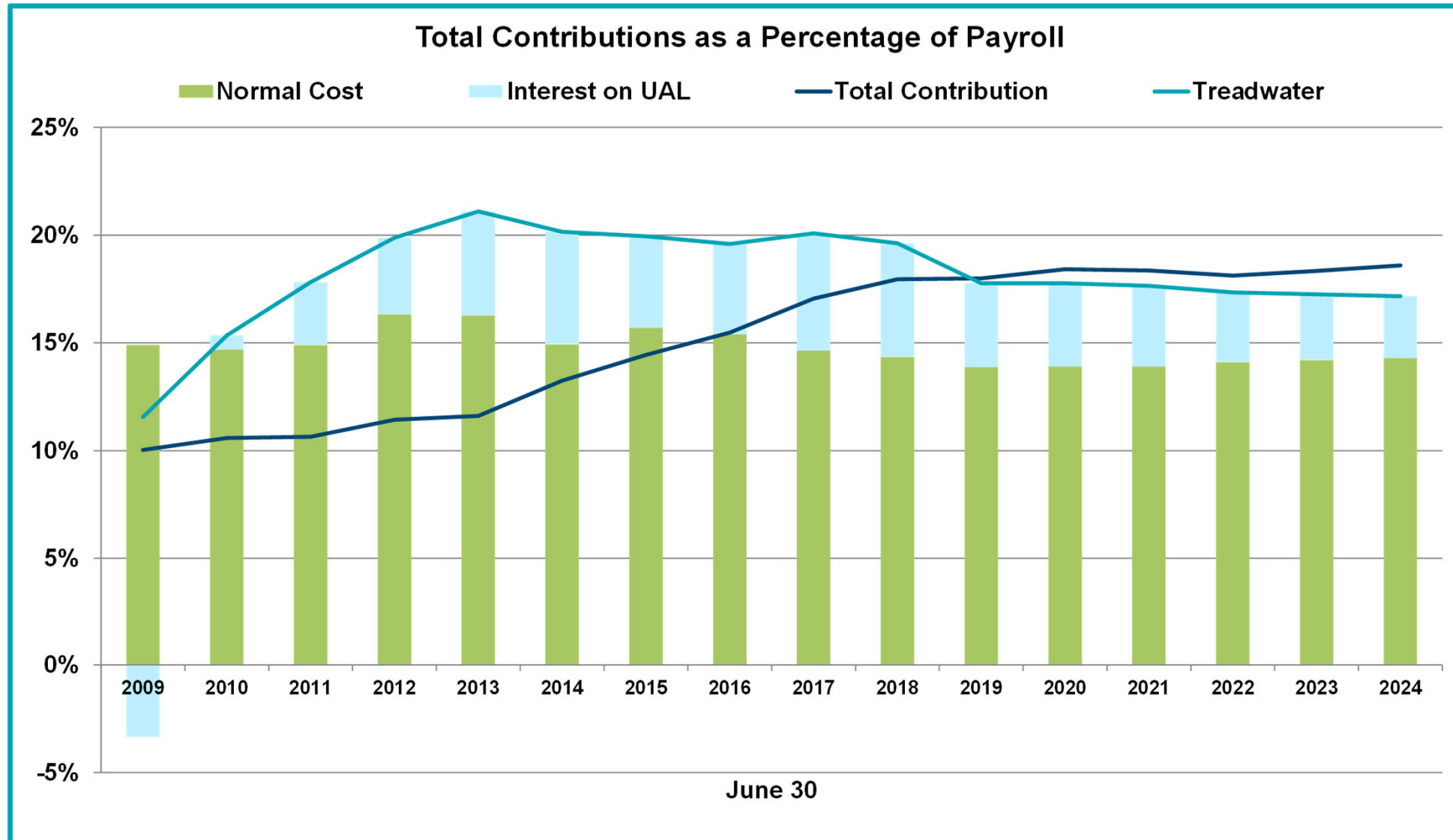


Historical Review



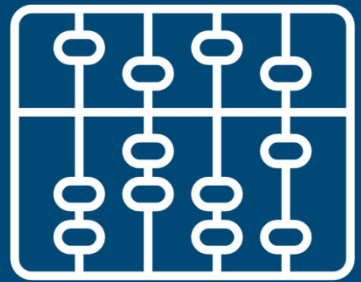
Historical Review – Contributions





**Tread Water equals Normal Cost + interest on the Unfunded Actuarial Liability*

November 5, 2024



June 30, 2024 Actuarial Valuation Results

November 5, 2024

Key Valuation Results

	June 30,		2023 to 2024
	2023	2024	
<u>Membership</u>	<u>Valuation</u>	<u>Valuation</u>	<u>% change</u>
Actives	13,122	13,561	3.3%
Payroll (\$millions)	\$ 832	\$ 909	9.3%
Average Salary	\$ 63,398	\$ 67,061	5.8%
In Pay Status	10,615	10,853	2.2%
Total Annual Benefits (\$millions)	\$ 203	\$ 216	6.2%
Average Benefit	\$ 19,159	\$ 19,894	3.8%
<u>Assets and Liabilities (\$millions)</u>			
Actuarial Liability (6.50%)	\$ 4,166	\$ 4,478	7.5%
Actuarial Value of Assets (AVA)	\$ 3,800	\$ 4,020	5.8%
Unfunded Actuarial Liability (UAL)	\$ 366	\$ 458	25.1%
AVA Funded Ratio	91.2%	89.8%	
Market Value of Assets (MVA)	\$ 3,847	\$ 4,078	6.0%
MVA Funded Ratio	92.3%	91.1%	
Accrued Liability (6.50%)	\$ 3,717	\$ 3,990	7.3%
Unfunded Accrued (using MVA)	\$ (130)	\$ (88)	32.2%
Accrued MVA Funded Ratio	103.5%	102.2%	
LDROM Liability (4.44%)	\$ 5,877	\$ 5,862	
<u>Composite Contribution Rate</u>	<u>for FY 2025</u>	<u>for FY 2026</u>	
Total Normal Cost Rate	14.3%	14.3%	
UAL Rate	4.3%	4.9%	
Total Calculated Rate	18.6%	19.2%	
Final Aggregate Employer Paid	10.8%	TBD	
Final Aggregate Member Paid	7.8%	TBD	

