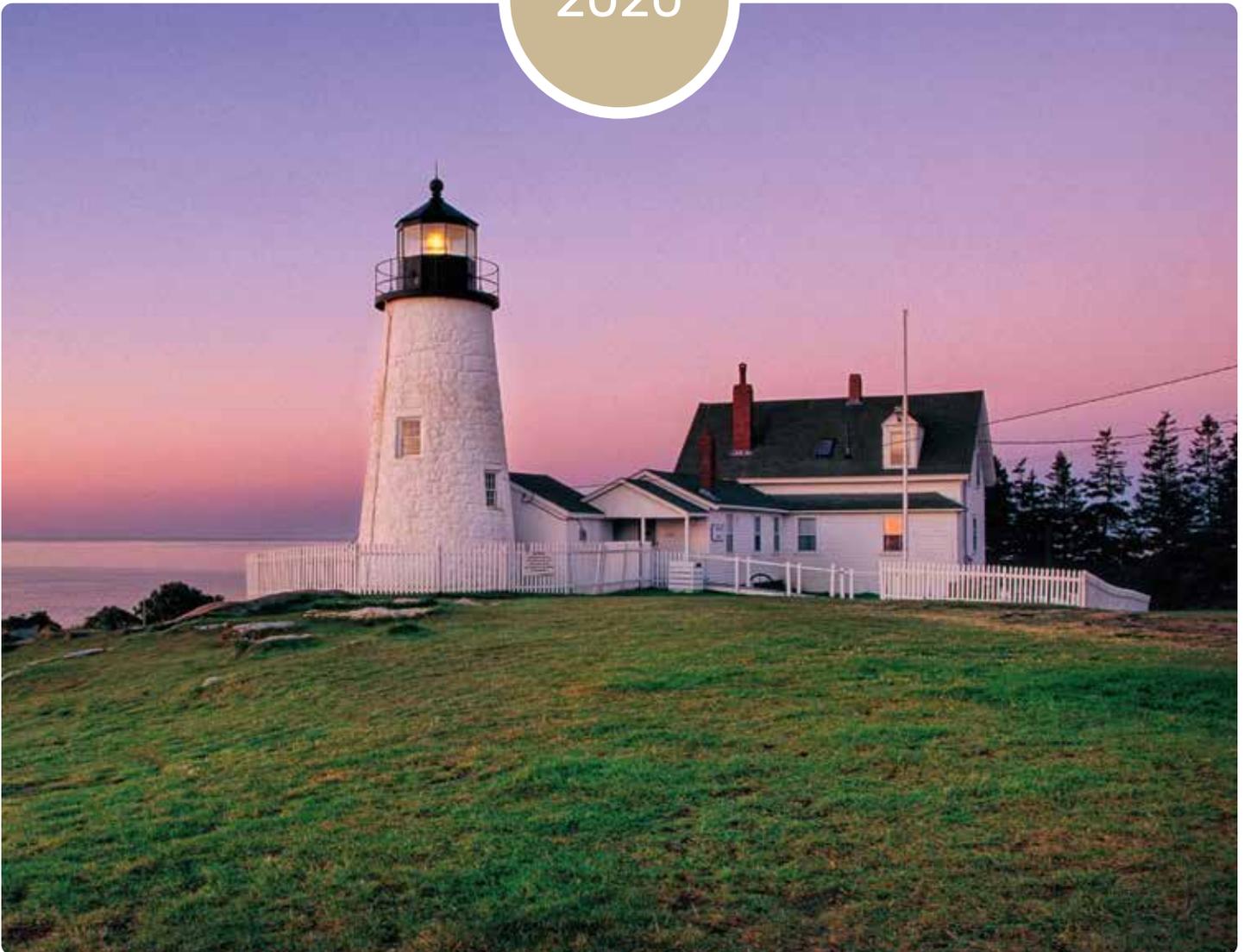


COMPREHENSIVE ANNUAL FINANCIAL REPORT

For the Fiscal Year Ended June 30, 2020

2020



Comprehensive Annual Financial Report

For the fiscal year ended June 30, 2020

Maine Public Employees Retirement System

A Component Unit of the State of Maine

P.O. Box 349, Augusta, Maine 04332-0349

This report has been produced as required by 5 M.R.S.A. §17102 (10), which states that the Maine Public Employees Retirement System must publish an annual report showing “the fiscal transactions of the retirement system for the fiscal year and the assets and liabilities of each of the programs of the retirement system at the end of the fiscal year; and the actuary’s report on the actuarial valuation of the financial condition of each of the programs of the retirement system for the fiscal year.”

This report was prepared by the Financial, Administrative and Investment staff of the Maine Public Employees Retirement System. Costs for producing this report were paid from the operating budget of the Maine Public Employees Retirement System.

This CAFR is printed and also made available online.



Government Finance Officers Association

Certificate of Achievement
for Excellence in Financial Reporting

Presented to

Maine Public Employees Retirement System

For its Comprehensive Annual Financial Report
For the Fiscal Year Ended June 30, 2019

Christopher P. Morill

Executive Director/CEO



Public Pension Coordinating Council

Recognition Award for Funding
2020

Presented to

Maine Public Employees Retirement System

In recognition of meeting professional standards for plan funding
as set forth in the Public Pension Standards.

Presented by the Public Pension Coordinating Council, a confederation of

National Association of State Retirement Administrators (NASRA)
National Conference on Public Employee Retirement Systems (NCPERS)
National Council on Teacher Retirement (NCTR)

Alan H. Winkle

Alan H. Winkle
Program Administrator

MainePERS Comprehensive Annual Financial Report
For the fiscal year ended June 30, 2020

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Introductory Section



West Quoddy Head Lighthouse, Lubec

Letter of Transmittal

December 29, 2020

I am pleased to present the Comprehensive Annual Financial Report (“CAFR” or “Annual Report”) of the Maine Public Employees Retirement System (“MainePERS” or the “System”) for the fiscal year ended June 30, 2020 in accordance with the requirements of 5 M.R.S.A. §17102. This CAFR, taken as a whole, provides information on all aspects of the System. It is written to conform to Governmental Accounting Standards Board (GASB) requirements. Management of the System takes full responsibility for the accuracy, completeness and fairness of the representations made in this report.

Berry, Dunn, McNeil & Parker, LLC, has issued an unmodified opinion on the MainePERS’ financial statements for the year ended June 30, 2020. The independent auditor’s report is located at the front of the financial section.

Management’s discussion and analysis (MD&A) immediately follows the independent auditor’s report and provides a narrative introduction, overview and analysis of the basic financial statements. MD&A complements this letter of transmittal and should be read in conjunction with it.

Funding of System Programs

The System administers seven retirement programs, often referred to as “plans.” In addition, the System operates a Group Life Insurance Program (GLI) providing life insurance coverage for both active employees and for retirees, and a program of defined contribution retirement plans under sections 401(a), 403(b) and 457(b) of the Internal Revenue Code, collectively referred to as MaineSTART. The System also manages the Retiree Health Insurance Post Employment Investment Trust on behalf of the State of Maine. This is an irrevocable trust established for the purpose of accumulating assets to provide funding for the State’s liability for retiree health benefits. Assets for the purpose of providing funding for the liability for retiree health and other post-employment benefits (OPEB) for the System’s employees are held in the MainePERS OPEB Trust, also administered by the System.

The System’s defined benefit retirement programs are the dominant element in its financial activities and position. The four major programs are the State Employee and Teacher Retirement Program, the Judicial Retirement Program, the Legislative Retirement Program and the Participating Local District (PLD) Consolidated Retirement Plan. In addition, the System continues to administer ten closed single-employer plans on behalf of participating local districts who at the time of consolidation, opted not to join the PLD Consolidated Plan. These plans are collectively referred to as the PLD Agent Plan.

The System also administers two pay-as-you-go retirement programs, one for judges who retired prior to the establishment of the Judicial Retirement Program in 1984 and the other for former governors and their surviving spouses. The programs are funded each biennium by a direct appropriation from the Legislature and, in the case of the active governor, by employee contributions required by statute.

The basic defined benefit retirement plan funding equation provides that, over the long term, contributions plus investment earnings must be equal to benefit obligations. While investment market performance affects plan funding levels and funding requirements, it does not affect benefit obligations.

The return on invested contributions has historically supplied a significant amount of the benefit funding resources of defined benefit plans. In periods when the investment markets provide lower returns than expected, the resulting funding shortfall has historically been supplemented by a combination of increased employer contributions and investment market returns in other periods that exceeded expectations. For this reason, the performance of the investment markets is a significant factor affecting the financial activities or position of the System, and the effects of market performance flow through to contributions made by participating employers.

The recent two-decade low-interest environment has affected the potential volatility of employer contributions. This is because low-interest rates means that the fund is no longer able to earn attractive returns from relatively safer fixed-income assets, and as a result is more reliant on earnings from riskier assets, such as equities. As interest rates have fallen and to help maintain employer contribution stability, the trust fund has decreased its earnings assumption by 1.25% (from 8% to 6.75%) and shifted assets away from fixed-income. At the same time the trust fund has increased diversification by including more private market investments, thereby avoiding a concentration in public equity investments.

Letter of Transmittal

As with all actuarially-funded defined benefit plans, the System uses actuarial methods and procedures that integrate short-term market behavior with the long-term time horizon of the plan. One of these methods is “smoothing” of investment results which moderates the volatility of employer contribution requirements.

The interplay of liabilities (i.e., the obligation to pay benefits) and assets (i.e., contributions and investment earnings on contributions) can be observed in changes in the programs’ actuarial funded ratios over time. The funded ratio of the State Employee and Teacher Retirement Program had improved steadily from 1990 through 2008. Substantial investment losses in fiscal years 2008 and 2009 reduced the funding ratio. Fiscal years 2010 and 2011 experienced strong investment returns, and in combination with changes to plan provisions, the funding ratio again improved. Subsequent market gains and losses resulted in a funding ratio of 82.2 percent as of the end of fiscal year 2015. Low investment returns in fiscal years 2014 and 2015 reduced the funding ratio to 80.4 percent as of June 30, 2016, and subsequent gains increased it to 80.9 percent as of June 30, 2017 and 81.4 percent as of June 30, 2018 as investment returns increased. As of June 30, 2020, the funding ratio was 82.4 percent, up slightly from 81.8 percent as of June 30, 2019.

The funded ratio of the Judicial Retirement Program has in recent years remained close to 100 percent. The funded ratio as of June 30, 2013 was 97.5 percent. In fiscal year 2014, the funded ratio of the plan increased to 101.6 percent and as of June 30, 2015 the funded ratio was 96.9 percent. The funded ratio of this plan increased again as of June 30, 2016 to 100.9 percent; as of June 30, 2017, the funded ratio rose to 102.7 percent. There was a slight decrease in the funded ratio at June 30, 2018 when it was 102.4 percent. As of June 30, 2020, the funding ratio was 103.6 percent, down from 105 percent at June 30, 2019.

The funded ratio of the Legislative Retirement Program has been above 100 percent for many years, and continues this year due primarily to member turnover in the Plan created by term limits. As of June 30, 2020, the funded ratio was 140.6 percent, compared to 144.4 percent at June 30, 2019 and 146.3 percent at June 30, 2018.

The funded ratio of the Participating Local District Consolidated Retirement Plan was 89.9 percent as of June 30, 2020. This compares to 89.6 percent as of June 30, 2019 and 89.5 percent as of June 30, 2018. Information concerning the funded status of the non-consolidated participating local district plans administered by the System is available by contacting the System.

Information regarding overall funding progress appears in the MD&A beginning on page 20. More information on the funding levels of all of the System’s retirement programs can be obtained from the System.

The System’s defined contribution plans, collectively called MaineSTART, provide an important supplement for our defined benefit participants and a valuable alternative for other participants. MaineSTART offers a family of funds from Vanguard designed to be low cost and easy for participants to manage. The investment strategy for these assets is determined by each participant.

The Group Life Insurance Program is funded by premiums paid by its participants and the employers of those participants, and by investment returns on the Group Life Insurance Program assets. The investment strategy for these assets is a similar strategy to the strategy employed for the defined benefit programs’ assets.

The Retiree Health Insurance Post Employment Investment Trust is funded through direct appropriations from the State of Maine.

Investments

The basis of the investment policy is the mix of investment types in which assets are invested and the allocation of assets among asset classes. The System’s Board of Trustees (Board) is responsible for establishing the policy that is the framework for investment of the programs’ assets. The Board employs in-house investment professionals and outside investment consultants to advise it on investment matters, including policy.

The defined benefit program had a return of 1.8% while the group life insurance program had a return of 6% for fiscal year 2020. Total value of the defined benefit portfolio remained flat at \$15.1 billion at June 30, 2020 as compared to June 30, 2019. The positive returns for the year were offset by the negative cash flow experienced by the mature defined benefit programs.

Letter of Transmittal

The current target asset allocation was last modified in September 2017 to increase investments in alternative strategies such as private equity, private credit, infrastructure, real estate, natural resources and risk diversifiers.

The Board's choice of asset classes reflects its assessment of expected investment returns and the nature, level and management of risk. The defined benefit programs' assets perform two functions; they collateralize the benefits owed to participants, and they provide investment earnings. All benefit payments must eventually be funded from a combination of contributions and investment earnings.

Highlights of the Past Year

In March of 2020, MainePERS closed its office buildings to the public as a result of the COVID-19 pandemic. All staff except those required to perform their work in the buildings were sent home. Available equipment was identified and approximately 20% of staff were able to immediately begin working remotely. Incremental numbers of staff began working remotely as additional equipment was purchased. All personnel were again working by May of 2020.

To support remote work, a new previously researched cloud based telephone system planned for implementation in 2021 was deployed in July, 2020, allowing remote staff to conduct business without interruption. MainePERS continues to have approximately 80% of its workforce working remote either full or part-time.

Acknowledgments

We are pleased to acknowledge that for the sixteenth consecutive year, the System was awarded the Certificate of Achievement for Excellence in Financial Reporting by the Government Finance Officers Association ("GFOA"). In order to be awarded a Certificate of Achievement, a governmental unit must publish an easily readable and efficiently organized Comprehensive Annual Financial Report ("CAFR"), with contents that meet or exceed program standards. We are pleased to share that we are recognized for handling and accounting for retirement funds in a manner that conforms to generally accepted accounting practices and all applicable legal requirements. We fully expect to be in compliance with all of the Certificate of Achievement program requirements into the future. This 2020 CAFR will also be submitted to the GFOA.

The System, through its management staff, is responsible for establishing and maintaining an internal control structure that is designed to provide reasonable assurance that assets are protected from theft, fraud, or misuse and that financial recordkeeping is transparent, complete and accurate. The concept of reasonable assurance recognizes that the cost of a control should not exceed the benefits likely to be derived and that the valuation of costs and benefits requires estimates and judgments by management. Management believes that the existing internal controls accomplish these objectives. Management is also responsible for the completeness, accuracy and fair presentation of financial information and for all disclosures. This responsibility notably encompasses the System's financial statements themselves, including the amounts therein that, necessarily, are based on estimates and judgments.

The preparation of this report has been a collaborative effort of Executive Management, the Accounting and Finance Department, the Investment Department and the Communications Department. The System takes responsibility for all of the information contained in the report and confidently presents it as a basis for the many decisions of the Board of Trustees, staff, and others who will rely on it.

I am joined in transmitting this Comprehensive Annual Financial Report to all of our constituencies by the System's Director of Finance.

Respectfully submitted,



Sandra J. Matheson
Executive Director



Sherry Tripp Vandrell
Director of Finance

Appendix A to Letter of Transmittal

Overview of the System

The Maine Public Employees Retirement System (MainePERS) is an independent public agency of the State of Maine that traces its history to 1942. By the authority granted to it by the Maine Legislature, the System administers seven defined benefit retirement programs that cover State employees, the State's public school teachers, judges, legislators, and employees of the 307 municipalities and other public entities, called "participating local districts" (PLDs) that have chosen to provide retirement plans to their employees through MainePERS. The System is also responsible for the payment of retirement and survivors' benefits to former governors and their surviving spouses and to former judges who retired prior to the establishment of the Judicial Retirement Program in 1984 and their surviving spouses. In addition, the System administers a Group Life Insurance Program that provides or makes available life insurance benefits for active and retired State employees and teachers, judges, and legislators as well as employees of those PLDs who have chosen to offer the Group Life Insurance Program. The System also administers defined contribution plans for eligible employers who choose to participate in the plans.

Board of Trustees

Responsibility for the operation of the Maine Public Employees Retirement System rests with the System's Board of Trustees, which is comprised of eight members. State law specifies the Board's composition. With the exception of the State Treasurer, each trustee is subject to the legislative confirmation process. Three trustees are System members, one of whom is proposed and elected by the Maine Education Association, one of whom is proposed and elected by the Maine State Employees Association, and one of whom is a PLD member appointed by the governing body of the Maine Municipal Association. Four other trustees are appointed by the Governor. Of these, one must be selected by the Governor from a list of nominees submitted by the Maine Retired Teachers Association and one must be a MainePERS retiree selected from a list of nominees submitted by State and/or PLD retirees. The remaining two appointees are direct gubernatorial appointments, both of whom must be qualified through training or experience in investments, accounting, banking, insurance or as actuaries. All appointed trustees are required to have "a working knowledge of retirement policy and legal issues and a general knowledge and understanding of banking, finance, and investment practices." The eighth trustee is the State Treasurer, who serves ex-officio. All trustee terms are three years, except for the two-year term of the State Treasurer. The Board annually elects its chair and vice chair from among its members.

The MainePERS Trustees serve as Trustees of the State and Teacher, Judicial and Legislative Retirement Programs as well as for the PLD Consolidated Program, the Group Life Insurance Programs, the Defined Contribution Plans, and the Retiree Health Insurance Post-Employment Benefits Investment Trust.

The Board contracts for the services of an actuary to prepare annual valuations of the assets and liabilities of each of the retirement programs administered by the System. The actuary also provides information and recommendations as to sound and appropriate actuarial assumptions, which are utilized, together with valuation information, to determine the programs' funding requirements. The System's actuary in fiscal years 2019 and 2020 was Cheiron, Inc.

The Board's management of MainePERS investments is embodied in its investment policy. The policy states the Board's underlying investment objectives, sets out the investment strategies intended to realize the objectives, and establishes guidelines and criteria for implementation of the strategies. The Board has engaged Cambridge Associates to advise it on the investment policy and the administration of the investment program.

The Board is the final administrative decision maker in matters involving the rights, credits, and benefits of members. It has established an administrative appeals process for the making of such decisions; in this process relevant factual information and legal requirements are identified and analyzed by independent Hearing Officers who serve under contract. In decisions on disability retirement appeals, statutorily established medical boards and individual medical advisors provide recommendations as to the medical aspects of disability. The Board's final administrative decisions are appealable to the Maine Superior Court.

Administration

The Office of the Executive Director has administrative responsibility for all aspects of the System and its operations. The Executive Director oversees all actuarial work and investments, and has administrative responsibility for the internal audit function. Actuarial work is carried out with the assistance of an actuary; investment operations are carried out with the assistance of the System's Chief Investment Officer and staff, one or more investment consultants, investment

Appendix A to Letter of Transmittal

managers and other appropriate advisors. In addition, the Office performs the executive functions of the System and has day-to-day responsibility for legal and legislative matters, appeals, federal, state, and local governmental relations, planning, organizational development, accounting and financial reporting, and numerous special projects.

The Department of Service Programs administers the service and disability retirement programs, MaineSTART defined contribution plans, survivor benefit and group life insurance programs. The Department is the System's primary contact for members, participating employers, and benefit recipients.