- Consolidated PLD investment gain of \$29.2 million
- Consolidated PLD liabilities grew by \$150.6 million more than expected
 - \$58.1 million increase due to an understatement of the liability loss in 2023
 - \$11.6 million increase due to COLA of 2.5% vs. assumed 1.91%
 - \$80.9 million increase due to other liability experience (new hires, salary higher than expected)
- Net Impact
 - UAL increased by \$91.7 million to \$457.8 million
 - Calculated Total Contribution Rate is higher by 0.6% of payroll (0.4% increase in the Employer Rate, 0.2% increase in the Member Rate)

PLD Head Counts by Plan

	<u>Active Head Counts as of 6/30/2024</u>				
	<u>Age 60</u>	<u>Age 65</u>	<u>Total</u>	<u>Payroll*</u>	<u>% of Total</u>
Regular AC	2,636	5,973	8,609	\$522.5	63.6%
Regular BC	13	34	47	3.2	0.3%
Special 1C			379	33.1	2.8%
Special 2C			1,063	80.2	7.8%
Special 3C			2,426	204.6	17.9%
Special 4C			140	9.2	1.0%
Regular AN	238	503	741	44.1	5.5%
Special 1N			15	1.2	0.1%
Special 2N			4	0.2	0.0%
Special 3N			137	11.1	1.0%
TOTAL PLAN			13,561	\$909.4	100.0%

* Payroll figures are in millions



- PLD employer and member rates for FY 2020 and beyond are based on a risk-sharing framework
 - 58% PLD, 42% member
 - Contribution capped 12.5% employer, 9% member
 - Caps apply to the aggregate rates in both cases
- Plan-specific PLD rates for each of the sub-plans
- PLD member rates for each of the Regular Plans are split into two distinct rates based on Normal Retirement Age (60 or 65). A single distinct member rate continues for each Special Plan.
- Individual Plan rates are based on the normal cost calculation for each Plan
 - Demographic movements from year to year do have an impact on these normal costs

- The next slide shows the calculated FY 26 rates
- The comparison has no restrictions on change from FY 25
- Largest increases in 1N for both PLD and Member
 - Demographic changes for this small group caused increase in normal cost rate. Increase from 12 to 15 participants with average age increasing by 4 years.

PLD Plan Rates – FY 2026 Full Amounts

	<u>FY 2025 Rates</u>			<u>FY 2026 Rates</u>			<u>DIFFERENCE</u>		
	<u>PLD</u>	<u>Member*</u>	<u>Total</u>	<u>PLD</u>	<u>Member*</u>	<u>Total</u>	<u>PLD</u>	<u>Member*</u>	<u>Total</u>
Regular AC*	9.9%	7.1%	17.0%	10.2%	7.3%	17.5%	0.3%	0.2%	0.5%
Regular BC*	5.1	3.7	8.8	5.0	3.6	8.6	(0.1)	(0.1)	(0.2)
Special 1C	14.0	10.1	24.1	14.1	10.2	24.3	0.1	0.1	0.2
Special 2C	11.8	8.5	20.3	12.1	8.8	20.9	0.3	0.3	0.6
Special 3C	12.8	9.2	22.0	13.2	9.5	22.7	0.4	0.3	0.7
Special 4C	13.0	9.4	22.4	12.9	9.4	22.3	(0.1)	0.0	(0.1)
Regular AN*	8.8	6.3	15.1	9.0	6.6	15.6	0.2	0.3	0.5
Special 1N	12.0	8.7	20.7	12.9	9.3	22.2	0.9	0.6	1.5
Special 2N	11.0	8.0	19.0	11.0	7.9	18.9	0.0	(0.1)	(0.1)
Special 3N	11.0	8.0	19.0	11.4	8.2	19.6	0.4	0.2	0.6
Aggregate	10.8%	7.8%	18.6%	11.2%	8.0%	19.2%	0.4%	0.2%	0.6%

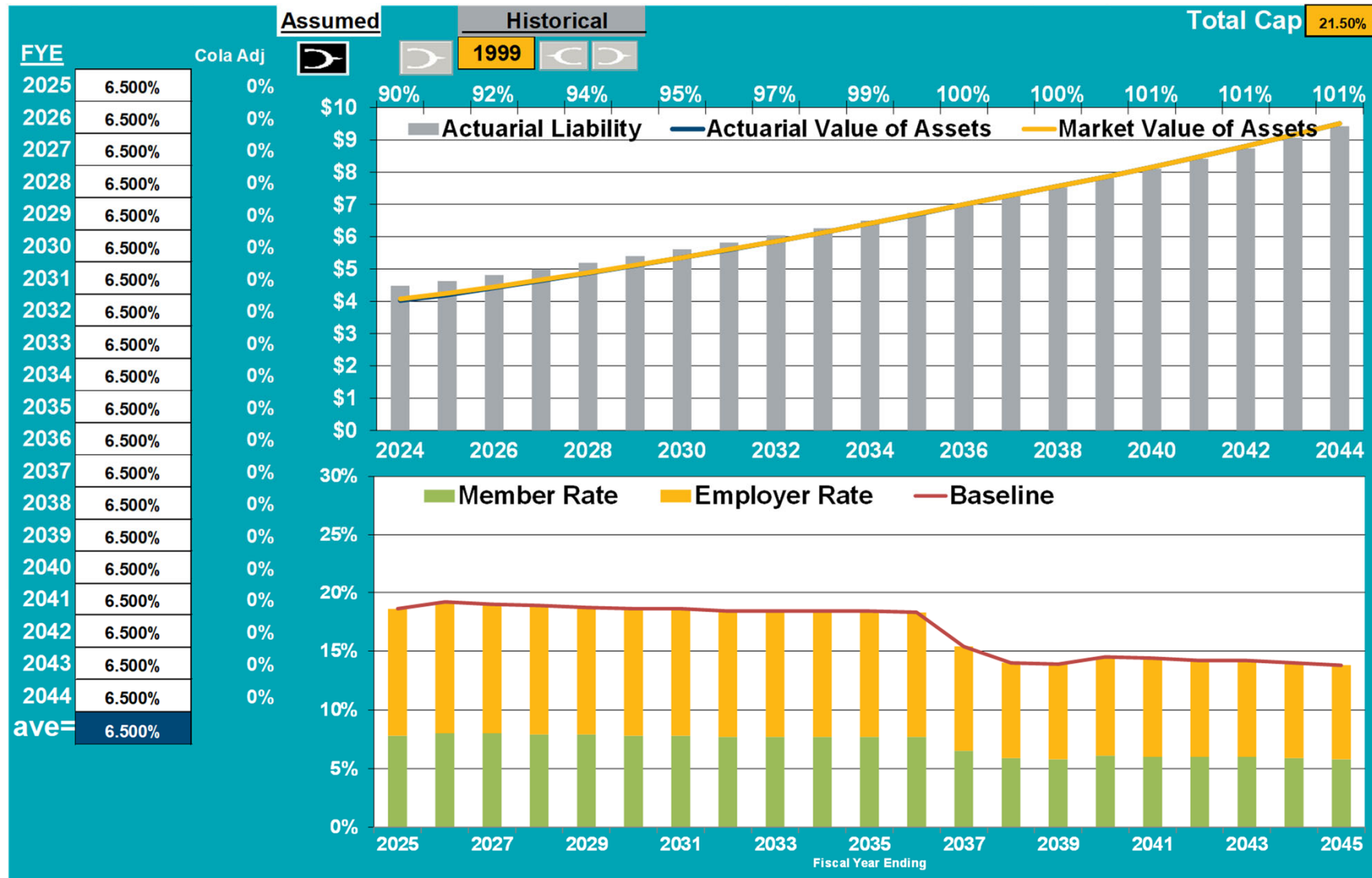
* Aggregate member rate shown. Actual rates are 0.75% lower for age 65 regular plans than age 60.