The Department of Administration is responsible for most administrative and support functions, including information technology supports, communications, facilities, and human resources.

The System's primary responsibility is the administration of defined benefit and defined contribution retirement plans. Retirement and related benefits provided by MainePERS include:

- service retirement benefits, that provide retirement income to qualified members;
- disability retirement benefits, that provide income to a member who becomes disabled under Maine law while the member is in service and before the member retires; and
- death benefits that are paid to a member's designated beneficiaries.

Administration of these programs includes financial administration, investments, recordkeeping of members' work and compensation data, and provision of retirement-related services to members, employers, and retirees.

The System also administers the MaineSTART defined contribution retirement plans that are established under sections 401(a), 403(b), and 457(b) of the Internal Revenue Code. These plans are presently available to employees of those employers in the PLD Consolidated Plan that have adopted one or more of the plans.

The System itself and all of its programs are established by and operate within the scope of Maine statutes. The operation of the System's defined benefit retirement plans is also governed by provisions of the Maine Constitution, not all of which apply to all of the plans.

Membership and Contributions

State employees and teachers are covered under the Maine Public Employees Retirement System's State Employee and Teacher Retirement Program. State employees are required by law to become members of MainePERS when hired. There is an exception to this rule for elected and appointed officials, for whom membership is optional. Public school teachers, other than substitute teachers, for whom membership is also optional, must also become members of MainePERS when hired. PLD employees become members of MainePERS when they are hired if their employer participates as a PLD in MainePERS at that time and if they meet the membership eligibility requirements in effect when they are hired. For some PLD employees, membership is optional. These employees include those employed by their PLD before the PLD joined MainePERS, those whose employers provide Social Security or a qualified replacement plan under federal law, elected and appointed officials, and chief administrative officers.

The Legislative Retirement Program, also administered by MainePERS, was established to provide a retirement program for those serving in the Maine Legislature. Except as provided otherwise by statute, membership in the Maine Legislative Retirement Program is mandatory for legislators entering service on or after December 3, 1986.

The Judicial Retirement Program was established to provide a retirement program for Maine's judges. Membership in the Judicial Retirement Program is a condition of employment for all judges serving on or after December 1, 1984.

All members of the System contribute a percentage of their compensation to the System; employers may opt to contribute all or a portion of that percentage on behalf of their employees. Each employer also contributes to the System an amount for the normal costs of the programs that is a percentage of total wages paid to members who are employees of that employer.

Appendix A to Letter of Transmittal

Prior to July 1, 2013 the State paid the employer normal cost contributions and unfunded actuarial liability contributions on behalf of all State employee and teacher members. As of July 1, 2013, teacher employers began paying the employer normal cost contributions on behalf of those teacher members they employed while the state continued to pay toward the unfunded actuarial liability associated with teacher members. The employer contribution percentages are actuarially determined by plan and vary from year to year.

Employer normal cost contributions, along with current member contributions, support benefits currently being earned by active members. The State's unfunded actuarial accrued liability (UAAL) contribution is a payment on the amortized debt that represents the liability for benefits in excess of the amount supported by assets of the System. The Maine Constitution requires that the UAAL established as of June 30, 1996 be fully funded in not more than 31 years from July 1, 1997. The amortization period at the end of FY 2020 is 8 years, requiring full payment of the UAAL by the end of FY 2028.

The System also administers pay-as-you-go retirement programs for former judges who retired prior to the establishment of the Judicial Retirement Program in 1984 and their surviving spouses and former governors and their surviving spouses. The programs are funded each biennium by a direct appropriation from the Legislature and, in the case of the active governor, by employee contributions required by statute.

The Group Life Insurance Program is provided or made available to all eligible State employees, public school teachers, and employees of those PLDs who elect to offer this coverage to their employees, as well as to members of the Legislative and Judicial Retirement Programs. Basic coverage for the employee is equal to the employee's annual base compensation rounded up to the next \$1,000; supplemental coverage for the employee and coverage for dependents are also available.

Further details regarding program and plan provisions can be found elsewhere in this report and in the actuarial valuation for each program.

Financial Reporting

Total operating expenses for staff and all other costs of operations are allocated among each of the Programs administered by the System. The System's administrative budget is approved annually by the Board of Trustees, and is reported to the Legislature.

The System's financial statements have been prepared in accordance with generally accepted accounting principles applied on a consistent basis, in accordance with the standards and requirements of the Governmental Accounting Standards Board (GASB). The financial statements are presented in accordance with GASB Statement No. 34, Basic Financial Statements - Management's Discussion and Analysis for State and Local Governments, GASB Statement No. 67, Financial Reporting for Pension Plans, and, with respect to the Group Life Insurance Program, GASB Statement No. 74, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans. Financial information presented throughout this Report is consistent with the financial statements. The financial statements are prepared on the accrual basis of accounting.

The System has an Internal Audit program, staffed by one internal auditor and two payroll compliance auditors. This program focuses on a plan of internal controls and efficiencies in all of the departments at the System as well as payroll reporting accuracy of the employers who participate in one or more plans administered by the System. The internal auditor presents audit reports to both management and the Finance and Audit Committee of the Board of Trustees.

The independent auditor, BerryDunn, has conducted an audit of the financial statements in accordance with, as stated in its audit report, generally accepted auditing standards and including those tests and procedures BerryDunn deemed necessary to express its opinion in its audit report.

The auditors have unrestricted access to the Board and the Board's Finance and Audit Committee to discuss the audit and their findings with respect to the integrity of the System's financial reporting and adequacy of the System's internal controls.

The System reports five defined benefit pension plans including two multiple-employer cost sharing plans (the State Employee and Teacher Plan and the PLD Consolidated Plan), two single employer plans (the Judicial and Legislative

Appendix A to Letter of Transmittal

Plans) and an agent multiple employer plan which is an aggregation of single employer plans of those PLDs that elected not to join the consolidated cost sharing plan. Separate actuarial valuations are performed for each of the retirement programs that the System administers; contributions, inflows, and benefits payments are separately tracked and recorded, and separate trust fund balances are attributed to each such program. The System also reports the Group Life Insurance Program for active employees and two multiple-employer cost sharing Other Post-Employment Benefit (OPEB) plans providing life insurance coverage in retirement for state employees and teachers as well as for employees of those PLDs that participate in the life insurance program. In addition, the System reports the MaineSTART Defined Contribution plans as well as the Retiree Health Insurance Trust Fund. The System's financial statements, notes thereto and required supplementary information are prepared accordingly.

Board of Trustees, Management Staff, and Principal Professional Consultants June 30, 2020

Board of Trustees

Brian H. Noyes, <i>Chair</i>	Appointed by the Governor
Richard Metivier, <i>Vice Chair</i>	Appointed by the Maine Municipal Association
Henry Beck, State Treasurer	<i>Ex-Officio</i> Member
John S. Beliveau	Appointed by the Governor
Shirrin L. Blaisdell	Appointed by the Governor from a List of Retired State and PLD Employees Nominated by Retirees
Philip A. Brookhouse	Appointed by the Governor from a List of Nominees Submitted by the Maine Education Association – Retired
Mark A. Brunton	Elected by the Maine State Employees Association
Kenneth L. Williams	Elected by the Maine Education Association

Senior Administrative Staff

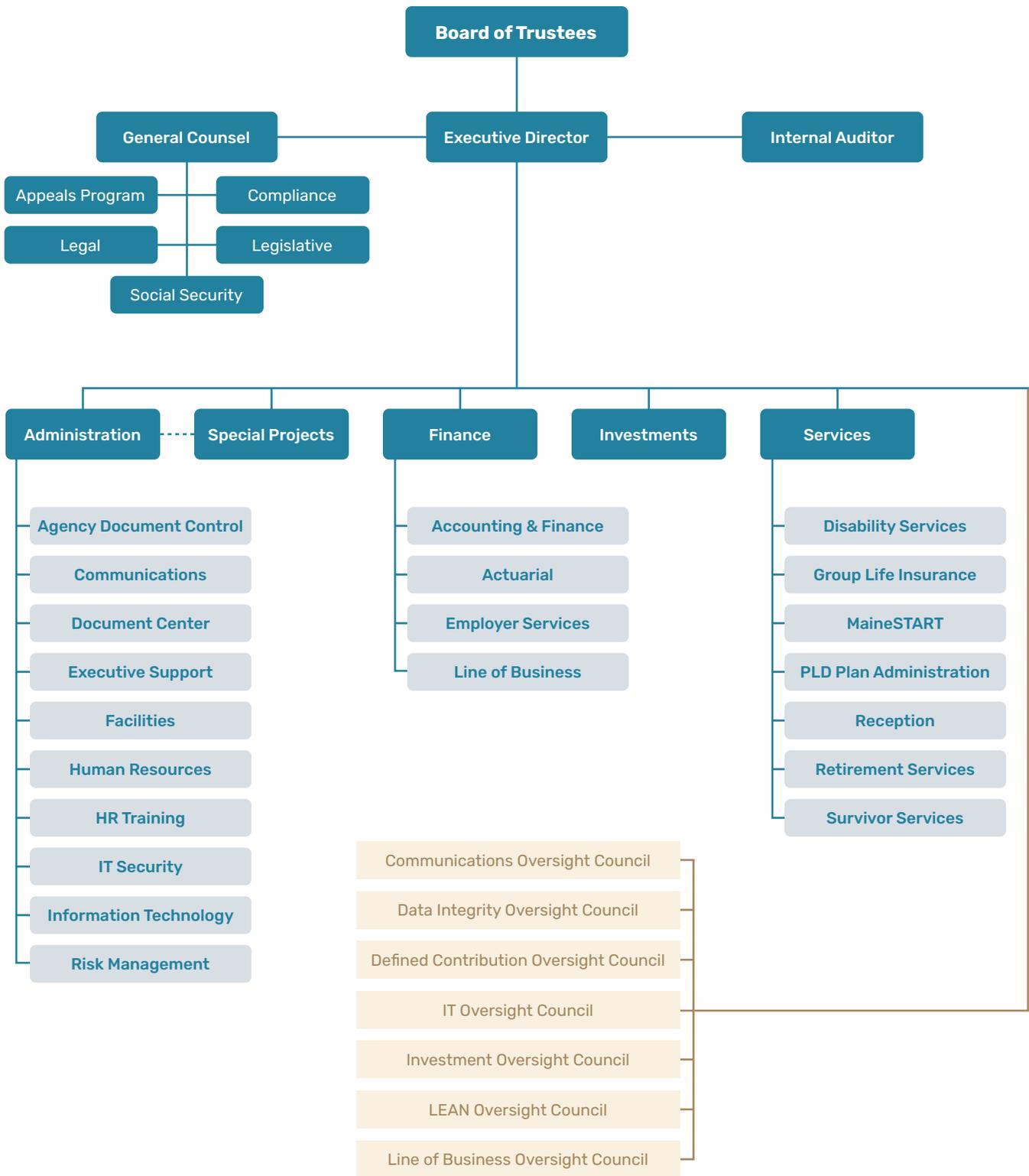
Sandra J. Matheson	Executive Director
Michael J. Colleran	General Counsel
James A. Bennett Ph.D., CFA, CAIA	Chief Investment Officer
Rebecca A. Grant	Deputy Executive Director
James Dusch	Deputy Executive Director
Sherry Tripp Vandrell, CMA, CGFM	Director of Finance
Valerie E. Scott	Associate Deputy Director

Principal Professional Consultants

Actuary:	Cheiron, Inc.
Investment Consultant:	Cambridge Associates
Auditors:	BerryDunn
Internal Auditor:	Randal L. Lloyd

See page 95 for a list of professional investment management firms. Information regarding commissions paid can be found on page 103.

Organizational Chart by Function



2020 Legislative Update
Legislation Enacted During the 129th Second Regular Session

**An Act to Provide the Same Retirement Benefits
for State Employees Working as Emergency Communications Specialists
as Are Provided to Law Enforcement Officers**

PL 2019, c. 537 [L.D. 833]
Effective Date: June 16, 2020

This law expands the 1998 Special Plan to include emergency communications specialists effective July 1, 2020, on a prospective basis. Specialists employed on and before that date must elect whether to participate in the special plan or to remain in the regular plan.

**An Act to Clarify the State's Commitments
Concerning Certain Public Service Retirement Benefits**

PL 2019, c. 540 [L.D. 1104]
Effective Date: June 16, 2020

This bill enlarges the contractual commitment to maintain state-protected benefits to encompass cost-of-living adjustments for retired state employees and teachers.

**An Act to Expand the 1998 Special Retirement Plan
to Include Detectives in the Office of Investigations within the Department
of the Secretary of State, Bureau of Motor Vehicles**

PL 2019, c. 541 [L.D. 1207]
Effective Date: June 16, 2020

This law expands the 1998 Special Plan to include motor vehicle detectives effective July 1, 2020, on a prospective basis. Detectives employed on and before that date must elect whether to participate in the special plan or to remain in the regular plan.

**An Act to Expand the 1998 Special Retirement Plan
to Include Detectives in the Office of the Attorney General**

PL 2019, c. 542 [L.D. 1208]
Effective Date: June 16, 2020

This law expands the 1998 Special Plan to include detectives in the employment of the Office of the Attorney General effective July 1, 2020, on a prospective basis. Detectives employed on and before that date must elect whether to participate in the special plan or to remain in the regular plan.

**An Act To Implement Provisions Necessary
to the Health, Welfare and Safety of the Citizens of Maine
in Response to the COVID-19 Public Health Emergency**

PL 2019, c. 617 [L.D. 2167]
Effective Date: March 18, 2020

This law, among other provisions related to the pandemic, temporarily permits remote meetings of bodies like the Board of Trustees and the PLD Advisory Committee if certain requirements are met.

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Financial Section



Squirrel Point Light, Arrowsic



Independent Auditor's Report

Board of Trustees of Maine Public Employees Retirement System

Report on the Financial Statements

We have audited the accompanying statement of fiduciary net position of Maine Public Employees Retirement System (the System), a component unit of the State of Maine, as of June 30, 2020 and the related statement of changes in fiduciary net position for the year then ended, and the related notes to the financial statements, which collectively comprise the System's basic financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with U.S. generally accepted accounting principles; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with U.S. generally accepted auditing standards and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of the System as of June 30, 2020, and the changes in its fiduciary net position for the year then ended, in accordance with U.S. generally accepted accounting principles.

Other Matters

Required Supplementary Information

U.S. generally accepted accounting principles require that Management's Discussion and Analysis and the required supplementary information as listed in the table of contents be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with U.S. generally accepted auditing, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Additional Supplementary Information

Our audits were conducted for the purpose of forming an opinion on the financial statements. The accompanying additional supplementary information as listed in the table of contents is presented for the purpose of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with U.S. generally accepted auditing standards. In our opinion, the additional supplementary information is fairly stated in all material respects in relation to the basic financial statements as a whole.

The information in the introductory, investment, actuarial and statistical sections as listed in the table of contents has not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on that information.

Report on Summarized Comparative Information

We have previously audited the System's June 30, 2019 basic financial statements and we expressed an unmodified opinion on those statements in our report dated October 15, 2019. In our opinion, the summarized comparative information presented herein as of and for the year ended June 30, 2019 is consistent, in all material respects, with the audited financial statements from which it has been derived.

Other Reporting Required by Government Auditing Standards

In accordance with Government Auditing Standards, we have also issued our report dated October 15, 2020 on our consideration of the System's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the System's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards in considering the System's internal control over financial reporting and compliance.

Berry Dunn McNeil & Parker, LLC

Manchester, New Hampshire
October 15, 2020

Management's Discussion and Analysis (Unaudited) June 30, 2020

Introduction

This Management's Discussion and Analysis (MD&A) is prepared by the management staff of the Maine Public Employees Retirement System (MainePERS or the System) for the purpose of providing an overview of the System's financial statements.

Financial Reporting Structure

The System's financial statements are prepared on an accrual basis of accounting in accordance with Governmental Accounting Standards Board (GASB) pronouncements. The accrual basis of accounting requires the recognition and recording of financial transactions and other related events when they occur and not just in conjunction with the inflows and outflows of cash and other resources.

The funds managed by the System are held in trust and consistent with state and federal law can only be used for the payment of pension and related benefits to its members or, in the case of the Retiree Health Insurance Trust Fund, for the payment of retiree health insurance premiums for eligible retirees of the State of Maine. The System's Board of Trustees (the Board), as fiduciary, establishes the System's investment policies and oversees their overall implementation.

The System reports five defined benefit retirement plans consisting of the State Employee and Teacher Plan, a multiple-employer cost sharing plan with a special funding situation; the Judicial Plan, a single employer plan; the Legislative Plan, a single employer plan; the PLD Consolidated Plan, a multiple-employer cost sharing plan; and the PLD Agent Plan, an agent multiple-employer plan. The System also reports a Group Life Insurance Plan covering active state employees (including judges and legislators), teachers, and participating employees of the PLD Plan as well as two multiple-employer cost sharing other post-employment benefit (OPEB) plans providing life insurance coverage in retirement for retired state employees and teachers and eligible retirees of the PLD Plans. In addition, the System reports certain defined contribution plans, the MainePERS OPEB Trust, and the Retiree Health Insurance Trust Fund.

Basic Financial Statements

The Statement of Fiduciary Net Position reports the balance of Fiduciary Net Position restricted for future benefits as of the fiscal year end, with summarized values reported as of the previous fiscal year end. The Statement of Changes in Fiduciary Net Position reports the net change in Fiduciary Net Position for the fiscal year, with summarized values reported for the previous fiscal year. The System reports each as separate funds and in separate columns in the financial statements. Condensed versions of both statements are included in the following section.

The Schedules of Changes in the Plan's Net Pension Liability and Related Ratios (Required Supplementary Information) present the total pension liability and information indicating the source of changes in the liability for each defined benefit retirement plan administered by the System. In addition, they show summary information regarding each Plan's net position for the years presented. They also present each Plan's net pension liability as a percentage of the covered payroll.

The Schedules of Employer Contributions (Required Supplementary Information) present the actuarially determined contributions for each defined benefit plan and compare them to actual employer contributions for the period presented. They also provide the actual contributions as a percentage of covered payroll for each year.

The Schedule of Investment Returns (Required Supplementary Information) presents the annual money-weighted rate of return, net of investment expenses, for all of the defined benefit plans for each year presented.

The Schedules of Changes in the Plan's Net OPEB Liability and Related Ratios for the Group Life Insurance Plans (Required Supplementary Information) present the total OPEB liability and information indicating the source of changes in the liability for each OPEB plan administered by the System. In addition, they show summary information regarding each Plan's net position for the years presented. They also present each Plan's net OPEB liability as a percentage of the covered payroll.

Management's Discussion and Analysis (Unaudited)

June 30, 2020

The Schedules of Employer Contributions for the Group Life Insurance Plans (Required Supplementary Information) present the actuarially determined contributions for each OPEB plan and compare them to actual employer contributions for the periods presented. They also provide the actual contributions as a percentage of covered payroll for each year.

The Schedule of Investment Returns (Required Supplementary Information) presents the annual money-weighted rate of return, net of investment expenses, for all of the OPEB plans for each year presented.

Financial Highlights and Analysis

The following are the Condensed Comparative Statements of Fiduciary Net Position and Condensed Comparative Statements of Changes in Fiduciary Net Position for the System for the fiscal years ended June 30, 2020, 2019, and 2018:

Condensed Comparative Statements of Fiduciary Net Position

(Dollar Values Expressed in Millions)

	June 30, 2020	June 30, 2019	June 30, 2018
Cash and Receivables	\$ 71.5	\$ 106.9	\$ 68.8
Investments at Fair Value	15,593.5	15,526.9	14,952.4
Collateral on Loaned Securities	206.3	200.0	208.0
Other Assets	17.5	19.3	6.0
Total Assets	\$ 15,888.8	\$ 15,853.1	\$ 15,235.2
Investment Management Fees Payable	\$ 19.2	\$ 19.9	\$16.3
Obligations Under Securities Lending Activities	206.3	200.0	208.0
Other Liabilities	22.8	57.5	14.1
Total Liabilities	\$ 248.3	\$ 277.4	\$ 238.4
Fiduciary Net Position – Restricted for Benefits	\$ 15,640.5	\$ 15,575.7	\$ 14,996.8

Condensed Comparative Statements of Changes in Fiduciary Net Position

(Dollar Values Expressed in Millions)

	June 30, 2020	June 30, 2019	June 30, 2018
Additions:			
Member Contributions	\$ 214.6	\$ 209.8	\$ 196.8
Employer Contributions	301.5	291.1	278.0
Non-Employer Contributing Entities Contributions	179.0	136.5	132.9
Total Investment Income	468.5	996.1	1,383.8
Transfers from Other Plans	29.2	0.5	0.4
Total Additions	\$ 1,192.8	\$ 1,634.0	\$ 1,991.9
Deductions:			
Benefits Paid	\$ 1,052.9	\$ 1,009.4	\$ 959.3
Other	75.1	45.7	40.7
Total Deductions	\$ 1,128.0	\$ 1,055.1	\$ 1,000.0
Net Increase	\$ 64.8	\$ 578.9	\$ 991.9
Fiduciary Net Position – Restricted for Benefits, Beginning of Year	\$ 15,575.7	\$ 14,996.8	\$ 14,004.9
Fiduciary Net Position – Restricted for Benefits, End of Year	\$ 15,640.5	\$ 15,575.7	\$ 14,996.8

Management's Discussion and Analysis (Unaudited)

June 30, 2020

Fiduciary Net Position

The Fiduciary Net Position of the System increased in fiscal year 2020 by \$64.8 million (.4%) from the prior year Fiduciary Net Position. While lower than in 2019, investment returns were positive and contributed to the increase. Investment income was \$468.5 million in fiscal year 2020 compared to \$996.1 million in fiscal year 2019.

Comparatively, the Fiduciary Net Position of the System increased in fiscal year 2019 by \$578.9 million (3.9%) from the prior year Fiduciary Net Position. While lower than in 2018, investment returns were strong and contributed to the increase. Investment income was \$996.1 million in fiscal year 2019 compared to \$1,383.8 million in fiscal year 2018.

Assets

Investments at Fair Value increased by \$66.6 million (.4%) in fiscal year 2020. This increase in Investments at Fair Value combined with a decrease in cash and receivables of \$35.4 million and an increase in collateral on loaned securities of \$6.3 million contributed to an increase in total assets of \$35.7 million during the fiscal year. The System records the collateral on loaned securities due to its securities lending activity as an asset and corresponding liability. The increase of \$6.3 million in collateral on loaned securities arose due to changes in the amount and type of securities on loan. Non-cash collateral is not recorded in total assets on the System's financial statements.

Comparatively, Investments at Fair Value increased by \$574.5 million (3.8%) in fiscal year 2019. This increase in Investments at Fair Value combined with a decrease in collateral on loaned securities of \$8.0 million and an increase in cash and receivables of \$38.1 million contributed to an increase in total assets of \$617.9 million during the fiscal year. The decrease of \$8 million in collateral on loaned securities arose due to a more conservative approach to securities lending.

There were \$275.9 thousand in pending sales at June 30, 2020. There were \$32.1 million in pending sales at June 30, 2019 and there were \$2.5 million in pending sales at June 30, 2018.

Liabilities

On June 30, 2020, total loans outstanding in the securities lending program were \$206.3 million. On June 30, 2019 and 2018, the total loans outstanding in the securities lending program were \$200 million and \$208 million, respectively.

Additions to Fiduciary Net Position

Additions to Fiduciary Net Position during fiscal year 2020 totaled \$1,192.8 million compared to additions of \$1,634 million to Fiduciary Net Position in fiscal year 2019. While contributions from all sources increased by \$57.7 million, investment income, net of fees and other deductions, decreased by \$527.6 million. The decrease in investment income relative to fiscal year 2019 is due to generally lower returns across all asset classes.

Additions to Fiduciary Net Position during fiscal year 2019 totaled \$1,634 million compared to additions of \$1,991.9 million to Fiduciary Net Position in fiscal year 2018. While contributions from all sources increased by \$29.7 million, investment income, net of fees and other deductions, decreased by \$387.7 million. The decrease in investment income relative to fiscal year 2018 is due to lower interest rates.

The State's contributions on behalf of State employees totaled \$163.7 million, \$160.8 million, and \$156.5 million for fiscal years 2020, 2019, and 2018, respectively. The State's contributions on behalf of teachers totaled \$174.5 million, \$133 million, and \$129.4 million, for fiscal years 2020, 2019, and 2018, respectively. The State's contribution on behalf of judges totaled \$716 thousand, \$1.2 million, and \$1.2 million for fiscal years 2020, 2019, and 2018, respectively. Based on the funding methodology used and considering the funded status of the Legislative Plan, no employer contribution was required in fiscal years 2020, 2019 or 2018.

The balance of employer contributions reported is from local school district employers and Participating Local District (PLD) employers. Local school district employers pay the normal cost contribution on behalf of public school teachers. The normal cost rate as a percentage of earnable compensation for fiscal year 2020 was 4.16%. For fiscal years 2019

Management’s Discussion and Analysis (Unaudited) June 30, 2020

and 2018 the normal cost rate was 3.97%. The range of employer contributions in the PLD Consolidated Plan as a percent of earnable compensation in fiscal year 2020 was 4.5% to 16.2%; for fiscal year 2019 the range was 4.1% to 16.3%; and for fiscal year 2018 the range was 3.9% to 15.7%. Historically, the PLD Consolidated Plan’s funded status and established funding approach resulted in employers of the PLD Consolidated Plan paying less than what the true normal cost would otherwise require. The employer rates have been incrementally increased over the past several years to reach a contribution rate closer to true normal cost.

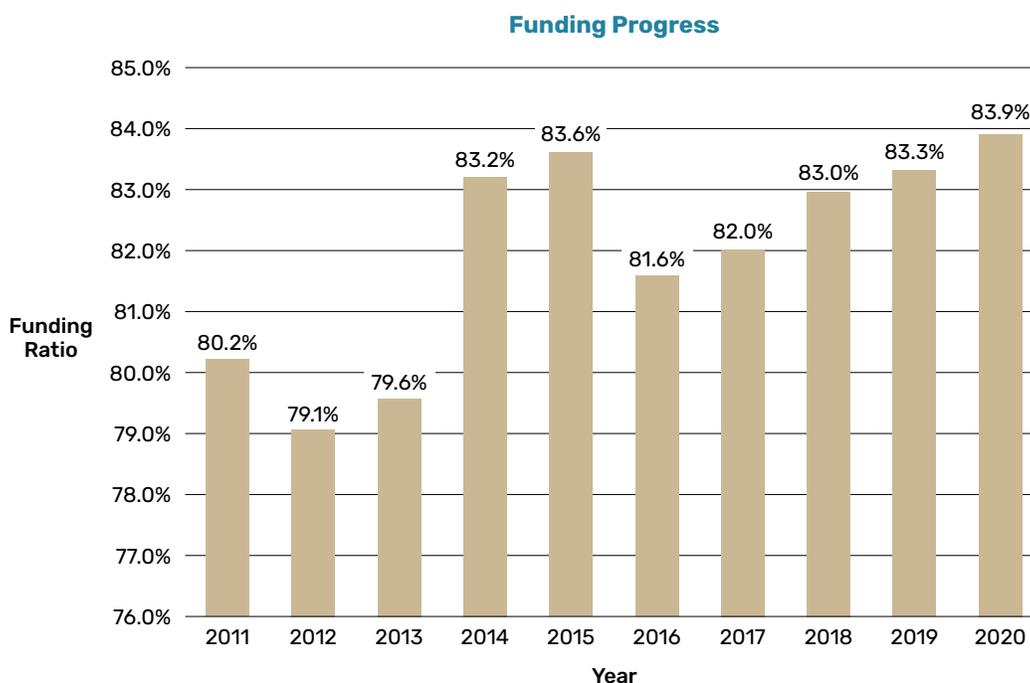
Member and employer data, contribution and benefit data for the 6 non-consolidated PLDs are specific to each PLD and are obtainable from the System.

Deductions from Fiduciary Net Position

Total deductions from Fiduciary Net Position restricted for benefits during fiscal year 2020 increased by \$72.9 million (6.9%). The fiscal year 2020 increase was due to an increase in the number of recipients receiving benefits, as well as the increased cost of benefits paid and refunds and withdrawals of contributions. Benefit payments in fiscal year 2020 exceeded contributions by \$357.8 million. Contributions totaled \$695.1 million, and benefit payments totaled \$1,052.9 million.

Comparatively, total deductions from Fiduciary Net Position restricted for benefits during fiscal year 2019 increased by \$55.1 million (5.5%). The fiscal year 2019 increase was due in part to an increase in the number of recipients receiving benefits, as well as the increased cost of benefits paid and refunds and withdrawals of contributions. Benefit payments in fiscal year 2019 exceeded contributions by \$372 million. Contributions totaled \$637.4 million, and benefit payments totaled \$1,009.4 million.

System Funding Status – Aggregate



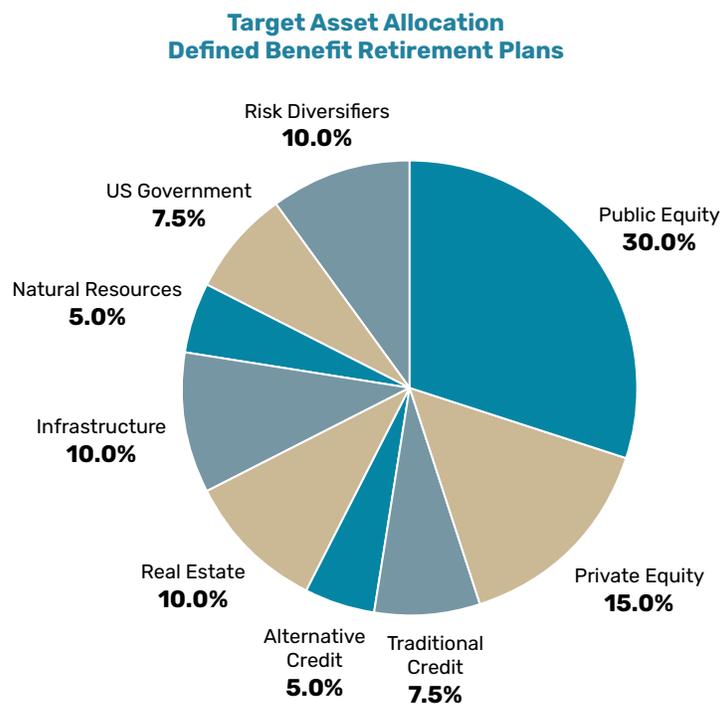
At June 30, 2020, the State Employee and Teacher, Judicial, Legislative and PLD defined benefit plans were actuarially funded at 83.9%, a slight increase from the actuarial funding level of 83.3% at June 30, 2019. As illustrated in the chart, the actuarial funded ratio of the System was 80.2% at June 30, 2011. This was followed by a slight decrease in 2012 to 79.1%. Significant improvement in investment returns in 2011, combined with a decrease in the overall unfunded liabilities of the plan resulting from changes in plan benefit structure and changes in assumptions

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adopted following the completion of an experience study in 2011, pushed the funding level up for this year. Modest investment returns, combined with increased deductions from the plan for benefits, contributed to the decrease in 2012. The increase in the funded ratio for 2013 and 2014 is attributable in part to strong investment returns during those years, in addition to changes in plan provisions and increased contribution rates. Lower investment returns combined with increased contribution rates in 2015 contributed to keeping the funding ratio level. The decrease in funding level in 2016 is attributable, in large part, to low investment returns due to the low return environment, combined with an increase in the overall liabilities of the plans resulting from changes in assumptions adopted following the completion of an experience study in 2016. The modest increases from 2017 through 2020 are attributable, in large part, to investment returns during those years.

Investments

The assets of all the defined benefit retirement plans that the System administers are commingled for investment purposes.



The System’s investment portfolio for the defined benefit retirement plans is invested across nine asset classes: public equity, private equity, traditional credit, alternative credit, real estate, infrastructure, natural resources, US Government, and risk diversifiers. Publicly traded derivative securities are used in some portfolios to obtain exposures to one or more of the asset classes in a cost effective manner. The investment policy established by the Board in 2012 and as amended in December 2017 assigned strategic target allocations for these asset classes, as shown in the above chart.

Investments of the Group Life Insurance Plans and the Retiree Health Insurance Trust are invested separately from the assets of the defined benefit retirement plans. The target allocations for these assets are public equity (70%), real estate (5%), traditional credit (15%), and US Government (10%).

All of the assets invested by the System are in portfolios managed by professional investment management firms. These managers act as fiduciaries and invest the assets assigned to them in accordance with the Board’s investment policy and their separate contractual arrangements. At June 30, 2020, total fair value of assets in these portfolios (together with the amounts otherwise managed) was \$15.6 billion. The total fair value of assets as of June 30, 2019 and June 30, 2018, respectively, was \$15.5 billion and \$15.0 billion. The investment return, net of all fees, for the

Management's Discussion and Analysis (Unaudited) June 30, 2020

year ended June 30, 2020 was 1.8%. The investment return for the years ended June 30, 2019 and June 30, 2018, respectively, was 7.1% and 10.3%. Investment returns in fiscal year 2020 were lower than in fiscal year 2019, due to generally lower returns across all asset classes. Over the five, ten and thirty year periods ended June 30, 2020, the average annual investment return for the total fund was 6.4%, 8.3%, and 7.8%, respectively.

System Membership – Aggregate

The following membership counts for all of the defined benefit plans are derived from actuarial valuation data:

	2020	2019	% Change
Current active participants:			
Vested and nonvested	52,471	51,859	1.2%
Terminated participants:			
Vested	10,679	10,680	0.0%
Inactives Due Refunds	46,515	47,029	-1.1%
Retirees and beneficiaries receiving benefits	47,350	46,448	1.9%
Total Membership	157,015	156,016	0.6%

The number of active State employees at June 30, 2020 in the State Employee and Teacher plan was 12,830, an increase of 395 from June 30, 2019. The number of active Teachers at June 30, 2020 was 27,565, an increase of 124 from June 30, 2019. Membership for judges was 58, a decrease of 3 from the previous year. Membership for Legislators was 179 at June 30, 2020 and June 30, 2019. Total active membership in the PLD Consolidated Plan and the 6 non-consolidated plans at June 30, 2019 was 11,839, an increase of 96 from June 30, 2019.

Group Life Insurance Plan

The Group Life Insurance Plans provide life insurance coverage for eligible members of the defined benefit plans administered by the System. Eligible members include State, teacher and those PLD employees whose employers have elected to participate in the program, and whose positions are eligible for coverage. Eligible employees who elect coverage receive life insurance coverage while actively employed and may carry coverage into retirement. The following summarized data, stated in millions, is derived from actuarial valuation data for the Group Life Insurance Plan with respect to benefits in retirement:

	2020	2019	% Change
Total OPEB Liability	\$ 242.9	\$ 242.1	0.3%
Plan Net Position	122.0	116.9	4.4%
Net OPEB Liability	\$ 120.9	\$ 125.2	-3.4%

Defined Contribution Plans

The Section 401(a), Section 457 and Section 403(b) Plans administered by the Board are defined contribution plans. These plans are provided as supplemental plans to the basic retirement benefits of employees of PLDs that elect to participate in the Defined Contribution Plans. Contributions may be made to the Plans subject to plan and Internal Revenue Code limitations. Investments in the Defined Contribution Plans are individually directed and controlled by plan participants.

Retiree Health Insurance Trust Fund

The Maine State Legislature established the Retiree Health Insurance Post Employment Investment Trust (the Fund) as an irrevocable trust for the sole purpose of holding and investing funds appropriated or otherwise provided to the Fund for the purpose of accumulating assets to provide funding to the State's unfunded liability obligations for retiree health benefits. The Trustees of the System were named Trustees of the Investment Trust Fund. At June 30, 2020, the Fiduciary Net Position Held in Trust for the Fund was \$291,558,702.

Management's Discussion and Analysis (Unaudited)
June 30, 2020

Currently Known Facts, Decisions, or Conditions

In response to the global pandemic, coronavirus disease (COVID-19), management began taking a series of steps designed to protect staff and the public from exposure to the disease. This included re-assignment of roughly seventy-five percent of staff to remote work in March. The transition to remote work required that some operations be slowed for a period of time while the necessary infrastructure could be put in place. That transition was complete in May and operations continue with limited onsite staff.

Due to the uncertainty surrounding the duration of the pandemic, potential economic ramifications, and the impact of further government mitigating actions, management is alert to potential impacts on the System's financial position and operations. Management is unable to reasonably estimate any potential impact at this time.

Requests for Information

Questions concerning this Management's Discussion and Analysis, other parts of the System's financial statements or the System's financial activities should be directed to Maine Public Employees Retirement System, Sherry Tripp Vandrell, Director of Finance, at PO Box 349, Augusta, Maine 04332 or at (207) 512-3100 or toll-free at (800) 451-9800.

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Statement of Fiduciary Net Position
June 30, 2020
With Summarized Information as of June 30, 2019

	State Employee and Teacher Plan	Judicial Plan	Legislative Plan	PLD Consolidated Plan	PLD Agent Plan
Assets:					
Cash and cash equivalents (note 3)	\$ 32,420,161	\$ 318,678	\$ 58,327	\$ 2,913,570	\$ 35,877
Investments at fair value (note 3):					
Common equity	2,033,257,096	12,409,747	2,270,460	508,516,614	1,407,770
Common/collective trusts	4,297,437,297	26,228,907	4,798,784	1,074,786,984	2,975,425
Partnerships	<u>5,674,901,172</u>	<u>34,636,097</u>	<u>6,336,945</u>	<u>1,419,290,031</u>	<u>3,929,143</u>
Total investments	12,005,595,565	73,274,751	13,406,189	3,002,593,629	8,312,338
Receivables:					
Contributions and premiums (notes 6 and 7)	19,808,950	61	-	10,148,970	222
Accrued interest and dividends	3,155,603	19,260	3,524	789,215	2,185
Due from brokers for securities sold	<u>219,299</u>	<u>1,338</u>	<u>245</u>	<u>54,846</u>	<u>152</u>
Total receivables	23,183,852	20,659	3,769	10,993,031	2,559
Collateral on loaned securities (note 5)	163,961,000	1,000,717	183,089	41,006,566	113,522
Capital assets, net of accumulated depreciation	<u>13,905,046</u>	<u>84,868</u>	<u>15,527</u>	<u>3,477,645</u>	<u>9,627</u>
Total assets	12,239,065,624	74,699,673	13,666,901	3,060,984,441	8,473,923
Liabilities:					
Accounts payable	2,815,231	17,182	3,144	704,088	1,949
Due to brokers for securities purchased	-	-	-	-	-
Other liabilities	12,122,460	73,988	13,537	3,031,822	8,393
Accrued investment management fees	15,248,321	93,066	17,027	3,813,598	10,558
Obligations under securities lending activities (note 5)	<u>163,961,000</u>	<u>1,000,717</u>	<u>183,089</u>	<u>41,006,566</u>	<u>113,522</u>
Total liabilities	194,147,012	1,184,953	216,797	48,556,074	134,422
Fiduciary net position – restricted for benefits	<u>\$ 12,044,918,612</u>	<u>\$ 73,514,720</u>	<u>\$ 13,450,104</u>	<u>\$ 3,012,428,367</u>	<u>\$ 8,339,501</u>

The accompanying notes are an integral part of these financial statements.