November 5, 2024



Projections

Baseline Projection

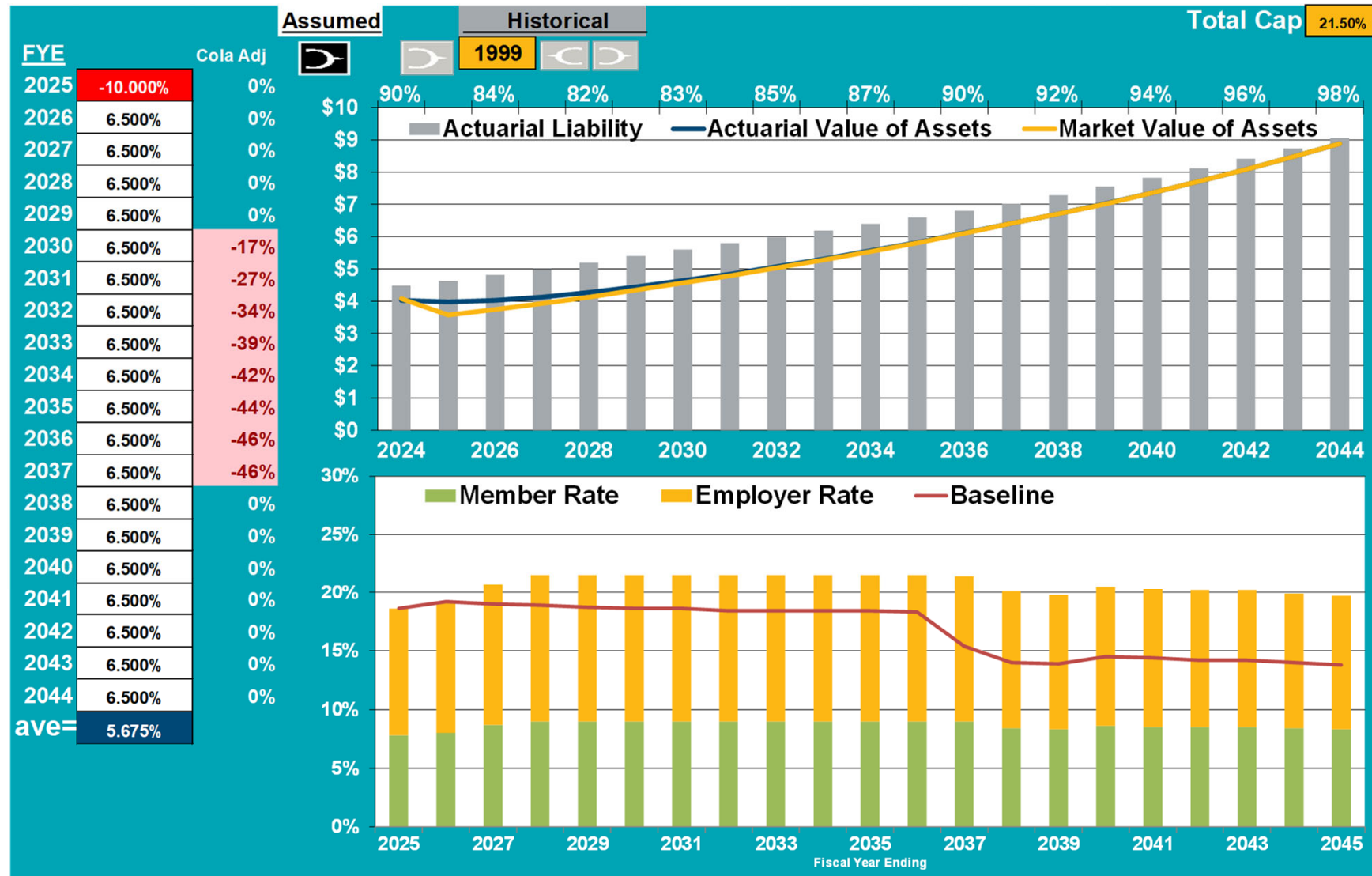


Consolidated Plans Only

November 5, 2024

- If the aggregate contribution rate developed in a given valuation exceeds the maximum level of 21.5% of payroll (currently at 19.2% of payroll) there may be a reduction in the COLA granted to retirees in an amount designed to close that gap
- For example – if the aggregate rate is calculated to be 23% of payroll
 - This is 1.5% in excess of the cap
 - If payroll is \$750 million then the contribution shortfall would be \$11.25 million
 - The amount of COLA otherwise payable to retirees would be reduced by an amount sufficient to recoup this shortfall
- This provision has not been triggered since it was instituted as part of the 2018 plan/funding changes

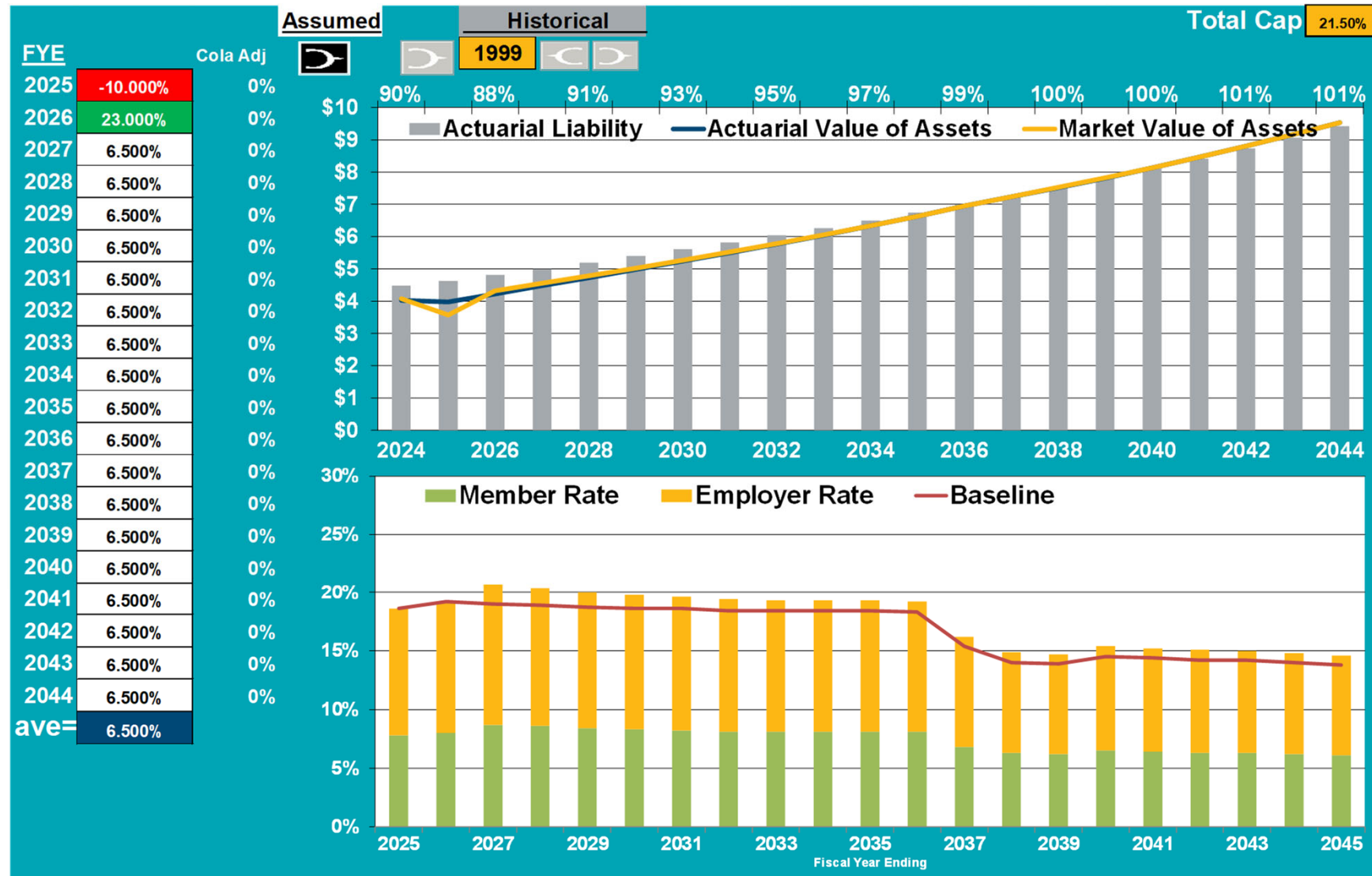
One-Year Investment Loss



Consolidated Plans Only

November 5, 2024

Loss followed by recovery



Consolidated Plans Only

November 5, 2024

In preparing this presentation, we relied on information supplied by the Maine Public Employees Retirement System. 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 actuarial assumptions, models used, data and methods are those used in the preparation of the latest actuarial valuation report prepared for this plan as of June 30, 2024.