Statement of Fiduciary Net Position
June 30, 2020
With Summarized Information as of June 30, 2019

Group Life Insurance Plan Active	Group Life Insurance Plan Retired SET	Group Life Insurance Plan Retired PLD	Defined Contribution Plans	MainePERS OPEB Trust	Retiree Health Insurance Trust Fund	2020 Total	2019 Summarized
\$ 452,257	\$ 631,623	\$ 73,600	\$ 37,136	\$ -	\$ -	\$ 36,941,229	\$ 38,577,286
-	-	-	-	-	-	2,557,861,687	2,299,562,007
15,157,749	106,919,027	16,586,645	45,629,459	14,406,261	291,583,042	5,896,509,580	6,450,026,494
-	-	-	-	-	-	7,139,093,388	6,777,266,879
15,157,749	106,919,027	16,586,645	45,629,459	14,406,261	291,583,042	15,593,464,655	15,526,855,380
388,405	-	73,285	882	-	-	30,420,775	33,899,217
-	-	-	-	-	-	3,969,787	2,387,427
-	-	-	-	-	-	275,880	32,050,628
388,405	-	73,285	882	-	-	34,666,442	68,337,272
-	-	-	-	-	-	206,264,894	199,994,962
-	-	-	-	-	-	17,492,713	19,342,711
15,998,411	107,550,650	16,733,530	45,667,477	14,406,261	291,583,042	15,888,829,933	15,853,107,611
805	5,676	881	-	-	-	3,548,956	6,441,319
-	-	-	-	-	-	-	32,642,711
1,023,405	1,920,657	346,856	13,800	697,575	3,000	19,255,493	18,491,318
1,110	7,828	1,214	-	1,041	21,340	19,215,103	19,855,264
-	-	-	-	-	-	206,264,894	199,994,962
1,025,320	1,934,161	348,951	13,800	698,616	24,340	248,284,446	277,425,574
<u>\$ 14,973,091</u>	<u>\$ 105,616,489</u>	<u>\$ 16,384,579</u>	<u>\$ 45,653,677</u>	<u>\$ 13,707,645</u>	<u>\$ 291,558,702</u>	<u>\$ 15,640,545,487</u>	<u>\$ 15,575,682,037</u>

Statement of Changes in Fiduciary Net Position
Year Ended June 30, 2020
With Summarized Information for the Year Ended June 30, 2019

	State Employee and Teacher Plan	Judicial Plan	Legislative Plan	PLD Consolidated Plan	PLD Agent Plan
Additions:					
Investment income:					
From investing activities:					
Net appreciation in the fair value of plan investments	\$ 355,317,039	\$ 2,173,615	\$ 390,297	\$ 88,314,558	\$ 581,208
Interest	1,749,930	10,711	1,943	434,681	2,935
Dividends	98,329,166	600,141	109,800	24,592,077	68,080
Less: investment expenses	(103,290,753)	(633,412)	(114,296)	(25,552,439)	(232,397)
Net income from investing activities	352,105,382	2,151,055	387,744	87,788,877	419,826
From securities lending activities:					
Securities lending income	779,364	4,757	870	194,919	540
Borrower rebates refunded	1,504,812	9,184	1,680	376,353	1,042
Management fees	(116,834)	(713)	(130)	(29,220)	(81)
Net income from securities lending activities	2,167,342	13,228	2,420	542,052	1,501
Total investment income	354,272,724	2,164,283	390,164	88,330,929	421,327
Contributions and premiums (notes 6 and 7):					
Members	151,438,850	616,095	156,306	54,090,044	28,694
Employers	225,468,763	715,963	-	66,717,733	345,323
Non-employer contributing entities	174,530,364	-	-	-	-
Transfers from other plans	-	764,902	365,766	27,886,461	-
Total contributions and premiums	551,437,977	2,096,960	522,072	148,694,238	374,017
Total additions	905,710,701	4,261,243	912,236	237,025,167	795,344
Deductions:					
Benefits paid	863,977,621	4,313,483	520,364	167,897,392	1,759,029
Refunds and withdrawals	18,841,863	1,075	177,332	6,854,776	913,894
Transfers to other plans	2,193,752	-	-	203,000	26,823,377
Claims processing expenses (note 7)	-	-	-	-	-
Administrative expenses	11,343,928	69,406	12,458	2,797,728	20,772
Total deductions	896,357,164	4,383,964	710,154	177,752,896	29,517,072
Net increase/(decrease) in fiduciary net position	9,353,537	(122,721)	202,082	59,272,271	(28,721,728)
Fiduciary net position – restricted for benefits, beginning of year	12,035,565,075	73,637,441	13,248,022	2,953,156,096	37,061,229
Fiduciary net position – restricted for benefits, end of year	<u>\$12,044,918,612</u>	<u>\$ 73,514,720</u>	<u>\$ 13,450,104</u>	<u>\$3,012,428,367</u>	<u>\$ 8,339,501</u>

The accompanying notes are an integral part of these financial statements.

Statement of Changes in Fiduciary Net Position
Year Ended June 30, 2020
With Summarized Information for the Year Ended June 30, 2019

Group Life Insurance Plan Active	Group Life Insurance Plan Retired SET	Group Life Insurance Plan Retired PLD	Defined Contribution Plans	MainePERS OPEB Trust	Retiree Health Insurance Trust Fund	2020 Total	2019 Summarized
\$ 707,545	\$ 4,946,571	\$ 762,154	\$ 2,095,840	\$ 678,343	\$ 13,946,835	\$ 469,914,005	\$ 1,012,441,163
1,058	7,760	1,233	-	-	-	2,210,251	3,477,737
-	-	-	-	-	-	123,699,264	95,478,839
(9,491)	(68,787)	(10,870)	(52,496)	(9,135)	(88,274)	(130,062,350)	(117,241,987)
699,112	4,885,544	752,517	2,043,344	669,208	13,858,561	465,761,170	994,155,752
-	-	-	-	-	-	980,450	1,140,528
-	-	-	-	-	-	1,893,071	969,510
-	-	-	-	-	-	(146,978)	(171,019)
-	-	-	-	-	-	2,726,543	1,939,019
699,112	4,885,544	752,517	2,043,344	669,208	13,858,561	468,487,713	996,094,771
4,424,088	-	-	3,880,598	-	-	214,634,675	209,813,498
1,499,430	4,832,759	1,127,014	735,443	7,748	-	301,450,176	291,052,028
-	4,478,090	-	-	-	-	179,008,454	136,527,810
-	-	-	203,000	-	-	29,220,129	533,837
5,923,518	9,310,849	1,127,014	4,819,041	7,748	-	724,313,434	637,927,173
6,622,630	14,196,393	1,879,531	6,862,385	676,956	13,858,561	1,192,801,147	1,634,021,944
5,056,866	7,539,793	1,486,811	-	346,862	-	1,052,898,221	1,009,360,199
-	-	-	2,342,932	-	-	29,131,872	29,111,521
-	-	-	-	-	-	29,220,129	533,837
87,464	637,961	102,649	87,464	-	-	915,538	980,288
138,059	1,018,932	164,654	203,000	-	3,000	15,771,937	15,146,513
5,282,389	9,196,686	1,754,114	2,633,396	346,862	3,000	1,127,937,697	1,055,132,358
1,340,241	4,999,707	125,417	4,228,989	330,094	13,855,561	64,863,450	578,889,586
13,632,850	100,616,782	16,259,162	41,424,688	13,377,551	277,703,141	15,575,682,037	14,996,792,451
\$ 14,973,091	\$ 105,616,489	\$ 16,384,579	\$ 45,653,677	\$ 13,707,645	\$ 291,558,702	\$ 15,640,545,487	\$ 15,575,682,037

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June 30, 2020
With Summarized Information for June 30, 2019

1. Overview of the Maine Public Employees Retirement System Benefit Plans

Background

The Maine Public Employees Retirement System (the System or MainePERS), which is a component unit of the State of Maine, is the administrator of a public employee retirement system established and administered under the Laws of the State of Maine. The System was formerly named the Maine State Retirement System. The System provides pension, disability, and death benefits to its members, which include employees of the State, public school teachers (as defined by Maine law) and employees of 307 local municipalities and other public entities (participating local districts, or PLDs) in Maine, each of which contracts for participation in the System under provisions of the relevant statutes.

Individual PLDs are permitted by law to withdraw from participation in the System. Withdrawal precludes the PLD's nonmember employees, if any, and its employees hired subsequent to withdrawal from membership in the System. Depending on the circumstances and requirements of the PLD's participation under the System, a withdrawn PLD may have continuing funding obligations after withdrawal with respect to its employees who are active members at the time of withdrawal and who continue to be members thereafter, to its terminated vested employee members, and to its former employee members who are retired at the time of withdrawal.

Board of Trustees

The Board is comprised of eight members. State law specifies the composition of the Board, whose members are confirmed by the Legislature. Three trustees are System members, one of whom is proposed and elected by the Maine Education Association, one of whom is proposed and elected by the Maine State Employees Association, and one of whom is an active or retired PLD member appointed by the governing body of the Maine Municipal Association. Four other trustees are appointed by the Governor. Of these, one must be selected by the Governor from a list of nominees submitted by the Maine Retired Teachers Association and one must be a MainePERS retiree selected from a list of nominees submitted by State and/or PLD retirees. The remaining two appointees are direct gubernatorial appointments, both of whom must be qualified through training or experience in investments, accounting, banking or insurance or as actuaries. All appointed trustees are required to have "a working knowledge of retirement policy and legal issues and a general knowledge and understanding of banking, finance, and investment practices." The eighth trustee is the State Treasurer, who serves ex-officio. All trustee terms are three years, except for the two-year term of the State Treasurer. The Board annually elects its chair and vice chair from among its members.

Defined Benefit Plans

Pension funds managed by the System are constitutionally restricted and held in trust for the payment of pension and related benefits. The Board, in its fiduciary capacity, establishes the System's investment policies and oversees their overall implementation. The System administers five defined benefit pension plans consisting of the State Employee and Teacher Plan which includes the Governors' Plan, the Judicial Plan, the Legislative Plan, the PLD Consolidated Plan, and the PLD Agent Plan. The System maintains separate reserves and accounts and performs separate annual actuarial valuations for each pension plan. Additional information regarding each plan can be found in Note 6 of this report.

Group Life Insurance Plans

The Group Life Insurance Plans (the Plans) were established by the State Legislature to provide group life insurance benefits, during active service as well as in retirement, to State employees, Teachers, members of the Judiciary and the Legislature, as well as Elected and Appointed Officers of the State, that are eligible for membership in the System. Group Life Insurance benefits are also provided to the employees of PLDs that elect to participate in the Plans. Generally, benefit plan provisions can only be amended through statutory change. Employees are eligible for coverage under the Plans, subject to their membership in one or more of the aforementioned eligible employment classes and any other conditions of eligibility that the Board may prescribe by rule or decision.

Group Life Insurance funds managed by the System are held in trust for the payment of benefits to participants and/or their beneficiaries. The Board, in its fiduciary capacity, establishes the System's investment policies and oversees

Notes to Financial Statements
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their overall implementation. The System maintains separate reserves and accounts for both active and retiree coverage and biennial actuarial valuations are performed for each plan within the program. In those years where a full actuarial valuation is not completed, a roll-forward of plan liabilities from the previous valuation to the current fiscal year end with expected benefit payments and accruals is conducted. The liabilities for fiscal year ended June 30, 2020 were calculated as part of a full actuarial valuation.

Defined Contribution Plans

The Section 401(a), Section 457 and Section 403(b) Plans (Defined Contribution Plans), administered by the System's Board of Trustees with funds held in trust, are defined contribution plans. These plans are available as supplemental plans to the basic retirement benefits of employees of PLDs that elect to participate in the Defined Contribution Plans. Contributions may be made to the Defined Contribution Plans by plan participants subject to plan and Internal Revenue Code limitations. At June 30, 2020, participation in the defined contribution plans was as follows:

	401(a) Plan	457 Plan	403(b) Plan
Employers	7	66	1
Participants	80	796	518

Investments in the Defined Contribution Plans are individually directed and controlled by plan participants. Benefits for deferred compensation, employer contributions, and earnings on the accounts are not recognized by Plan participants for income tax purposes until actually paid to the participant or beneficiary.

MainePERS OPEB Trust

The MainePERS Other Post-Employment Benefits (OPEB) Trust is an irrevocable trust established for the purpose of accumulating assets to provide funding for retiree health benefits and life insurance in retirement for qualified individuals who retire from MainePERS. The Trustees of the System were named Trustees of the MainePERS OPEB Trust. Contributions are made to the Trust on an annual basis in the amount equal to the actuarially determined contribution amount.

Retiree Health Insurance Trust Fund

The Maine State Legislature established the Retiree Health Insurance Post Employment Investment Trust (Investment Trust Fund) as an irrevocable trust formed solely to hold and invest funds appropriated or otherwise provided to the Investment Trust Fund for the purpose of accumulating assets to provide funding to the State's unfunded liability obligations for retiree health benefits. The Trustees of the System were named Trustees of the Investment Trust Fund.

2. Summary of Significant Accounting Policies

Basis of Accounting

The System's financial statements are prepared using the accrual basis of accounting.

Comparative Summarized Information

The financial statements include certain prior-year summarized comparative information in total but not by fund. Such information does not include sufficient detail to constitute a presentation in conformity with generally accepted accounting principles. Accordingly, such information should be read in conjunction with the System's financial statements for the year ended June 30, 2019, from which the summarized information was derived.

Use of Estimates

The preparation of financial statements in conformity with U.S. generally accepted accounting principles (US GAAP) requires management to make significant estimates and assumptions. These estimates affect the reported amounts of fiduciary net position at the date of the financial statements, the actuarial information included in the required

Notes to Financial Statements
June 30, 2020
With Summarized Information for June 30, 2019

supplementary information as of the actuarial information date, the changes in fiduciary net position during the reporting period and, when applicable, the disclosure of contingent assets and liabilities at the date of the financial statements, as reported in the notes to the financial statements. Actual results could differ from those estimates.

Revenue Recognition

Pension contributions and group life insurance premiums, as well as contributions to the Retiree Health Insurance Trust, are recognized as additions in the period when they become due pursuant to formal commitments or statutory or contractual requirements. Contributions to Defined Contribution Plans are recognized in the period they are contributed.

Investment income includes net appreciation or depreciation in the fair value of investments, interest and dividend income, foreign currency transaction gains and losses, and securities lending income, less investment expenses, which include investment management and custodial fees and all other significant investment related costs. Dividends include income returns from partnerships. Investment income is recognized when earned and investment expenses are recorded when incurred.

Benefits Paid and Refunds and Withdrawals

Pension and group life insurance benefits and contributions and premium refunds and withdrawals to the System's members and beneficiaries are recognized as deductions when due and payable in accordance with the terms of the statutes. In addition, an estimate is made for group life insurance death benefits incurred before year end but not reported to the System until after year end. These are reflected as other liabilities. Distributions from Defined Contribution Plans and the Retiree Health Insurance Trust are recognized in the period the disbursement is made.

Investments

Investments are reported at fair value. Debt and equity securities that are traded on recognized exchanges are valued at the last sales price and the current exchange rates on the reporting date. Other regularly traded securities, including derivatives, are valued by the System's custodians through a variety of external sources. Investments that do not have an established market are reported at estimated fair value. The fair value of shares in common/collective trusts is based on unit values reported by the funds. The fair value of other investments, including private market partnerships, is based on third-party appraisals and valuations provided by the sponsor of the partnerships. Management reviews and approves all such appraisals and valuations prepared by other parties. Investment purchases and sales are recorded as of their trade date. Proceeds related to securities sold not yet purchased are carried as a liability and are adjusted to the fair value of the securities.

Assets of the defined benefit pension plans are pooled for investment purposes and are allocated to each plan based on each plan's fiduciary net position, as are investment expenses and administrative expenses. Assets of the Group Life Insurance Plans are pooled for investment purposes and are allocated to each plan based on each plan's fiduciary net position, as are investment expenses and administrative expenses. Other assets managed by the System are invested separately from the assets of the defined benefit pension plans and the Group Life Insurance Plans.

Due to/from Brokers

Amounts due to/from brokers for securities purchased or sold consist of trades not yet settled.

Cash and Cash Equivalents

The System considers all highly liquid debt instruments that have a maturity of 90 days or less when purchased to be cash equivalents.

Capital Assets

All capital assets with a unit cost of \$5,000 or greater are capitalized and reported in the accompanying financial statements. Purchased capital assets are valued at cost.

Notes to Financial Statements
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Capital asset costs include the purchase price or construction cost, plus those costs necessary to place the asset in its intended location and condition for use.

Depreciation is calculated using the straight-line method with estimated useful lives of 3 to 40 years.

Administrative Expenses

The cost of administering each of the plans managed by the System is financed primarily by investment income.

Risks and Uncertainties

The System makes investments in accordance with the Board's investment policy in a combination of equities, fixed income securities, infrastructure, private equity, real estate, derivative financial instruments, other investment securities and mutual funds and common/collective trusts holding such investments. The investment policy specifically prohibits investment managers from using derivative financial instruments to introduce leverage without specific prior approval by the Board. Investment securities and securities underlying certain investments are exposed to various risks, such as interest rate risk, market risk, custodial credit risk and credit risk. Investments in the Defined Contribution Plans are individually directed and controlled by plan participants. Due to the level of risk associated with certain investment securities and the level of uncertainty related to changes in the value of investment securities, changes in the values of investment securities are likely to occur in the near term and it is at least possible that such changes could materially affect the amounts reported in the statements of fiduciary net position and changes in fiduciary net position.

During the year ended June 30, 2020, local, U.S., and world governments encouraged self-isolation to curtail the spread of the global pandemic, coronavirus disease (COVID-19), by mandating the temporary shut-down of business in many sectors and imposing limitations on travel and size and duration of group meetings. While these mandates have slowly become less restrictive in some areas, most sectors are still experiencing disruption to business operations and may feel further impacts. There is unprecedented uncertainty surrounding the duration of the pandemic, its potential economic ramifications, and any government actions to mitigate them. Therefore, while management expects this matter could have a financial impact on the System's financial position and results of future operations, such potential impact cannot be reasonably estimated at this time.

Defined Benefit Contributions

Contributions to the Defined Benefit Plans from employers and non-employer contributing entities are established by an actuarial valuation on the basis of actuarial assumptions related to economic indicators (e.g., interest rates, inflation rates), and member and retiree compensation and demographics. By law, the assumptions are adopted by the Board based on recommendation of the System's actuary. The System is also required by Maine law to perform an actuarial experience study whenever the Board, on recommendation of its actuary, determines such a study to be necessary for actuarial soundness or prudent administration.

New Accounting Pronouncements

The System adopted Governmental Accounting Standards Board (GASB) Statement No. 95, Postponement of the Effective Dates of Certain Authoritative Guidance, for the year ended June 30, 2020. This statement extended the effective dates of certain accounting and financial reporting provisions in Statements and Implementation guides that would have been effective for reporting periods beginning after June 15, 2018. Adopting this statement had no material impact on the System's financial reporting.