The results of this presentation rely on future plan experience conforming to the underlying assumptions and methods outlined in the report. Future results may differ significantly from the current results presented in this presentation 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 presentation and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and 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. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this presentation. This presentation does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

Cheiron's presentation was prepared solely for the Maine Public Employees Retirement System for the purposes described therein, except that the plan auditor may rely on the report solely for the purpose of completing an audit related to the matters herein. Other users of this presentation are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to such other users.

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

Bonnie Rightnour, FSA, EA, MAAA
Principal Consulting Actuary

Greg Reardon, FSA, EA, MAAA
Principal Consulting Actuary

November 5, 2024

PLD Plan Activity Memo

Date: November 5, 2024
To: PLD Advisory Committee Members
From: Deanna Doyle, PLD Plan Administrator

New or Rejoining PLD Employers (1)				
Employer	Plan	Effective	# of Members or Potential Members	Comments
New Sweden, Town of (P0400)	Yes	2024	3	New PLD joining effective 11/1/2024 under AC for non-PST employees
Withdrawals/Partial Withdrawals (0)				
Employer	Plan	Effective	# of Members or Potential Members	Comments
Employer Plan Changes (9)				
Employer	New Plan	Old Plan	# of Members	Comments
Aroostook Waste Solutions (P0267)	AC	AC	?	Changed membership exclusions effective 10/1/2024 to include Employees working 35 hrs/wk in definition of full-time, allowing them to participate
Brewer, City of (P0063)	3C	2C	16	Adopt 3C for firefighters covered by Local 2162 IAFF Bargaining Contract for future service only effective 10/1/2024
Brewer, City of (P0063)	3C	2C	3	Adopt 3C for firefighters covered by Council No. 93 AFSCME Bargaining Contract and for non-union firefighters effective 11/1/2024
Farmington, Town of (P0100)	1C	AC	12	Adopted 1C for firefighters for future service only effective 9/1/2024
Kennebunk, Kennebunkport & Wells Water District	N/A	N/A	?	Adopted Limited Period Open Enrollment provision to begin 2025 effective 12/1/2024
Milford, Town of (P0186)	3C	AN	1	Adopt 3C for firefighters for future service only effective 8/1/2024
Standish, Town of (P0371)	3C	2C	7	Adopted 3C for firefighters, EMS and future police officers effective 9/1/2024 for future service only
Waterboro, Town of (P0356)	Adopt Limited Period Open Enrollment	N/A	?	Adopted Limited Period Open Enrollment provision to begin 2024 effective 10/1/2024
Winslow, Town of (P0362)	3C	2C	10	Adopted 3C for firefighters future service only effective 7/1/2024
Pending Plan Change Inquiries (33)				
Employer Plan	New Plan	Old Plan	# of Members	Comments
Acton, Town of (P0361)	3N or 2C	2N	4	Adopt 3N or 2C for firefighters and EMS future service only 7/1/2024
Bangor, City of (P0020)	1C or 3C	2C	63	Adopt 1C or 3C for police officers future service only
Bar Harbor, Town of (P0015)	3C	4C,AC	13, 3	Adopt 3C future service only for police and/or dispatchers for future service only
Biddeford, City of (P0158)	1C	3C		firefighters who elect to move to new plan from 3C future service only or all service

Pending Plan Change Inquiries (Continued)				
Employer Plan	New Plan	Old Plan	# of Members	Comments
Boothbay Harbor, Town of (P0146)	1C or 3C	2C	7	Adopt 1C or 3C for police officers future service only or all service effective 7/1/2024
Calais, City of (P0036)	2C	AC	12	Adopt 2C for public safety employees future service only
Camden, Town of (P0008)	3C	2C	4	Adopt 3C for firefighters and EMS for future service only
Caribou Fire & Police (P0208)	3C	N/A	?	Add coverage for new dispatchers under 3C effective 2/1/2024
Damariscotta, Town of (P0191)	2C or 3C	AC	4	Adopt 2C or 3C for police future service only
Franklin County (P0102)	Drop Open Enrollment	N/A	?	Drop limited period open enrollment provision starting in 2025
Gray, Town of (P0399)	AC	N/A	?	Add coverage for additional classifications of employees under AC
Kittery, Town of (P0014)	3C	AC	8	Adopt special plan 3C for firefighters for all service or just for service back to 7/1/2024
Kittery, Town of (P0014)	3C	AC	6	Adopt special plan 3C for dispatchers for all service or just for service back to 7/1/2024
Lincoln County (P0095) and Lincoln County Sheriffs (P0302)	3C & 2C	3C & 2C	N/A	Action to merge PLDs into one under P0095 effective 1/1/2025
Lisbon, Town of (P0103)	3C	AC	1	Adopt 3C for all service prior to 7/1/2022 for non-union firefighters
Mt. Desert, Town of (P0016)	3C	2C & AC	19+	Adopt 3C for all service for current police (including harbor masters), firefighters and dispatchers
Mt. Desert, Town of (P0016)	Adopt Open Enrollment	N/A	?	Adopt open enrollment in time for 2025
Northern Oxford Regional Ambulance Service dba Med-Care Ambulance	Adopt Group Life Insurance	N/A	17	Adopt group life insurance program for employees
Orono, Town of (P0061)	Adopt Open Enrollment	N/A	?	Adopt open enrollment in time for 2025
Paris, Town of (P0127)	3C	2C	6	Adopt 3C for police effective 9/1/2024 for future service only
Penobscot County (P0011)	3C	2C,AC	45,26	Adopt 3C for law enforcement officers and/or dispatchers future service only
Phippsburg, Town of (P0202)	Adopt Open Enrollment	N/A	?	Adopt Limited Period Open Enrollment provision to begin 2024
Regional School Unit No. 20	AC	N/A	1	Add coverage for Director of Buildings, Grounds & Transportation under AC effective 7/1/2024
RSU #29 - MSAD #29 (P0168)	AC	AC	5	Add coverage for non-Teacher plan management team administrators under AC
RSU #39 (P0332)	AC	AC	2	Add coverage for full-time central office staff under AC
RSU #49 - MSAD #49 (P0189)	AN	N/A	5	Add coverage for additional classifications of school support employees and/or adopt open enrollment
Sanford Sewerage District (P0089)	AC	AN	13	Adopt COLA for future service only or for all service
Southwest Harbor, Town of (P0368)	2C or AC	N/A	1	Add coverage for Town Manager under 2C or AC
Union, Town of (P0342)	Adopt Group Life Insurance	N/A	?	Adopt group life insurance program for employees
Waterville, City of (P0066)	3N, 2C or AC	N/A	?	Add coverage for public safety dispatchers under 3N, 2C or AC
Wiscasset, Town of (P0417)	3C	2C	4	Adopt 3C future service only for Police effective 12/1/2024