3. Cash and Cash Equivalents and Investments

The Board is responsible for identifying the System's investment objective and establishing an investment policy to meet that objective. The Board relies on staff and consultants with appropriate expertise to establish investment policy, monitor compliance with that policy, and determine whether the investment objective has been met. The Board established the strategic asset allocation as part of its overall investment policy. The policy identifies the following investment classes and targets for all defined benefit pension plan assets: public equity (30%), private

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equity (15%), traditional credit (7.5%), alternative credit (5%), real estate (10%), infrastructure (10%), natural resources (5%), US Government (7.5%), and risk diversifiers (10%). For the group life insurance plan assets, the policy identifies four investment classes and targets: public equity (70%), real estate (5%), traditional credit (15%), and US Government (10%).

Custodial credit risk is the risk that in the event of a financial institution failure, the System's deposits may not be returned to it. The System has no formal policy for custodial credit risk. Cash and cash-like securities are held at two institutions: Bangor Savings Bank and JP Morgan. Cash balances at Bangor Savings Bank are insured by the Federal Deposit Insurance Corporation up to \$250,000. Bangor Savings Bank mitigates custodial credit risk through use of securities repurchase arrangements.

Cash equivalents at JP Morgan are invested in the JP Morgan Prime Money Market Fund. The JP Morgan Prime Money Market fund is composed of short term debt securities held in a collective fund for the benefit of the System and other investors. All securities purchased in the JP Morgan Prime Money Market must either be payable on demand or have a maturity not exceeding eighteen months from the time of purchase.

The System's cash equivalents and investments are not exposed to custodial credit risk (a) because the underlying investments are registered in the name of the System and held by the System's custodian, or (b) because their existence is not evidenced by securities that exist in physical or book entry form.

These amounts are disclosed in the financial statements at June 30 as follows:

	2020	2019
Cash and Cash Equivalents	\$ 36,941,229	\$ 38,577,286
Investments	15,593,464,655	15,526,855,380
Total Fair Value	<u>\$ 15,630,405,884</u>	<u>\$ 15,565,432,666</u>

Credit risk is the risk an issuer or other counterparty to an investment will not fulfill its obligations to the System. The System has no formal policy on credit risk. The following table summarizes the System's aggregate fixed income portfolio credit ratings at June 30:

Quality Rating⁽¹⁾	2020	2019
AAA	\$ 1,363,796,154	\$ 1,715,664,001
AA	60,689,501	85,449,969
A	247,338,345	270,631,239
BBB	236,650,886	308,476,768
Total Credit Risk Debt	<u>\$ 1,908,474,886⁽²⁾</u>	<u>\$ 2,380,221,977⁽²⁾</u>

(1) Quality ratings are reported using S&P's rating categories and are based on bond ratings assigned by S&P, Moody's, and Fitch. The median rating is used when 3 ratings are available, and the lower or only rating is used in cases where only 2 or a single rating is available.

(2) Includes direct investments in debt securities held by the System as well as debt securities underlying investments in common/collective trusts. In 2020 and 2019, all amounts are from common/collective trusts.

Concentration of credit risk is the risk of loss that may be attributed to the magnitude of investment in a single issue. The System's investment policy places no limit on the amount the System may invest in any one issuer.

There were no individual investments that constitute 5% or more of fiduciary net position for the defined benefit pension plans administered by the System as of June 30, 2020.

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There were no individual investments that constitute 5% or more of fiduciary net position for the other post-employment benefit plans administered by the System as of June 30, 2020.

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. The System has no formal investment policy related to managing interest rate risk. All of the System's fixed income portfolios are managed in accordance with contractual guidelines. Contractual guidelines generally specify a range of effective duration for the portfolio. Duration is widely used in the management of fixed income portfolios as a measure of a debt investment's exposure to fair value changes arising from changing interest rates. The System's interest rate risk is closely aligned with the Barclays Capital Aggregate Index. The following table details the System's interest rate risk for its debt investments at June 30, 2020 and 2019, using the segmented time distribution method. Maturities are based on the weighted average maturities of underlying investments in the common/collective trusts.

Maturities as of June 30, 2020

Investment Type	Fair Value	Less than 1 Year	1 to 6 Years	6 to 10 Years	10+ Years
Common/Collective Trusts	\$ 1,908,474,886	\$ 101,126,038	\$ 1,421,297,586	\$ 210,576,710	\$ 175,474,552
Total	\$ 1,908,474,886	\$ 101,126,038	\$ 1,421,297,586	\$ 210,576,710	\$ 175,474,552

Maturities as of June 30, 2019

Investment Type	Fair Value	Less than 1 Year	1 to 6 Years	6 to 10 Years	10+ Years
Common/Collective Trusts	\$ 2,380,221,977	\$ 124,747,434	\$ 1,710,546,524	\$ 357,818,770	\$ 187,109,250
Total	\$ 2,380,221,977	\$ 124,747,434	\$ 1,710,546,524	\$ 357,818,770	\$ 187,109,250

Foreign currency risk is the risk that changes in exchange rates will adversely impact the recorded fair value of an investment. The System does not have a formal investment policy limiting the amount of foreign currency exposure of its investments. The System's currency exposures reside primarily in the System's international equity investments. The System may hedge a portfolio's foreign currency exposure with currency forward contracts depending on their views of the currency relative to the dollar. All of the System's portfolios are managed in accordance with contractual guidelines. The System has nearly eliminated all direct exposure to foreign currency by using index funds which means the System owns units of U.S. dollar denominated commingled funds rather than conducting transactions directly in foreign currency. The System is still indirectly exposed to all the foreign currencies within the index.

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The System's direct and indirect exposure to foreign currency risk in U.S. dollars as of June 30, 2020 is highlighted in the following table:

Currency	Total
Argentine Peso	\$ 215,741
Australian Dollar	87,197,843
Bermudian Dollar	1,414,251
Brazilian Real	30,181,569
British Pound Sterling	253,705,861
Canadian Dollar	131,902,107
Chilean Peso	3,432,752
Chinese Yuan Renminbi	221,663,719
Colombian Peso	1,220,944
Czech Koruna	655,727
Danish Krone	29,950,750
Egyptian Pound	683,476
Euro	1,027,850,583
Hong Kong Dollar	59,313,371
Hungarian Forint	1,325,537
India Rupee	46,694,044
Indonesian Rupiah	8,709,771
Japanese Yen	332,791,694
Korean Won	67,918,670
Macao Pataca	1,225,657
Malaysian Ringgit	10,276,595
Mexican Peso	10,118,708
New Israeli Sheqel	8,383,984
New Zealand Dollar	4,292,546
Norwegian Krone	6,830,937
Pakistani Rupee	117,386
Papua New Guinea Kina	436,543
Peruvian Sol	201,862
Phillippine Peso	4,736,811
Polish Zloty	4,206,617
Qatar Riyal	4,678,189
Russian Ruble	18,468,638
Saudi Arabian Riyal	15,308,725
Singapore Dollar	14,633,230
South African Rand	21,848,444
Swedish Krona	37,947,669
Swiss Franc	134,244,373
Taiwan Dollar	70,105,234
Thai Baht	13,210,770
Turkish Lira	2,442,475
United Arab Emirates Dirham	3,122,179
Total	\$ 2,693,665,982

The System has entered into contracts to invest in partnerships with a focus on private equity, infrastructure, and real estate investment strategies. As of June 30, 2020, the value of these investments is approximately \$7.1 billion and the remaining funding commitment is approximately \$3.4 billion.

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For the year ended June 30, 2020, the annual money-weighted rate of return on all defined benefit plan investments, net of investment expenses, was 1.8%. For the year ended June 30, 2020, the annual money-weighted rate of return on all OPEB plan investments, net of investment expense, was 6%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested, based on monthly calculations.

The System categorizes its fair value measurements within the fair value hierarchy established by US GAAP. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets. Level 2 inputs are other significant observable inputs. Level 3 inputs are unobservable inputs. The System has the following recurring fair value measurements at June 30:

	June 30, 2020	Fair Value Measurements Using		
		Level 1	Level 2	Level 3
Investments by fair value level				
Common Equity	\$ 2,557,861,687	\$ 2,557,861,687	\$ -	\$ -
Common/Collective Trusts	5,896,509,580	-	5,896,509,580	-
Collateral from loaned securities	206,264,894	-	206,264,894	-
Total investments by fair value level	\$ 8,660,636,161	\$ 2,557,861,687	\$ 6,102,774,474	\$ -
Investments measured at net asset value (NAV)				
Alternative Credit	711,496,903			
Infrastructure	1,606,338,915			
Natural Resources	809,944,319			
Private Equity	2,618,109,220			
Real Estate	1,393,204,031			
Total investments measured at NAV	7,139,093,388			
Total investments measured at fair value	\$ 15,799,729,549			
	June 30, 2019	Fair Value Measurements Using		
		Level 1	Level 2	Level 3
Investments by fair value level				
Common Equity	\$ 2,299,562,007	\$ 2,299,562,007	\$ -	\$ -
Common/Collective Trusts	6,450,026,494	-	6,450,026,494	-
Collateral from loaned securities	199,994,962	-	199,994,962	-
Total investments by fair value level	8,949,583,463	\$ 2,299,562,007	\$ 6,650,021,456	\$ -
Investments measured at net asset value (NAV)				
Alternative Credit	499,396,810			
Infrastructure	1,787,351,032			
Natural Resources	729,602,146			
Private Equity	2,342,849,414			
Real Estate	1,418,067,477			
Total investments measured at NAV	6,777,266,879			
Total investments measured at fair value	\$ 15,726,850,342			

Common Equity

Common equity securities classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets.

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Common/Collective Trusts

Units of collective investment funds, including short-term investment funds, are valued based on quoted prices for similar assets, exchange rates, interest rates, credit risks and default rates. A unit value is determined for each fund on the valuation date. Valuation of each fund is determined each day the Fund is open for contributions and redemptions and, for financial reporting purposes, on the report date should the reporting period end on a date the Fund is not open. Unit values are determined by dividing each Fund's investments at fair value by the number of units outstanding on the valuation date.

Investments Measured at NAV

Alternative investments are generally reported at the NAV obtained from statements provided by the investment managers and assessed by the System as reasonable.

NAVs determined by investment managers generally consider variables including operating results, projected cash flows, recent sales prices and other pertinent information, and may reflect discounts for the illiquid nature of certain investments held. Due to the inherent uncertainties in valuation, the estimated fair values in NAV calculations may differ significantly from values that would have been used had a ready market existed.

The fair value and unfunded commitments for investments measured at NAV per share (or its equivalent) are presented in the following tables:

June 30, 2020		
Investments Measured at NAV	Fair Value	Unfunded Commitments
Alternative Credit ⁽¹⁾	\$ 711,496,903	\$ 477,518,466
Infrastructure funds ⁽²⁾	1,606,338,915	886,447,202
Natural Resources ⁽³⁾	809,944,319	290,067,434
Private Equity ⁽⁴⁾	2,618,109,220	1,377,978,443
Real estate funds ⁽⁵⁾	1,393,204,031	395,181,099
Total investments measured at NAV	\$ 7,139,093,388	\$ 3,427,192,644

June 30, 2019		
Investments Measured at NAV	Fair Value	Unfunded Commitments
Alternative Credit ⁽¹⁾	\$ 499,396,810	\$ 240,925,967
Infrastructure funds ⁽²⁾	1,787,351,032	1,179,047,612
Natural Resources ⁽³⁾	729,602,146	278,317,653
Private Equity ⁽⁴⁾	2,342,849,414	1,378,782,275
Real estate funds ⁽⁵⁾	1,418,067,477	398,423,649
Total investments measured at NAV	\$ 6,777,266,879	\$ 3,475,497,156

(1) Alternative Credit funds are funds that invest primarily in debt instruments issued by non-investment grade and unrated entities. Alternative credit investments are expected to pay or accrue periodic interest and to return principal at maturity. The fair values in this type have been determined using the NAV per share (or its equivalent) of the System's ownership interest in partners' capital. Alternative Credit funds are typically structured as partnerships with fixed lifetimes. A typical structure is a 7-year fund life, where the fund can call capital for investments for 3 years, and then will return capital as loans mature throughout the life of the fund. These funds typically have no provisions for redemptions, though the System's interests could be sold on a secondary market.

(2) Infrastructure funds are funds that invest primarily in infrastructure assets such as roads, ports, pipelines, and airports, primarily in the US and Europe. The fair values in this type have been determined using the NAV per share (or its equivalent) of the System's ownership interest in partners' capital. These funds are generally not available for redemption, and distributions are received as underlying investments within the funds are liquidated, which on average can occur over a span of 10 or more years.

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- (3) Natural Resources funds are funds that invest primarily in assets and businesses related to natural resources such as farming, timber, and mining. The fair values in this type have been determined using the NAV per share (or its equivalent) of the System's ownership interest in partners' capital. These funds are generally not available for redemption, and distributions are received as underlying investments within the funds are liquidated, which on average can occur over a span of 10 or more years.
- (4) Private Equity funds are funds that invest primarily in debt and equity securities of private businesses. The fair values in this type have been determined using the NAV per share (or its equivalent) of the System's ownership interest in partners' capital. These funds are generally not available for redemption, and distributions are received as underlying investments within the funds are liquidated, which on average can occur over a span of 10 or more years.
- (5) Real Estate funds are funds that invest primarily in commercial real estate and real estate debt. The fair values in this type have been determined using the NAV per share (or its equivalent) of the System's ownership interest in partners' capital. The majority of these investments (85% of dollar value) are available for redemption, subject to the timing of asset disposition. The remaining funds are generally not available for redemption, and distributions are received as underlying investments within the funds are liquidated, which on average can occur over a span of 10 or more years.

4. Derivative Securities

Derivative financial instruments are financial contracts whose value depends on the value of one or more underlying assets, reference rates or financial indices. They include futures, forwards, options, and swap contracts. In addition, some traditional securities can have derivative-like characteristics, e.g., asset-backed securities, including collateralized mortgage obligations, which are sensitive to changes in interest rates and to prepayments.

The System may be a party, both directly and indirectly, to various derivative financial investments that are used in the normal course of investing to enhance expected returns on investments, to manage the risk of exposure to changes in value of investments due to fluctuations in market conditions, and to gain passive exposure to markets. In addition to normal market risks these investments may involve, to varying degrees, elements of interest rate risk, credit risk, leverage risk, counterparty risk, and custodial credit risk.

Leverage risk may be created with derivatives. Financial leverage generally involves borrowing and then reinvesting the proceeds with the hope of earning a higher rate of return than the borrowing costs. With derivative instruments economic leverage may be effectively created without any explicit borrowing. Leveraged investments may be more volatile than if an investment had not been leveraged. Leveraging tends to exaggerate the effect of any increase or decrease in the value of an underlying investment. In a leveraged transaction an amount more than the initial investment may be lost. The System's investment policy requires specific approval from the Board of any investment strategy that involves the use of direct financial leverage.

Counterparty risk is the risk that the counterparty to a derivative transaction is unwilling or unable to deliver on their obligations to the System.

The System manages leverage risk and counterparty risk on a manager by manager basis by establishing guidelines with each manager. The manager is customarily allowed to invest within these predetermined guidelines.

The System's managers may also invest in swaps. Interest rate swaps are used to adjust interest rate and yield curve exposures and substitute for physical securities. Long swap positions increase exposure to long term rates; short positions decrease exposure. Credit default swaps are used to manage credit exposure. Purchased credit default swaps decrease credit exposure, while written credit default swaps increase exposure. Total return swaps are a means to gain exposure to an index.

The System may also hold investments in futures and options, which are used to manage various risks within the portfolio. A financial futures contract is an agreement between two parties to buy or sell units of a particular index or a certain amount of a security at a set price on a future date. The System may purchase and sell financial futures contracts to hedge against the effect of changes in the values of securities it owns or expects to purchase.

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In addition to the derivative financial instruments directly held, the System may have indirect exposure to risk through its ownership interests in commingled investment funds, which use, hold or write derivative financial instruments. There also may be indirect exposure in the securities lending programs in which the System participates, in which some collateral pools may include derivatives (note 5). Where derivatives are held in those funds/pools, risks and risk management are as described above.

The System did not have any direct derivative investments as of June 30, 2020 or 2019 or during the years then ended.

5. Securities Lending

The System has entered into agreements with its master custodian to lend to broker-dealers and other entities any type of security held in the System's portfolio and held with the master custodian. Securities are loaned against collateral that may include cash, U.S. government securities and irrevocable letters of credit. U.S. securities are loaned against collateral generally valued at 102% of the fair value of the securities plus any accrued interest. Non-U.S. securities are loaned against collateral valued at 105% of the fair value of the securities plus any accrued interest.

Noncash collateral cannot be pledged or sold unless the borrower defaults. As a result, those securities are excluded from both assets and liabilities.

All securities loans can be terminated on demand by either the lender or the borrower. The average term of the System's loans was approximately 1 day as of June 30, 2020 and 2019.

Cash collateral is invested in a short-term investment account which had an interest sensitivity of 10 and 14 days as of June 30, 2020 and 2019, respectively. Cash collateral may also be invested separately in "term loans," in which case the investments match the loan term. These loans can be terminated on demand by either lender or borrower.

During fiscal years 2020 and 2019, there were no violations of legal or contractual provisions, and no borrower or lending agent default losses identified to the System by the securities lending agent. Securities lending earnings are credited to the System on approximately the fifteenth day of the following month.

Custodial credit risk is the risk that in the event of the insolvency of a borrower, and the master custodian has failed to live up to its contractual responsibilities relating to the lending of those securities, the System's securities are not returned to it. The master custodian's responsibilities include performing appropriate borrower and collateral investment credit analyses, demanding adequate types and levels of collateral, and complying with applicable Department of Labor and Federal Financial Institutions Examination Council regulations concerning securities lending. At June 30, 2020 and 2019, all of the collateral for securities lending is subject to custodial credit risk.

Because of the program's collateralization of loans, generally at 102% (or more), plus accrued interest for fixed income securities, the System believes that there is no material credit risk.

Some of the System's assets are held in common/collective trusts and are subject to similar agreements arranged by those trusts. The income from those arrangements and the associated collateral are not included in the securities lending amounts reported.

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Aggregate securities on loan by asset class are as follows:

	2020	2019
Domestic equity securities on loan	\$ 264,085,139	\$ 278,985,661
Aggregate securities lending collateral:		
Short-term investment collateral pool	\$ 206,264,894	\$ 199,994,962
Noncash collateral	63,904,350	85,729,831
Total collateral	\$ 270,169,244	\$ 285,724,793
Collateral ratio	102.3%	102.4%

6. Defined Benefit Plans

State Employee and Teacher Plan

The State Employee and Teacher Plan administered by MainePERS is a multiple-employer cost sharing plan with a special funding situation. As of June 30, 2020, there were 237 employers, including the State of Maine, participating in the plan. The State of Maine is also a non-employer contributing entity in that the State pays the unfunded actuarial liability on behalf of teachers, while school districts contribute the normal cost, calculated actuarially, for their teacher members.

Plan membership counts for the State Employee and Teacher Plan at June 30 are as follows:

	2020	2019
Current participants:		
Vested and non-vested	40,395	39,876
Terminated participants:		
Vested	8,157	8,188
Inactive due refunds	37,653	38,640
Retirees and beneficiaries receiving benefits	37,151	36,471
	<u>123,356</u>	<u>123,175</u>

Judicial Plan

The Judicial Plan administered by MainePERS is a single-employer plan offered by the State of Maine.

Plan membership counts for the Judicial Plan at June 30 are as follows:

	2020	2019
Current participants:		
Vested and non-vested	58	61
Terminated participants:		
Vested	3	3
Inactive due refunds	1	1
Retirees and beneficiaries receiving benefits	83	76
	<u>145</u>	<u>141</u>

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Legislative Plan

The Legislative Plan administered by MainePERS is a single-employer plan offered by the State of Maine.

Plan membership counts for the Legislative Plan at June 30 are as follows:

	2020	2019
Current participants:		
Vested and non-vested	179	179
Terminated participants:		
Vested	117	124
Inactive due refunds	94	111
Retirees and beneficiaries receiving benefits	206	204
	<u>596</u>	<u>618</u>

PLD Consolidated Plan

The PLD Consolidated Plan administered by MainePERS is a multiple-employer cost sharing plan. Eligible employers (districts) are defined in Maine statute. As of June 30, 2020, there were 301 employers participating in the plan.

Plan membership counts for the PLD Consolidated Plan at June 30 are as follows:

	2020	2019
Current participants:		
Vested and non-vested	11,838	11,731
Terminated participants:		
Vested	2,402	2,350
Inactive due refunds	8,766	8,273
Retirees and beneficiaries receiving benefits	9,860	9,534
	<u>32,866</u>	<u>31,888</u>

PLD Agent Plan

The PLD Agent Plan administered by MainePERS is an agent multiple-employer plan for financial reporting purposes. This plan is an aggregation of single employer plans that were open when the PLD Consolidated Plan began. Under the legislation that created the consolidated plan, single employers could either join the consolidated plan whereby the single employer plan would end, or they could opt to not join the plan and continue to maintain their single employer plan as a closed plan until there were no further liabilities for pension, at which time the single employer plan would be dissolved. As of June 30, 2020, there were 6 employers in the plan.

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Plan membership counts for the PLD Agent Plan at June 30 are as follows:

	2020	2019
Current participants:		
Vested and non-vested	1	12
Terminated participants:		
Vested	–	15
Inactive due refunds	1	4
Retirees and beneficiaries receiving benefits	50	163
	<u>52</u>	<u>194</u>

Benefits

Benefit terms are established in Maine statute; in the case of the PLD Consolidated Plan, an advisory group, also established by Maine statute, reviews the terms of the plan and periodically makes recommendations to the Legislature to amend the terms. The System's retirement programs provide defined retirement benefits based on members' average final compensation and service credit earned as of retirement. Vesting (i.e., eligibility for benefits upon reaching qualification) occurs upon the earning of five years of service credit (effective October 1, 1999, the prior ten year requirement was reduced by legislative action to five years for State employees and teachers; separate legislation enacted the same reduced requirement for judges, legislators, and employees of PLDs). In some cases, vesting occurs on the earning of one year of service credit immediately preceding retirement at or after normal retirement age. Normal retirement age for State employees and teachers, judges and legislative members is age 60, 62 or 65. The normal retirement age is determined by whether a member had met certain creditable service requirements on specific dates, as established by statute. For PLD members, normal retirement age is 60 or 65. The monthly benefit of members who retire before normal retirement age by virtue of having at least 25 years of service credit is reduced by a statutorily prescribed factor for each year of age that a member is below her/his normal retirement age at retirement. The System also provides disability and death benefits which are established by statute for State employee and teacher members and by contract with other participating employers under applicable statutory provisions.

Upon termination of membership, members' accumulated employee contributions are refundable with interest, credited in accordance with statute. Withdrawal of accumulated contributions results in forfeiture of all benefits and membership rights. The annual rate of interest credited to members' accounts is set by the Board and is currently 1.92%.

Funding Policy

The Maine Constitution, Maine statutes and the System's funding policy provide for periodic employer contributions in addition to the normal cost contributions for the State Employee and Teacher Plan. These are actuarially determined amounts that, based on certain actuarial assumptions, are sufficient to fully fund, on an actuarial basis, the State Employee and Teacher Retirement Plan by the year 2028 (Unfunded Actuarial Accrued Liability (UAAL) payments). Level percentage of payroll employer contribution rates are determined using the entry age normal actuarial funding method. The System also uses the level percentage of payroll method to amortize the unfunded liability of the State Employee and Teacher Retirement Plan. For participating employers in the PLD Agent Plan, the level percentage of payroll method is also used.

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Net Pension Liability – State Employee and Teacher Plan

The components of the net pension liability of the State of Maine and participating teacher employers, stated in millions of dollars as of June 30, 2020, were as follows:

Total pension liability	\$ 14,865.4
Plan fiduciary net position	<u>12,044.9</u>
Net pension liability	<u>\$ 2,820.5</u>
Plan fiduciary net position as a percentage of the total pension liability	81.0%

Net Pension Liability – Judicial Plan

The components of the net pension asset of the State of Maine for the Judicial Plan, stated in millions of dollars as of June 30, 2020, were as follows:

Total pension liability	\$ 72.2
Plan fiduciary net position	<u>73.5</u>
Net pension asset	<u>\$ (1.3)</u>
Plan fiduciary net position as a percentage of the total pension liability	101.8%

Net Pension Liability – Legislative Plan

The components of the net pension asset of the State of Maine for the Legislative Plan, stated in millions of dollars as of June 30, 2020, were as follows:

Total pension liability	\$ 9.7
Plan fiduciary net position	<u>13.4</u>
Net pension asset	<u>\$ (3.7)</u>
Plan fiduciary net position as a percentage of the total pension liability	138.3%

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Net Pension Liability – PLD Consolidated Plan

The components of the net pension liability of the PLD Consolidated Plan participating employers, stated in millions of dollars as of June 30, 2020, were as follows:

Total pension liability	\$ 3,409.7
Plan fiduciary net position	3,012.4
Net pension liability	<u>\$ 397.3</u>
Plan fiduciary net position as a percentage of the total pension liability	88.3%

Actuarial Methods and Assumptions

Actuarial valuations of ongoing plans involve estimates of the values of reported amounts and assumptions about the probability of occurrence of events far into the future. Assumptions in an actuarial valuation typically include projections concerning future employment, mortality, and inflation. Actuarially determined contributions are subject to continual periodic revision as actual results are compared to past expectations and new estimates are made concerning the future. The Schedules of Changes in Net Pension Liabilities and Related Ratios, presented as Required Supplementary Information immediately following the Notes to Financial Statements, present multi-year trend information about whether the fiduciary net position of the plan is increasing or decreasing over time relative to the total pension liability of the plan.

Projections of benefits for financial reporting purposes are based on the provisions of the plans in effect at the time of each valuation and the historical pattern of sharing of costs between the employer and plan members. Actuarial methods and assumptions include techniques that are designed to reduce short-term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of the funding methodologies.

The expected value of assets takes the prior year's actuarial value of assets and adjusts it for contributions, benefit payments, and expected interest earnings at the assumed rate for each plan. One-third of the difference between this expected value of assets and the actual fair value of assets is added to or subtracted from the expected value to provide the actuarial value of assets.

Costs are developed using the entry age normal cost method (based on a level percentage of covered payroll).

The initial unfunded actuarial pension liability of the State Employee and Teacher Program is amortized on a level percentage of payroll on a closed basis. The remaining amortization period as of June 30, 2020 was 8 years. All other gains, losses, and changes are amortized over twenty-year periods beginning on the date as of which they occur. The net pension liability of the Judicial and Legislative Plans is amortized on an open basis over a period of ten years. The net pension liability of the PLD Consolidated Plan is amortized on a level percentage of payroll using a method where a separate twenty-year closed period is established annually for the gain or loss for that year. The amortization period can have a significant impact on contribution rates developed through the annual valuation process.

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The total pension liability was determined by an actuarial valuation as of June 30, 2020, using the following actuarial assumptions, applied to all periods included in the measurement period. These same assumptions were used in the actuarial valuation as of June 30, 2019.

	State Employee and Teacher	Judicial Plan	Legislative Plan	PLD Consolidated Plan
Investment Rate of Return	6.75% Per annum, compounded annually			
Inflation Rate	2.75%			
Annual Salary Increases, including Inflation	2.75% plus merit component based on each employee's years of service	2.75%	2.75%	2.75% plus merit component based on each employee's years of service
Cost of Living Benefit Increases	2.20%			1.91%
Mortality Rates	For active members and non-disabled retirees, the RP2014 Total Dataset Healthy Annuitant Mortality Table, for males and females, is used. For all recipients of disability benefits, the RP2014 Total Dataset Disabled Annuitant Mortality Table, for males and females, is used.			

The actuarial assumptions used in the June 30, 2020 and June 30, 2019 actuarial valuations were based on the results of an actuarial experience study for the period of June 30, 2012 to June 30, 2015.

The long-term expected rate of return on Defined Benefit Plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of investment expense and inflation) are developed for each major class of assets. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of geometric real rates of return for each major asset class included in the target asset allocation as of June 30, 2020 are summarized in the following table:

Asset Class	Long-Term Expected Real Rate of Return
Public equities	6.0%
US Government	2.3
Private equity	7.6
Real assets	
Real estate	5.2
Infrastructure	5.3
Natural resources	5.0
Traditional Credit	3.0
Alternative Credit	7.2
Diversifiers	5.9

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Discount Rate

The discount rate used to measure the total pension liability for each of the Defined Benefit Plans was 6.75%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that employer and non-employer entity contributions will be made at contractually required rates, actuarially determined. Based on these assumptions, the fiduciary net position for each of the Defined Benefit Plans was projected to be available to make all projected future benefit payments to current plan members. Therefore, the long-term expected rate of return on investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the net pension liability to changes in the discount rate

The following table presents the net pension liability for the State Employee and Teacher Plan, Judicial Plan, Legislative Plan, and PLD Consolidated Plan calculated using the discount rate of 6.75%, as well as what the net pension liability would be if it were calculated using a discount rate of one percentage point lower (5.75%) or one percentage point higher (7.75%) than the current rate:

	<u>1% Decrease</u> (5.75%)	<u>Current Rate</u> (6.75%)	<u>1% Increase</u> (7.75%)
Net Pension Liability/(Asset):			
State Employee and Teacher Plan	\$ 4,238,894,263	\$ 2,820,543,851	\$ 1,030,188,223
Judicial Plan	5,067,735	(1,317,610)	(6,879,716)
Legislative Plan	(2,758,540)	(3,721,415)	(4,557,481)
PLD Consolidated Plan	834,991,553	397,313,000	39,040,999

Information regarding sensitivity of the net pension liability to changes in the discount rate for individual single employer plans making up the PLD Agent Plan can be found in each Plan's annual actuarial report, available by contacting the System.

Contributions

Retirement benefits are funded by contributions from members and employers and by earnings from investments. Disability and death benefits are funded by employer normal cost contributions and by investment earnings. Member and employer normal cost contributions are each a percentage of applicable member compensation. Member contribution rates are defined by law or MainePERS' Board rule and depend on the terms of the plan under which a member is covered. Employers' contributions are determined by actuarial valuations.

Included in the Employers and Non-employer Contributing Entities Contributions reported in the statement of changes in fiduciary net position are contributions received from the State of Maine on behalf of state employees and teachers in the total amount of \$338.2 million and \$293.9 million, and for judges in the total amount of \$716 thousand and \$1.2 million, for the years ended June 30, 2020 and 2019, respectively. There were no contributions due from the State of Maine on behalf of legislators in 2020 or 2019.

Retirement contribution rates for all employee members are set by law. Employer normal cost retirement contribution rates as applied to State employee members' and teacher members' compensation are the actuarially determined rates. The UAAL rate as applied to State employee members' compensation is first established through the annual valuation process as an amount that will meet the required UAAL payment amount; it is then adjusted in the State's budget process to take into account differences in salary growth projections of the State Budget Office. This adjusted rate, expressed as a percentage of payroll, is the actual rate paid by the State as payment of the required UAAL payment amount for State employees. For teachers, the actuarially determined UAAL amount is paid in twelve equal monthly installments. PLD employer contribution rates are the actuarially determined rates. The rates in effect in 2020 and 2019 are as follows:

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Contribution Rates⁽¹⁾ (effective July 1 through June 30 of each fiscal year)

	2020	2019
State:		
Employees ⁽²⁾	7.65 – 8.65%	7.65 – 8.65%
Employer ⁽²⁾	20.93 – 32.68%	23.44 – 47.64%
Teachers:		
Employees	7.65%	7.65%
Employer	4.16%	3.97%
Non-employer entity	14.33%	11.08%
Judges:		
Employees	7.65%	7.65%
Employer	8.89%	14.94%
Legislative:		
Employees	7.65%	7.65%
Employer	0.00%	0.00%
Participating local districts:		
Employees ⁽²⁾	3.85 – 9.5%	4.5 – 9.5%
Employers ⁽²⁾	4.5 – 16.2%	4.1 – 16.3%

(1) Employer Contribution Rates include normal cost and UAAL required payment, expressed as a percentage of payroll.

(2) Employer and Employee retirement contribution rates vary depending on specific terms of plan benefits for certain classes of employees or, in the case of PLDs, on benefit plan options selected by a particular PLD. The contributions of withdrawn entities that do not have active employees but continue to have other liabilities are set in dollar amounts, not as rates.

7. Group Life Insurance Program

Plan Description

The Group Life Insurance Program administered by MainePERS is comprised of two multiple-employer cost-sharing defined benefit OPEB plans in addition to a multiple-employer cost-sharing plan providing life insurance benefits to active employees. Group Life Insurance Program coverage for active employees is available to eligible participants and includes basic insurance consisting of life insurance and accidental death and dismemberment insurance in the amount equal to the participant's annual base compensation rounded up to the next \$1,000. Additional supplemental insurance coverage is available to those participants who elect basic coverage. Participants may also elect to insure the life of a dependent not otherwise insured under the basic and supplemental insurance provisions of the program.

Group Life Insurance Plan for Retired State Employees and Teachers

The Group Life Insurance Plan for Retired State Employees and Teachers is a multiple-employer cost sharing plan with a special funding situation. As of June 30, 2020 there were 233 employers, including the State of Maine, participating in the plan. The State of Maine is also a non-employer contributing entity in that the State pays contributions for retired public school teachers in the plan.

Plan membership counts for the Group Life Insurance Plan for Retired State Employees and Teachers as of the valuation date are as follows:

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	2020	2019
Retired State Employees	8,741	8,768
Retired Teachers	7,534	7,437
Active State Employees	11,698	11,362
Active Teachers	15,029	14,592
	<u>43,002</u>	<u>42,159</u>

Group Life Insurance Plan for Retired PLD Employees

The Group Life Insurance Plan for Retired PLD employees is a multiple-employer cost sharing plan. As of June 30, 2020 there were 139 employers participating in the plan.

Plan membership counts for the Group Life Insurance Plan for Retired PLD Employees as of the valuation date are as follows:

	2020	2019
Retired PLD Employees	2,879	2,850
Active PLD Employees	5,498	5,495
	<u>8,377</u>	<u>8,345</u>

Benefits

The Group Life Insurance Plans provide basic group life insurance benefits, during retirement, to retirees who participated in the group life insurance plan prior to retirement for a minimum of 10 years (the 10-year participation requirement does not apply to recipients of disability retirement benefits).

The level of coverage in retirement is initially set to an amount equal to the retiree's average final compensation. The initial amount of basic life is then subsequently reduced at the rate of 15% per year to the greater of 40% of the initial amount or \$2,500.

Funding Policy

Premium rates are those determined by the System's Board of Trustees to be actuarially sufficient to pay anticipated claims. For state employee, judicial and legislative employment classes, the premiums for retiree life insurance coverage are factored into the premiums paid for basic coverage while participants are active members. Premiums for basic life insurance coverage for retired teachers are paid by the State of Maine as the total dollar amount of each year's annual required contribution. PLD employers with retired PLD employees are required to remit a premium of \$0.46 per \$1,000 of coverage per month during the post-employment retired period.

Net OPEB Liability – Retired State Employee and Teacher Plan

The components of the net OPEB liability of the State of Maine and participating teacher employers, stated in millions of dollars as of June 30, 2020, were as follows:

Total OPEB liability	\$ 213.3
Plan fiduciary net position	<u>105.6</u>
Net OPEB liability	<u>\$ 107.7</u>
Plan fiduciary net position as a percentage of the total OPEB liability	49.5%

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Net OPEB Liability – PLD Plan

The components of the net OPEB liability of the PLD Plan participating employers, stated in millions of dollars as of June 30, 2020, were as follows:

Total OPEB liability	\$ 29.6
Plan fiduciary net position	16.4
Net OPEB liability	\$ 13.2
Plan fiduciary net position as a percentage of the total OPEB liability	55.4%

Actuarial valuations of ongoing plans involve estimates of the values of reported amounts and assumptions about the probability of occurrence of events far into the future. Assumptions in an actuarial valuation typically include projections concerning future employment, mortality, and inflation. Actuarially determined contribution requirements are subject to continual periodic revision as actual results are compared to past expectations and new estimates are made concerning the future. The Schedule of Historical OPEB Information, presented as Required Supplementary Information immediately following the Notes to Financial Statements, will present multi-year trend information about whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liabilities for benefits.

Actuarial Methods and Assumptions

Projections of benefits for financial reporting purposes are based on the provisions of the plan in effect at the time of each valuation and the historical pattern of sharing of premium costs between the employer and plan members. Actuarial methods and assumptions include techniques that are designed to reduce short-term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of the funding methodologies.

Costs are developed using the individual entry age normal cost method based on a level percentage of payroll.

Significant actuarial assumptions employed by the actuary for funding purposes as of June 30, 2020 are displayed in the table below. The valuation date is June 30, 2020. These same assumptions were used as of June 30, 2019 unless otherwise noted.

	State employees, including judges and legislators	Teachers	PLD employees
Investment Rate of Return	6.75% Per annum, compounded annually		
Inflation Rate	2.75%		
Annual Salary Increases, including Inflation	2.75% – 8.75%	2.75% – 14.50%	2.75% – 9.00%
Mortality Rates	For active members and non-disabled retirees of the State employees and teachers, legislative, judicial, and PLD plans, the RP2014 Total Dataset Healthy Annuitant Mortality Table, for males and females, is used. For all recipients of disability benefits, the RP2014 Total Dataset Disabled Annuitant Mortality Table, for males and females, is used.		
Participation Rate for Future Retirees	100% of those currently enrolled		
Conversion Charges	Apply to the cost of active group life insurance, not retiree group life insurance		
Form of Benefit Payment	Lump sum		

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The unfunded actuarial accrued liability is being amortized as a level percentage of payroll over a 30-year period on a closed basis. As of June 30, 2020, there were 17 years remaining in the amortization schedule for state employees and teachers, and 10 years remaining for PLD employees.

The actuarial assumptions used in the June 30, 2020 and June 30, 2019 actuarial valuations were based on the results of an actuarial experience study conducted for the period of June 30, 2012 to June 30, 2015.

The long-term expected rate of return on OPEB Plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of investment expense and inflation) are developed for each major class of assets. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of geometric real rates of return for each major asset class included in the target asset allocation as of June 30, 2020 are summarized in the following table:

<u>Asset Class</u>	<u>Long-Term Expected Real Rate of Return</u>
Public equity	6.0%
Real estate	5.2
Traditional credit	3.0
US Government securities	2.3

Discount Rate

The discount rate used to measure the total OPEB liability for the State Employee and Teacher Plan and the PLD Plan was 6.75% in 2020. The projection of cash flows used to determine the discount rate assumed that employer and non-employer entity contributions will be made at contractually required rates, actuarially determined. Based on these assumptions, the Plan's fiduciary net position was projected to be available to make all projected future benefit payments to current plan members. Therefore, the long-term expected rate of return on investments was applied to all periods of projected benefit payments to determine the total OPEB liability.