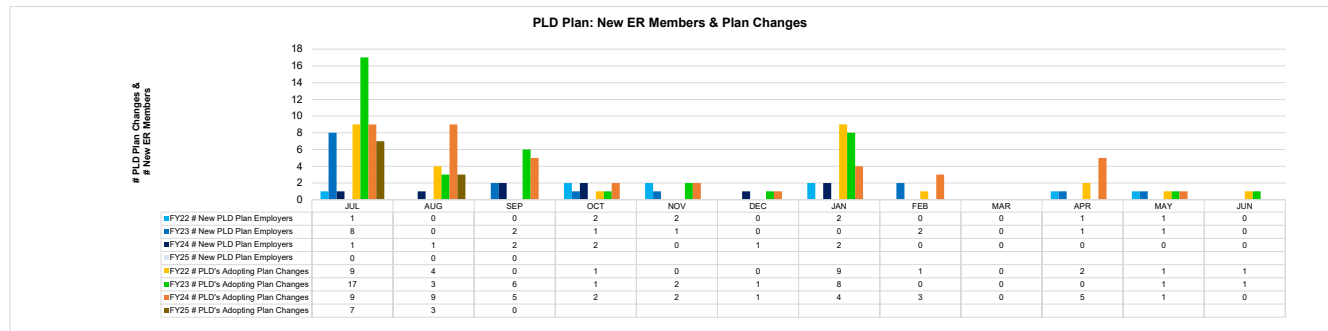
Pending Plan Change Inquiries (Continued)				
Employer Plan	New Plan	Old Plan	# of Members	Comments
Yarmouth, Town of (P0116)	Adopt Limited Period Open Enrollment	N/A		Adopt open enrollment in time for 2025
Yarmouth, Town of (P0116)	3C	1C	9	Adopt 3C from 1C future service only for firefighters and EMS employees future service only - existing EES will make election to remain in 1C or move to 3C and new hires will be under 3C

Pending New or Rejoining PLD Employer Inquiries (28)				
Employer	In Addition to SS?	Effective	# of Potential Members	Comments
Arundel, Town of	Yes	2022	?	New - Join for fire/EMS
Belmont, Town of	No	2024	?	New
Boothbay Region Ambulance Service	No	2024	?	New but determined did not qualify to join - not a Local District
Canaan, Town of	Yes	2024	3 FT, 17 PT	New
Cape Elizabeth, Town of (P0085)	Yes	2024	1	Rejoin under Consolidated Plan for Town Manager under AN
Casco, Town of	Yes	2024	?	New
Castine, Town of	Yes	2024	1	New - Join for Town Manager
Central Maine Highlands Fire & EMS District 1	No	2025	?	New
Clifton, Town of	No	2024	2	New
Fiddlehead School	No	2024	?	New
Gouldsboro, Town of	Yes	2023	?	New - Join for police & harbor masters
Lake Stewards of Maine	?	2024	?	New PLD if qualify as Local District
Maine Indian Tribal-State Commission	?	2025	2	New PLD if qualify as Local District
Mid-Coast Solid Waste Corp.	No	2024	?	New
Mi'kmaq Nation	No	2024	?	New
Minot, Town of	Yes	2024	?	New
Newburgh, Town of	Yes	2024	?	New
Orono Veazie Water District	Yes	2024	5	New
Parsonsfield, Town of	Yes	2024	3	New

Pending New or Rejoining PLD Employer Inquiries (CONTINUED)				
Employer	In Addition to SS?	Effective	# of Potential Members	Comments
Passamaquoddy Indian Township Reservation	Yes	2024	?	New PLD
Passamaquoddy Pleasant Point Reservation	Yes	2024	?	New PLD
Penobscot Nation Warden Service	?	2024	?	New PLD - Need to determine if under Indian Tribal Government
Presque Isle Industrial Council	No	2025	3	New PLD - also wants 457 Plan with MaineStart & GLI
Regional School Unit No. 22	Yes	2024	?	New School Support PLD
RSU #56	?	2024	?	New School Support PLD
RSU #70 dba MSAD #70	Yes	2024	?	New School Support PLD
School Union #69 Appleton	?	2024	?	New School Support PLD if qualifies as Local District - Researching
Winterport, Town of	?	2024	?	New

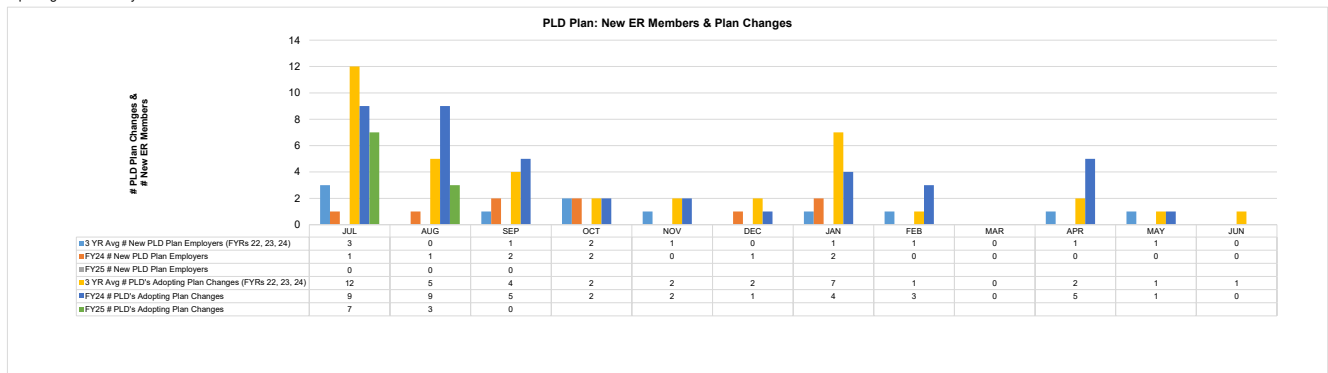
Active Withdrawal /Partial Withdrawal Inquiries (2)				
Employer	In Addition to SS?	Effective	# of Potential Members	Comments
Midcoast Council of Governments (P0343)	No	TBD	?	Wants to make full withdrawal, have not be administering plan appropriately for several years so need to resolve membership issues first
Milford, Town of & Milford School Dept (P0186, P0186A)	Yes	?	?	Considering excluding school support staff going forward - currently 0 school support staff participating - Town and School decided not to pursue withdrawing in 2024 but may do so in 2025

PLD Plan



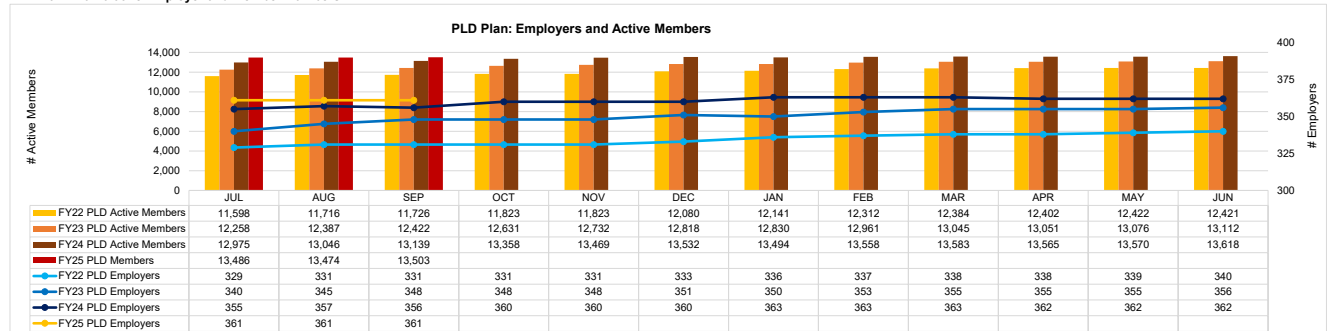
PLD Plan: Number of new employers joining the PLD Retirement Program and number of employers making plan changes.

Note: This metric has transitioned to reflect PLD employer changes (joining, returning, adopting plan changes) in the month of their implementation. Prior reporting included PLD changes occurring in future months. This new format is consistent with MainePERS activity reporting to our actuary.

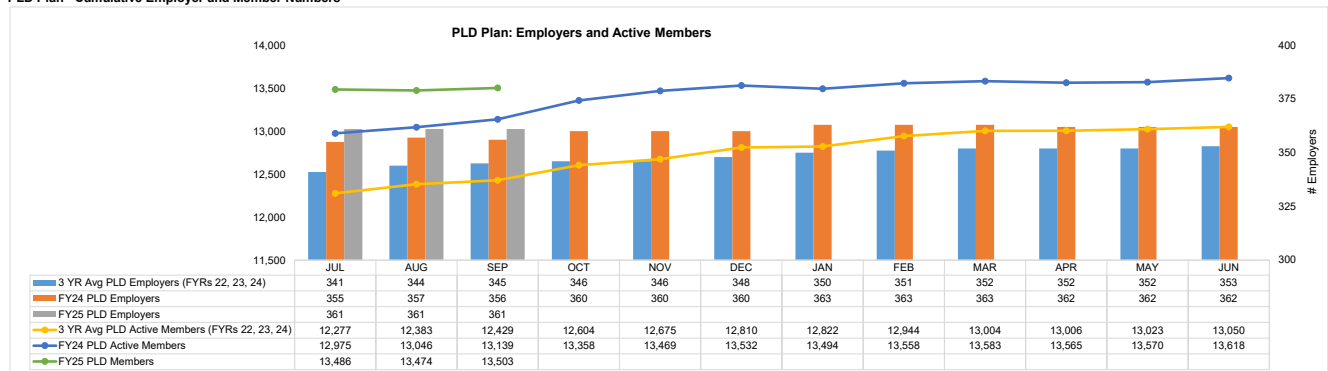


PLD Plan: 3 year average includes FY22, FY23 and FY24 for the number of new employers joining the PLD Retirement Program and number of employers making plan changes against fiscal years 2024 and 2025.