In 2019, the discount rate used to measure the total OPEB liability for the PLD Plan was 4.98% which is a blend of the assumed long-term expected rate of return of 6.75% and a municipal bond index rate of 3.5%, based on the Bond Buyer GO 20-Year Municipal Bond Index as of June 30, 2019. Projections of the Plan's fiduciary net position indicated that it was not expected to be sufficient to make projected benefit payments for current members beyond 2050. Therefore, the portion of future projected benefit payments after 2050 were discounted at the municipal bond index rate. The projection of cash flows used to determine the discount rate assumed that employer and non-employer entity contributions will be made at contractually required rates, actuarially determined.

Sensitivity of the net OPEB liability to changes in the discount rate

The following table presents the net OPEB liability for the Retired State Employee and Teacher Plan calculated using the discount rate of 6.75%, as well as what the net OPEB liability would be if it were calculated using a discount rate of one percentage point lower (5.75%) or one percentage point higher (7.75%) than the current rate:

	<u>1% Decrease (5.75%)</u>	<u>Current Rate (6.75%)</u>	<u>1% Increase (7.75%)</u>
Net OPEB Liability	\$ 138,563,132	\$ 107,692,418	\$ 82,569,117

The following table presents the net OPEB liability for the PLD Plan calculated using the discount rate of 6.75%, as well as what the net OPEB liability would be if it were calculated using a discount rate of one percentage point lower (5.75%) or one percentage point higher (7.75%) than the current rate:

	<u>1% Decrease (5.75%)</u>	<u>Current Rate (6.75%)</u>	<u>1% Increase (7.75%)</u>
Net OPEB Liability	\$ 17,767,413	\$ 13,192,182	\$ 9,514,819

Notes to Financial Statements
June 30, 2020
With Summarized Information for June 30, 2019

Premiums

The basic life benefits for participants are funded by the State, school districts, PLDs and individuals. Participants pay additional premiums for supplemental and dependent insurance based upon the coverage selected.

Maine statute requires the System's Board of Trustees to establish on a regular basis the premium rates for participants in the Group Life Insurance Plan. The premium rates are determined to be actuarially sufficient to pay anticipated claims and cover administrative costs. The State of Maine remits premiums at a single rate that supports basic coverage for active and retired state employees (including Legislative and Judicial employees). This rate is \$.82 per month for every \$1,000 of coverage. The State remits premiums for retired teachers at a rate of \$.33 per month for every \$1,000 of coverage. As per individual collective bargaining agreements between employers and employees, individual school districts or teachers themselves pay premiums at the rate of \$.11 per month for every \$1,000 of coverage while active, and employees of participating local districts or the district itself pay premiums of \$.46 per month for every \$1,000 in coverage for employees while active and retired. Employees' premiums are usually deducted from employees' compensation and remitted to the System.

Included in the Employers and Non-employer Contributing Entities Contributions and Premiums in the statement of changes in fiduciary net position are group life insurance premiums received from the State of Maine on behalf of active and retired state employees, retired teachers, legislators, and judges in the total amount of \$10.8 and \$9.0 million, respectively, for the years ended June 30, 2020 and 2019.

Benefits

Upon service retirement, only basic life insurance in an amount equal to the retiree's average final compensation will continue at no cost to the participant as long as the retiree participated in the group life insurance plan prior to retirement for a minimum of 10 years.

If a participant becomes eligible for disability retirement, the amount of basic insurance in force at the time of such retirement will be continued until normal retirement age, after which the amount will be reduced at the same rate as for a service retiree. The 10-year participation requirement does not apply to recipients of disability retirement benefits.

Under the Accidental Death and Dismemberment provisions of the plan, no legal action can be brought to recover under any benefit after 3 years from the deadline for filing claims. The deadline for filing claims under the Accidental Death and Dismemberment provisions of the plan is 90 days after the date of the loss giving rise to the claim.

Claims Processing Expenses

All benefits are processed and paid by a third-party administrator (TPA). The fees incurred for services performed by the TPA totaled \$828,074 and \$900,911 for the years ended June 30, 2020 and 2019, respectively, and are listed as claims processing expenses in the basic financial statements.

8. Statutory and Constitutional Requirements

An amendment to the Maine constitution approved in November 1995 requires the State of Maine to fund the unfunded actuarial liability of the State Employee and Teacher Retirement Plan existing on June 30, 1996, over a period not to exceed 31 years beginning July 1, 1997, and not later than June 30, 2028. The amendment prohibits the creation of new unfunded liabilities in that Plan except those arising from experience losses, which under the 1995 amendment must be funded over a period of not more than ten years. An amendment approved in November 2017 extends the period from ten years to twenty years.

Notes to Financial Statements
June 30, 2020
With Summarized Information for June 30, 2019

9. The System's Employee Benefits

Defined Benefit Plan

The System, as the employer of its staff, is a PLD in the PLD Consolidated Plan. As such, the System's employees are required by statute to contribute 7.35% or 8.1% their annual covered salaries, depending on which plan they participate in. The System is required to contribute at the contribution rate established by the Board under the actuarial valuation of the PLD Consolidated Plan. The contribution rate was 10% of annual covered payroll for 2020 and 2019.

The employer contributions on behalf of its employees, equal to the required contribution, were \$732,879 and \$679,818 for 2020 and 2019, respectively. The actuarial assumptions used in the PLD Consolidated Plan valuation are described in the actuarial assumptions and methods footnote to the required supplementary information.

The System's contributions to the PLD Consolidated Plan are treated as administrative costs of the Plan and are funded as a component of normal cost and included in the contribution rates paid by all employers in each of the plans administered by the System. Accordingly, the System does not reflect a portion of the collective net pension liability or related deferred inflows and outflows of resources related to pension obligations in the System's basic financial statements.

Group Life Insurance Plan

The System, as the employer of its staff, is a PLD in the Group Life Insurance Plan. The System pays the premiums for Basic only coverage for all active employees. Employees who elect additional coverage under the Supplemental and/or Dependent provisions have the additional required premiums withheld from their pay in order to fund such coverage.

The System was required to pay premiums for Basic coverage at the rate of \$0.46 per \$1,000 of coverage for the 2020 and 2019 fiscal years. The total premiums the System paid on behalf of its active employees, equal to the required contributions, were \$35,488 and \$35,307 for 2020 and 2019, respectively.

Other Post-Employment Benefits

The System provides OPEB to its retirees in the form of health insurance coverage and group life insurance coverage. The System's annual OPEB costs are actuarially determined based on the parameters of GASB Statement No. 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions.

The total contributions for retiree health insurance coverage, equal to the actuarially determined contributions, were \$0 for 2020 and 2019. The OPEB liability for this plan is immaterial and the Plan's assets exceed its actuarial liability at June 30, 2020 and 2019. The actuarial liability is calculated using assumptions similar to those used for the System's defined benefit plan.

The total contributions for retiree group life insurance coverage, equal to the actuarially determined contributions, were \$7,748 and \$5,964 for 2020 and 2019. The OPEB liability for this plan is immaterial.

10. Risk Management

The System carries insurance to cover its exposure to various risks of loss. There were no uninsured losses during the last three years.

Required Supplementary Information

Schedule of Historical Pension Information
State Employee and Teacher Plan
June 30, 2020 (Unaudited)

Schedule of Changes in the Plan's Net Pension Liability and Related Ratios
Last Ten Fiscal Years*

	<u>2020</u>	<u>2019</u>
Total pension liability		
Service cost	\$ 231,226,103	\$ 224,775,112
Interest	968,243,358	934,009,648
Changes of benefit terms	1,223,156	-
Differences between expected and actual experience	162,293	208,719,412
Changes of assumption	-	-
Benefit payments, including refunds of member contributions	<u>(882,617,693)</u>	<u>(851,469,104)</u>
Net change in total pension liability	318,237,217	516,035,068
Total pension liability, beginning	<u>14,547,222,913</u>	<u>14,031,187,845</u>
Total pension liability, ending (a)	<u>\$ 14,865,460,130</u>	<u>\$ 14,547,222,913</u>
Plan fiduciary net position		
Contributions – members	\$ 151,438,848	\$ 146,019,051
Contributions – employers	225,468,762	218,530,934
Contributions – non-employer contributing entities	174,530,364	132,980,832
Investment income	354,272,726	768,987,130
Benefits paid, including refunds and withdrawals	(882,819,483)	(851,653,558)
Administrative expenses	(11,343,928)	(11,180,852)
Other	<u>(2,193,752)</u>	<u>(311,233)</u>
Net change in fiduciary net position	9,353,537	403,372,304
Plan fiduciary net position, beginning	<u>12,035,565,075</u>	<u>11,632,192,771</u>
Plan fiduciary net position, ending (b)	<u>\$ 12,044,918,612</u>	<u>\$ 12,035,565,075</u>
Plan's net pension liability, ending (a)-(b)	<u>\$ 2,820,541,518</u>	<u>\$ 2,511,657,838</u>
Plan fiduciary net position as a percentage of the total pension liability	81.03%	82.73%
Covered payroll	\$ 2,003,075,813	\$ 1,924,006,618
Plan net pension liability as a percentage of covered payroll	140.81%	130.54%

See notes to historical pension and OPEB information.

*This information will be presented each year until 10 years of such information is available.

See accompanying independent auditor's report.

Required Supplementary Information

Schedule of Historical Pension Information
State Employee and Teacher Plan
June 30, 2020 (Unaudited)

<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
\$ 215,826,380	\$ 213,047,075	\$ 203,297,053	\$ 191,528,649	\$ 186,376,754
914,535,911	886,834,221	882,785,134	861,682,508	842,229,062
-	-	-	9,778,106	-
34,151,279	95,207,531	81,506,700	(44,287,643)	(17,694,276)
191,998,939	-	30,436,605	-	167,650,573
(810,211,176)	(780,157,263)	(744,357,598)	(722,573,349)	(689,053,212)
546,301,333	414,931,564	453,667,894	296,128,271	489,508,901
<u>13,484,886,512</u>	<u>13,069,954,948</u>	<u>12,616,287,054</u>	<u>12,320,158,783</u>	<u>11,830,649,882</u>
<u>\$ 14,031,187,845</u>	<u>\$ 13,484,886,512</u>	<u>\$ 13,069,954,948</u>	<u>\$ 12,616,287,054</u>	<u>\$ 12,320,158,783</u>
\$ 140,844,880	\$ 139,464,284	\$ 125,523,987	\$ 123,528,807	\$ 121,033,152
211,251,144	211,037,365	199,212,719	173,935,492	162,920,147
129,421,735	116,080,164	112,477,836	147,283,716	142,303,104
1,077,827,554	1,256,043,735	40,540,759	191,829,057	1,517,432,345
(810,381,770)	(780,325,980)	(744,523,744)	(722,724,258)	(689,191,030)
(10,076,242)	(9,216,027)	(8,649,031)	(9,386,695)	(8,246,740)
-	(124,178)	(6,342,010)	-	-
738,887,301	932,959,363	(281,759,484)	(95,533,881)	1,246,250,978
<u>10,893,305,470</u>	<u>9,960,346,107</u>	<u>10,242,105,591</u>	<u>10,337,639,472</u>	<u>9,091,388,494</u>
<u>\$ 11,632,192,771</u>	<u>\$ 10,893,305,470</u>	<u>\$ 9,960,346,107</u>	<u>\$ 10,242,105,591</u>	<u>\$ 10,337,639,472</u>
<u>\$ 2,398,995,074</u>	<u>\$ 2,591,581,042</u>	<u>\$ 3,109,608,841</u>	<u>\$ 2,374,181,463</u>	<u>\$ 1,982,519,311</u>
82.90%	80.78%	76.21%	81.18%	83.91%
\$ 1,808,274,919	\$ 1,860,294,435	\$ 1,816,435,084	\$ 1,699,160,889	\$ 1,676,857,294
132.67%	139.31%	171.19%	139.73%	118.23%

Required Supplementary Information
 Schedule of Historical Pension Information
 Judicial Plan
 June 30, 2020 (Unaudited)

Schedule of Changes in the Plan's Net Pension Liability and Related Ratios
 Last Ten Fiscal Years*

	<u>2020</u>	<u>2019</u>
Total pension liability		
Service cost	\$ 1,608,376	\$ 1,596,832
Interest	4,644,191	4,582,454
Changes of benefit terms	-	-
Differences between expected and actual experience	942,561	(1,087,164)
Changes of assumptions	-	-
Benefit payments, including refunds of member contributions	<u>(4,314,558)</u>	<u>(4,067,506)</u>
Net change in total pension liability	2,880,570	1,024,616
Total pension liability, beginning	<u>69,316,540</u>	<u>68,291,924</u>
Total pension liability, ending (a)	<u><u>\$ 72,197,110</u></u>	<u><u>\$ 69,316,540</u></u>
Plan fiduciary net position		
Contributions – members	\$ 616,095	\$ 620,075
Contributions – employers	715,963	1,212,666
Investment income	2,164,283	4,709,445
Benefits paid, including refunds and withdrawals	(4,314,558)	(4,067,506)
Administrative expenses	(69,406)	(68,475)
Other	<u>764,902</u>	<u>(2,604)</u>
Net change in fiduciary net position	(122,721)	2,403,601
Plan fiduciary net position, beginning	<u>73,637,441</u>	<u>71,233,840</u>
Plan fiduciary net position, ending (b)	<u><u>\$ 73,514,720</u></u>	<u><u>\$ 73,637,441</u></u>
Plan's net pension (asset) liability, ending (a)-(b)	<u><u>\$ (1,317,610)</u></u>	<u><u>\$ (4,320,901)</u></u>
Plan fiduciary net position as a percentage of the total pension liability	101.83%	106.23%
Covered payroll	\$ 8,053,577	\$ 8,116,908
Plan net pension (asset) liability as a percentage of covered payroll	(16.36)%	(53.23)%

See notes to historical pension and OPEB information.

*This information will be presented each year until 10 years of such information is available.

See accompanying independent auditor's report.

Required Supplementary Information
 Schedule of Historical Pension Information
 Judicial Plan
 June 30, 2020 (Unaudited)

<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
\$ 1,487,383	\$ 1,465,977	\$ 1,396,704	\$ 1,605,751	\$ 1,530,119
4,442,404	4,358,175	4,154,433	3,863,455	3,773,959
-	-	2,016,584	27,931	-
468,895	(893,352)	(1,745,956)	2,237,833	(324,891)
697,807	-	2,489,800	-	426,150
<u>(3,804,709)</u>	<u>(3,651,927)</u>	<u>(3,501,911)</u>	<u>(3,383,995)</u>	<u>(3,219,480)</u>
3,291,780	1,278,873	4,809,654	4,350,975	2,185,857
<u>65,000,144</u>	<u>63,721,271</u>	<u>58,911,617</u>	<u>54,560,642</u>	<u>52,373,785</u>
<u>\$ 68,291,924</u>	<u>\$ 65,000,144</u>	<u>\$ 63,721,271</u>	<u>\$ 58,911,617</u>	<u>\$ 54,560,642</u>
\$ 603,875	\$ 584,451	\$ 549,845	\$ 549,691	\$ 528,192
1,179,328	1,144,445	1,077,545	979,281	932,223
6,606,905	7,799,507	129,372	1,055,346	8,416,042
<u>(3,804,709)</u>	<u>(3,651,927)</u>	<u>(3,501,911)</u>	<u>(3,383,995)</u>	<u>(3,219,480)</u>
(61,708)	(56,436)	(47,577)	(49,399)	(41,680)
-	-	<u>6,342,010</u>	-	-
4,523,691	5,820,040	4,549,284	(849,076)	6,615,297
<u>66,710,149</u>	<u>60,890,109</u>	<u>56,340,825</u>	<u>57,189,901</u>	<u>50,574,604</u>
<u>\$ 71,233,840</u>	<u>\$ 66,710,149</u>	<u>\$ 60,890,109</u>	<u>\$ 56,340,825</u>	<u>\$ 57,189,901</u>
<u>\$ (2,941,916)</u>	<u>\$ (1,710,005)</u>	<u>\$ 2,831,162</u>	<u>\$ 2,570,792</u>	<u>\$ (2,629,259)</u>
104.32%	102.63%	95.56%	95.64%	104.82%
\$ 7,893,762	\$ 7,639,818	\$ 7,188,426	\$ 7,185,501	\$ 6,742,444
(37.27)%	(22.38)%	39.39%	35.78%	(39.00)%

Required Supplementary Information
 Schedule of Historical Pension Information
 Legislative Plan
 June 30, 2020 (Unaudited)

Schedule of Changes in the Plan's Net Pension Liability and Related Ratios
 Last Ten Fiscal Years*

	<u>2020</u>	<u>2019</u>
Total pension liability		
Service cost	\$ 334,862	\$ 297,324
Interest	611,447	577,720
Changes of benefit terms	-	-
Differences between expected and actual experience	413,313	238,611
Changes of assumptions	-	-
Benefit payments, including refunds of member contributions	<u>(697,697)</u>	<u>(606,841)</u>
Net change in total pension liability	661,925	506,814
Total pension liability, beginning	<u>9,066,764</u>	<u>8,559,950</u>
Total pension liability, ending (a)	<u>\$ 9,728,689</u>	<u>\$ 9,066,764</u>
Plan fiduciary net position		
Contributions – members	\$ 156,306	\$ 220,611
Contributions – employers	-	-
Investment income	390,165	845,407
Benefits paid, including refunds and withdrawals	(697,697)	(606,840)
Administrative expenses	(12,458)	(12,262)
Other	<u>365,766</u>	<u>45,285</u>
Net change in fiduciary net position	202,082	492,201
Plan fiduciary net position, beginning	<u>13,248,022</u>	<u>12,755,821</u>
Plan fiduciary net position, ending (b)	<u>\$ 13,450,104</u>	<u>\$ 13,248,022</u>
Plan's net pension asset, ending (a)-(b)	<u>\$ (3,721,415)</u>	<u>\$ (4,181,258)</u>
Plan fiduciary net position as a percentage of the total pension liability	138.25%	146.12%
Covered payroll	\$ 2,814,060	\$ 2,659,749
Plan net pension asset as a percentage of covered payroll	(132.24)%	(157.20)%

See notes to historical pension and OPEB information.

*This information will be presented each year until 10 years of such information is available.

See accompanying independent auditor's report.