PLD Plan - Cumulative Employer and Member Numbers

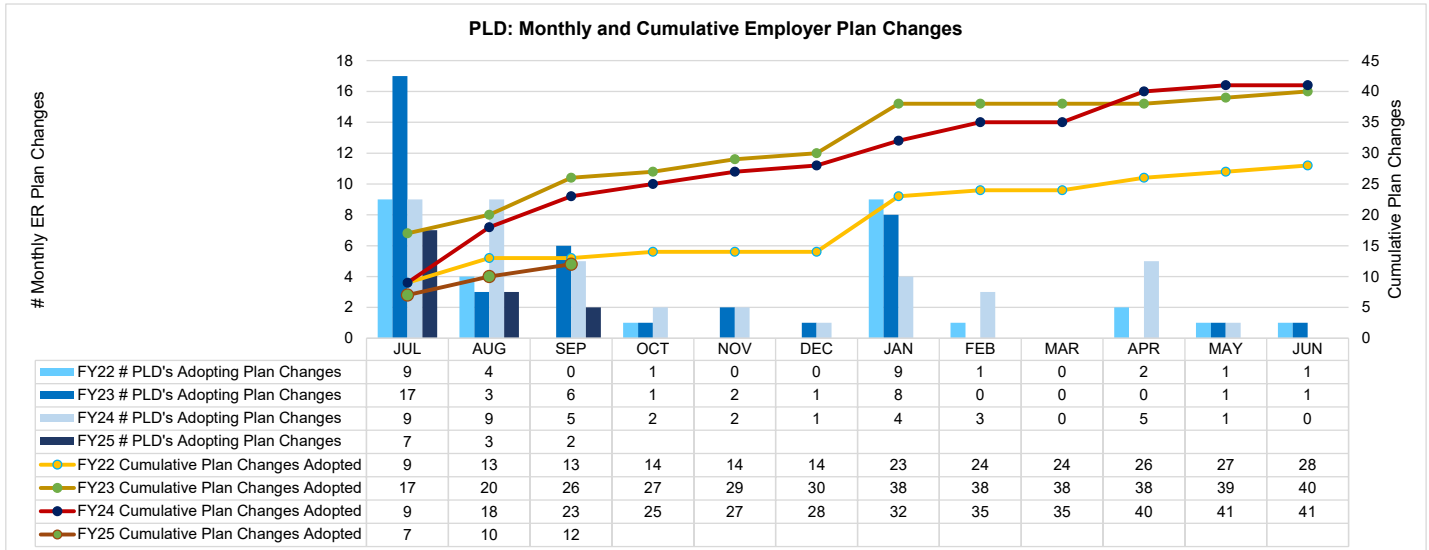


PLD Plan - Cumulative Employer and Member Numbers

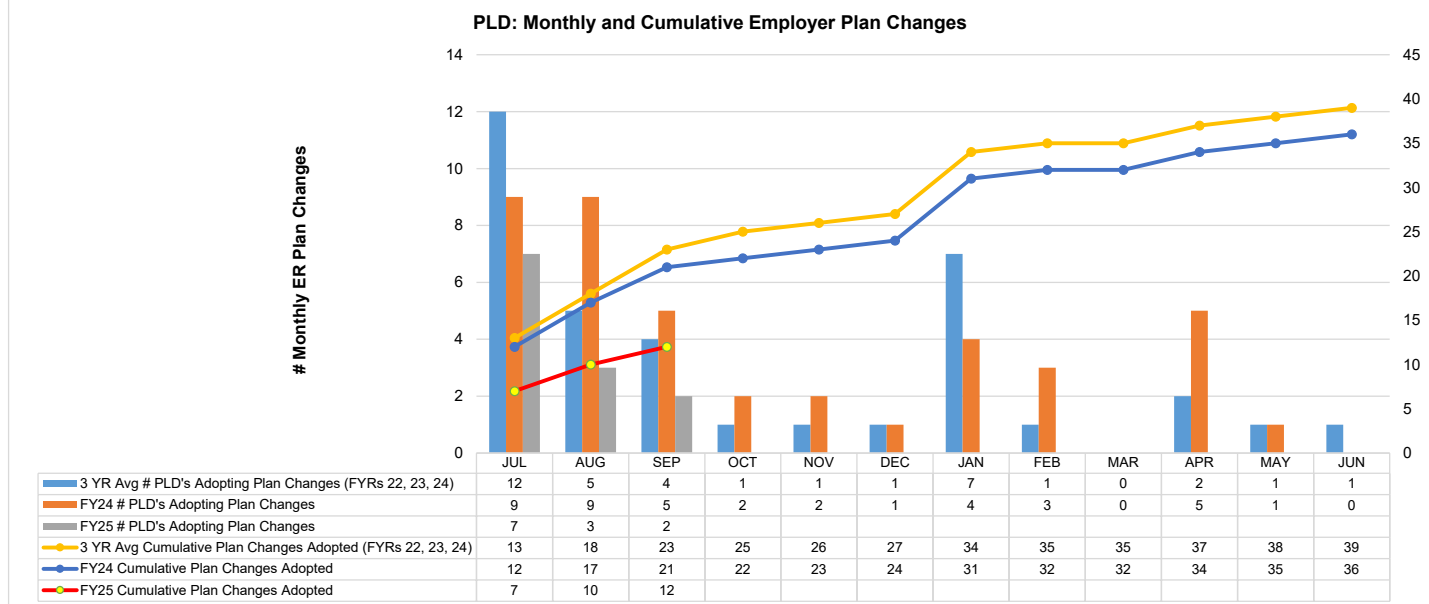


PLD Plan Employers and Active Members: 3 year average includes FY22, FY23 and FY24 for the number of employers in the PLD Retirement Program and number of active members against fiscal years 2024 and 2025.

PLD Plan - Monthly and Cumulative Employer Plan Changes



PLD Plan - Monthly and Cumulative Employer Plan Changes



Monthly and Cumulative Employer Plan Changes: 3 year average includes FY22, FY23 and FY24 for the number of employers in the PLD Retirement Program and number of active members against fiscal years 2024 and 2025.