Required Supplementary Information

Schedule of Historical Pension Information
Legislative Plan
June 30, 2020 (Unaudited)

<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
\$ 282,199	\$ 264,807	\$ 411,624	\$ 451,393	\$ 400,072
565,088	530,313	547,268	544,526	510,813
-	-	-	4,418	-
(90,816)	157,775	(245,867)	(508,125)	(46,483)
99,915	-	(146,529)	-	85,783
<u>(459,746)</u>	<u>(469,043)</u>	<u>(445,331)</u>	<u>(439,112)</u>	<u>(317,606)</u>
396,640	483,852	121,165	53,100	632,579
<u>8,163,310</u>	<u>7,679,458</u>	<u>7,558,293</u>	<u>7,505,193</u>	<u>6,872,614</u>
<u>\$ 8,559,950</u>	<u>\$ 8,163,310</u>	<u>\$ 7,679,458</u>	<u>\$ 7,558,293</u>	<u>\$ 7,505,193</u>
\$ 153,881	\$ 202,388	\$ 137,893	\$ 193,356	\$ 139,501
-	-	-	4,418	3,857
1,176,463	1,366,222	47,890	206,454	1,622,296
(459,746)	(469,043)	(445,331)	(439,112)	(317,606)
(11,002)	(10,003)	(9,353)	(9,584)	(7,975)
<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
859,596	1,089,564	(268,901)	(44,468)	1,440,073
<u>11,896,225</u>	<u>10,806,661</u>	<u>11,075,562</u>	<u>11,120,030</u>	<u>9,679,957</u>
<u>\$ 12,755,821</u>	<u>\$ 11,896,225</u>	<u>\$ 10,806,661</u>	<u>\$ 11,075,562</u>	<u>\$ 11,120,030</u>
<u>\$ (4,195,871)</u>	<u>\$ (3,732,915)</u>	<u>\$ (3,127,203)</u>	<u>\$ (3,517,269)</u>	<u>\$ (3,614,837)</u>
149.02%	145.73%	140.72%	146.54%	148.16%
\$ 2,710,694	\$ 2,651,195	\$ 2,590,011	\$ 2,527,525	\$ 2,534,740
(154.79)%	(140.80)%	(120.74)%	(139.16)%	(142.61)%

Required Supplementary Information

Schedule of Historical Pension Information
 PLD Consolidated Plan
 June 30, 2020 (Unaudited)

Schedule of Changes in the Plan's Net Pension Liability and Related Ratios
 Last Ten Fiscal Years*

	<u>2020</u>	<u>2019</u>
Total pension liability		
Service cost	\$ 82,715,056	\$ 78,317,217
Interest	219,752,007	208,360,684
Changes in benefit terms	29,759,516	-
Differences between expected and actual experience	(6,552,650)	47,684,163
Changes of assumptions	-	-
Benefit payments, including refunds of member contributions	<u>(174,752,167)</u>	<u>(165,399,679)</u>
Net change in total pension liability	150,921,762	168,962,385
Total pension liability, beginning	<u>3,258,819,605</u>	<u>3,089,857,220</u>
Total pension liability, ending (a)	<u>\$ 3,409,741,367</u>	<u>\$ 3,258,819,605</u>
Plan fiduciary net position		
Contributions – members	\$ 54,090,045	\$ 54,927,202
Contributions – employers	66,717,733	61,487,037
Refunds of IUUAL account balances	-	-
Investment income	88,330,927	188,620,107
Benefits paid, including refunds and withdrawals	(174,752,167)	(165,399,680)
Administrative expenses	(2,797,728)	(2,706,977)
Other	<u>27,683,461</u>	<u>48,552</u>
Net change in fiduciary net position	59,272,271	136,976,241
Plan fiduciary net position, beginning	<u>2,953,156,096</u>	<u>2,816,179,855</u>
Plan fiduciary net position, ending (b)	<u>\$ 3,012,428,367</u>	<u>\$ 2,953,156,096</u>
Plan's net pension liability, ending (a)-(b)	<u>\$ 397,313,000</u>	<u>\$ 305,663,509</u>
Plan fiduciary net position as a percentage of the total pension liability	88.35%	90.62%
Covered payroll	\$ 641,523,784	\$ 593,884,355
Plan net pension liability as a percentage of covered payroll	61.93%	51.47%

See notes to historical pension and OPEB information.

*This information will be presented each year until 10 years of such information is available.

See accompanying independent auditor's report.

Required Supplementary Information

Schedule of Historical Pension Information
 PLD Consolidated Plan
 June 30, 2020 (Unaudited)

<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
\$ 76,190,510	\$ 76,271,766	\$ 74,208,414	\$ 75,805,492	\$ 72,651,025
207,492,397	198,972,490	192,774,429	187,928,506	178,293,576
(106,123,366)	—	—	—	—
1,285,303	(2,160,603)	(9,142,757)	(54,634,906)	19,939,857
46,439,540	—	50,884,219	37,593,598	—
<u>(152,087,885)</u>	<u>(146,163,566)</u>	<u>(139,919,680)</u>	<u>(135,414,526)</u>	<u>(127,161,357)</u>
73,196,499	126,920,087	168,804,625	111,278,164	143,723,101
<u>3,016,660,721</u>	<u>2,889,740,634</u>	<u>2,720,936,009</u>	<u>2,609,657,845</u>	<u>2,465,934,744</u>
<u>\$ 3,089,857,220</u>	<u>\$ 3,016,660,721</u>	<u>\$ 2,889,740,634</u>	<u>\$ 2,720,936,009</u>	<u>\$ 2,609,657,845</u>
\$ 48,050,202	\$ 46,080,851	\$ 40,861,405	\$ 37,202,921	\$ 33,210,510
56,092,662	51,387,011	47,624,182	43,366,730	32,706,160
—	—	—	(43,000,526)	—
259,699,519	299,780,948	10,200,342	46,075,304	361,125,177
(152,087,885)	(146,163,566)	(139,919,680)	(135,414,526)	(127,161,358)
(2,411,666)	(2,209,324)	(2,028,294)	(2,117,266)	(1,779,304)
<u>(386,621)</u>	<u>(62,201)</u>	<u>(217,338)</u>	<u>—</u>	<u>—</u>
208,956,211	248,813,719	(43,479,383)	(53,887,363)	298,101,185
<u>2,607,223,644</u>	<u>2,358,409,925</u>	<u>2,401,889,308</u>	<u>2,455,776,671</u>	<u>2,157,675,486</u>
<u>\$ 2,816,179,855</u>	<u>\$ 2,607,223,644</u>	<u>\$ 2,358,409,925</u>	<u>\$ 2,401,889,308</u>	<u>\$ 2,455,776,671</u>
<u>\$ 273,677,365</u>	<u>\$ 409,437,077</u>	<u>\$ 531,330,709</u>	<u>\$ 319,046,699</u>	<u>\$ 153,881,174</u>
91.14%	86.43%	81.61%	88.27%	94.10%
\$ 561,126,768	\$ 542,572,528	\$ 521,870,235	\$ 497,616,846	\$ 460,029,637
75.46%	75.46%	101.81%	64.11%	33.45%

Required Supplementary Information

Schedule of Historical Pension Information
State Employee and Teacher Plan
June 30, 2020 (Unaudited)

Schedule of Employer Contributions
Last Ten Fiscal Years

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Actuarially determined contribution	\$ 399,775,788	\$ 350,583,375	\$ 340,376,744	\$ 312,736,906
Contributions in relation to the actuarially determined contribution	<u>399,775,788</u>	<u>350,583,375</u>	<u>340,376,744</u>	<u>312,736,906</u>
Contribution deficiency (excess)	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>
Covered payroll	\$ 2,003,075,813	\$ 1,924,006,618	\$ 1,865,849,388	\$ 1,860,230,663
Contributions as a percentage of covered payroll	19.96%	18.22%	18.24%	16.81%

See notes to historical pension and OPEB information.

See accompanying independent auditor's report.

Required Supplementary Information

Schedule of Historical Pension Information
Judicial Plan
June 30, 2020 (Unaudited)

Schedule of Employer Contributions
Last Ten Fiscal Years

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Actuarially determined contribution	\$ 715,963	\$ 1,212,666	\$ 1,179,328	\$ 1,144,445
Contributions in relation to the actuarially determined contribution	<u>715,963</u>	<u>1,212,666</u>	<u>1,179,328</u>	<u>1,144,445</u>
Contribution deficiency (excess)	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>
Covered payroll	\$ 8,053,577	\$ 8,116,908	\$ 7,893,762	\$ 7,639,818
Contributions as a percentage of covered payroll	8.89%	14.99%	14.94%	14.98%

See notes to historical pension and OPEB information.

See accompanying independent auditor's report.

<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>
\$ 301,891,511	\$ 302,028,725	\$ 304,328,386	\$ 263,553,204	\$ 252,019,252	\$ 327,087,527
<u>301,891,511</u>	<u>302,028,725</u>	<u>304,328,386</u>	<u>263,553,204</u>	<u>252,019,252</u>	<u>332,956,361</u>
\$ <u> -</u>	\$ <u>(5,868,837)</u>				
\$ 1,816,435,084	\$ 1,699,160,889	\$ 1,676,857,294	\$ 1,672,857,294	\$ 1,718,449,172	\$ 1,643,389,735
16.62%	17.78%	18.15%	15.75%	14.67%	20.26%

<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>
\$ 1,077,545	\$ 951,351	\$ 932,223	\$ 841,397	\$ 810,721	\$ 987,261
<u>1,077,545</u>	<u>951,351</u>	<u>932,223</u>	<u>841,397</u>	<u>810,721</u>	<u>987,261</u>
\$ <u> -</u>					
\$ 7,188,426	\$ 7,185,501	\$ 6,742,444	\$ 6,742,444	\$ 6,790,274	\$ 6,790,233
14.99%	13.24%	13.83%	12.48%	11.94%	14.54%

Required Supplementary Information

Schedule of Historical Pension Information
Legislative Plan
June 30, 2020 (Unaudited)

Schedule of Employer Contributions
Last Ten Fiscal Years

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Actuarially determined contribution	\$ -	\$ -	\$ -	\$ -
Contributions in relation to the actuarially determined contribution	-	-	-	-
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Covered payroll	\$ 2,814,060	\$ 2,659,749	\$ 2,710,694	\$ 2,651,195
Contributions as a percentage of covered payroll	0.00%	0.00%	0.00%	0.00%

See notes to historical pension and OPEB information.

See accompanying independent auditor's report.

Required Supplementary Information

Schedule of Historical Pension Information
PLD Consolidated Plan
June 30, 2020 (Unaudited)

Schedule of Employer Contributions
Last Ten Fiscal Years

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Actuarially determined contribution	\$ 66,717,733	\$ 61,170,089	\$ 55,551,550	\$ 51,387,011
Contributions in relation to the actuarially determined contribution	66,717,733	61,170,089	55,551,550	51,387,011
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Covered payroll	\$ 641,523,784	\$ 593,884,355	\$ 561,126,768	\$ 542,572,528
Contributions as a percentage of covered payroll	10.40%	10.30%	9.90%	9.47%

See notes to historical pension and OPEB information.

See accompanying independent auditor's report.

<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
-	-	-	-	-	-
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<u>\$ 2,590,011</u>	<u>\$ 2,527,525</u>	<u>\$ 2,534,740</u>	<u>\$ 2,534,740</u>	<u>\$ 2,424,480</u>	<u>\$ 2,395,694</u>
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>
\$ 46,968,321	\$ 40,302,580	\$ 35,263,952	\$ 29,704,314	\$ 25,056,574	\$ 19,995,608
<u>46,968,321</u>	<u>40,302,580</u>	<u>35,263,952</u>	<u>29,704,314</u>	<u>25,372,687</u>	<u>19,995,608</u>
\$ -	\$ -	\$ -	\$ -	\$ (316,113)	\$ -
<u>\$ 521,870,235</u>	<u>\$ 497,616,846</u>	<u>\$ 460,029,637</u>	<u>\$ 458,424,764</u>	<u>\$ 474,828,262</u>	<u>\$ 435,012,940</u>
9.00%	8.10%	7.67%	6.48%	5.34%	4.60%

Required Supplementary Information

Schedule of Historical Pension Information
All Defined Benefit Plans
June 30, 2020 (Unaudited)

Schedule of Investment Returns
Last Ten Fiscal Years*

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Annual money-weighted rate of return, net of investment expenses	1.8%	7.08%	10.30%	12.49%	0.48%	1.98%	16.66%

See notes to historical pension and OPEB information.

* Retroactive information is not required to be presented. This information will be presented each year until 10 years of such information is available.

See accompanying independent auditor's report.

Required Supplementary Information

Schedule of Historical OPEB Information
State Employee and Teacher Plan
June 30, 2020 (Unaudited)

Schedule of Changes in the Plan's Net OPEB Liability and Related Ratios
Last Ten Fiscal Years*

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Total OPEB liability				
Service cost	\$ 2,190,471	\$ 2,131,845	\$ 2,122,079	\$ 2,065,283
Interest	14,274,714	13,155,332	12,531,082	12,014,739
Changes of benefit terms	-	-	-	-
Differences between expected and actual experience	589,478	-	1,957,220	-
Changes of assumptions	-	-	3,199,639	-
Benefit payments	(8,177,754)	(7,118,082)	(7,269,810)	(6,003,967)
	<u>8,876,909</u>	<u>8,169,095</u>	<u>12,540,210</u>	<u>8,076,055</u>
Net change in total OPEB liability	8,876,909	8,169,095	12,540,210	8,076,055
Total OPEB liability, beginning	204,431,998	196,262,903	183,722,693	175,646,638
Total OPEB liability, ending (a)	<u>\$ 213,308,907</u>	<u>\$ 204,431,998</u>	<u>\$ 196,262,903</u>	<u>\$ 183,722,693</u>
Plan fiduciary net position				
Contributions – members	\$ -	\$ -	\$ -	\$ -
Contributions – employers	9,310,849	7,756,442	7,638,453	6,921,228
Investment income	4,885,544	6,418,113	7,804,839	9,885,897
Benefits paid	(8,177,754)	(7,118,082)	(7,269,810)	(6,003,967)
Administrative expenses	(1,018,932)	(726,320)	(769,717)	(1,335,745)
Other	-	-	-	-
	<u>4,999,707</u>	<u>6,330,153</u>	<u>7,403,765</u>	<u>9,467,413</u>
Net change in fiduciary net position	4,999,707	6,330,153	7,403,765	9,467,413
Plan fiduciary net position, beginning	100,616,782	94,286,629	86,882,864	77,415,451
Plan fiduciary net position, ending (b)	<u>\$ 105,616,489</u>	<u>\$ 100,616,782</u>	<u>\$ 94,286,629</u>	<u>\$ 86,882,864</u>
Plan's net OPEB liability, ending (a)-(b)	<u>\$ 107,692,418</u>	<u>\$ 103,815,216</u>	<u>\$ 101,976,274</u>	<u>\$ 96,839,829</u>
Plan fiduciary net position as a percentage of the total OPEB liability	49.51%	49.22%	48.04%	47.29%
Covered payroll	\$ 1,484,372,700	\$ 1,380,619,384	\$ 1,343,668,500	\$ 1,277,009,000
Plan net OPEB liability as a percentage of covered payroll	7.26%	7.52%	7.59%	7.58%

See notes to historical pension and OPEB information.

*This information will be presented each year until 10 years of such information is available.

See accompanying independent auditor's report.

Required Supplementary Information

Schedule of Historical OPEB Information
 PLD Consolidated Plan
 June 30, 2020 (Unaudited)

Schedule of Changes in the Plan's Net OPEB Liability and Related Ratios
 Last Ten Fiscal Years*

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Total OPEB liability				
Service cost	\$ 522,353	\$ 488,545	\$ 442,863	\$ 619,735
Interest	1,941,994	1,832,881	1,706,200	1,616,253
Changes of benefit terms	(636,731)	-	-	-
Differences between expected and actual experience	727,053	-	2,045,678	-
Changes of assumptions	(9,045,090)	893,851	1,554,074	(5,591,242)
Benefit payments	(1,589,460)	(1,581,540)	(1,530,346)	(1,394,586)
Net change in total OPEB liability	(8,079,881)	1,633,737	4,218,469	(4,749,840)
Total OPEB liability, beginning	37,656,642	36,022,905	31,804,436	36,554,276
Total OPEB liability, ending (a)	<u>\$ 29,576,761</u>	<u>\$ 37,656,642</u>	<u>\$ 36,022,905</u>	<u>\$ 31,804,436</u>
Plan fiduciary net position				
Contributions – members	\$ -	\$ -	\$ -	\$ -
Contributions – employers	1,127,014	1,100,509	1,069,640	1,037,124
Investment income	752,517	1,037,784	1,333,324	1,738,914
Benefits paid	(1,589,460)	(1,581,540)	(1,530,346)	(1,394,586)
Administrative expenses	(164,654)	(119,519)	(133,624)	(238,856)
Other	-	-	-	-
Net change in fiduciary net position	125,417	437,234	738,994	1,142,596
Plan fiduciary net position, beginning	16,259,162	15,821,928	15,082,934	13,940,338
Plan fiduciary net position, ending (b)	<u>\$ 16,384,579</u>	<u>\$ 16,259,162</u>	<u>\$ 15,821,928</u>	<u>\$ 15,082,934</u>
Plan's net OPEB liability, ending (a)-(b)	<u>\$ 13,192,182</u>	<u>\$ 21,397,480</u>	<u>\$ 20,200,977</u>	<u>\$ 16,721,502</u>
Plan fiduciary net position as a percentage of the total OPEB liability	55.40%	43.18%	43.92%	47.42%
Covered payroll	\$ 291,745,500	\$ 283,884,893	\$ 276,287,000	\$ 260,552,680
Plan net OPEB liability as a percentage of covered payroll	4.52%	7.54%	7.31%	6.42%

See notes to historical pension and OPEB information.

*This information will be presented each year until 10 years of such information is available.

See accompanying independent auditor's report.

Required Supplementary Information

Schedule of Historical OPEB Information
State Employee and Teacher Plan
June 30, 2020 (Unaudited)

Schedule of Employer Contributions
Last Ten Fiscal Years*

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Actuarially determined contribution	\$ 10,671,443	\$ 9,040,284	\$ 8,805,704	\$ 8,239,903
Contributions in relation to the actuarially determined contribution	<u>9,310,849</u>	<u>7,756,442</u>	<u>7,638,453</u>	<u>6,921,228</u>
Contribution deficiency	<u>\$ 1,360,594</u>	<u>\$ 1,283,842</u>	<u>\$ 1,167,251</u>	<u>\$ 1,318,675</u>
Covered payroll	\$ 1,484,372,700	\$ 1,380,619,384	\$ 1,343,668,500	\$ 1,277,009,000
Contributions as a percentage of covered payroll	0.63%	0.56%	0.57%	0.54%

See notes to historical pension and OPEB information.

*This information will be presented each year until 10 years of such information is available.

See accompanying independent auditor's report.

Required Supplementary Information

Schedule of Historical OPEB Information
PLD Plan
June 30, 2020 (Unaudited)

Schedule of Employer Contributions
Last Ten Fiscal Years*

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Actuarially determined contribution	\$ 1,544,340	\$ 1,287,098	\$ 1,252,650	\$ 1,146,324
Contributions in relation to the actuarially determined contribution	<u>1,127,014</u>	<u>1,100,509</u>	<u>1,069,640</u>	<u>1,037,124</u>
Contribution deficiency	<u>\$ 417,326</u>	<u>\$ 186,589</u>	<u>\$ 183,010</u>	<u>\$ 109,200</u>
Covered payroll	\$ 291,745,500	\$ 283,884,893	\$ 276,287,000	\$ 260,552,680
Contributions as a percentage of covered payroll	0.39%	0.39%	0.39%	0.40%

See notes to historical pension and OPEB information.

*This information will be presented each year until 10 years of such information is available.

See accompanying independent auditor's report.

Required Supplementary Information

Schedule of Historical OPEB Information
All OPEB Plans
June 30, 2020 (Unaudited)

Schedule of Investment Returns
Last Ten Fiscal Years*

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Annual money-weighted rate of return, net of investment expenses	6.0%	6.6%	9.00%	12.88%

See notes to historical pension and OPEB information.

* Retroactive information is not required to be presented. This information will be presented each year until 10 years of such information is available.

See accompanying independent auditor's report.

Notes to Historical Pension and OPEB Information June 30, 2020 (Unaudited)

1. Basis of Presentation

The schedule of investment returns for pension plans applies to the State Employee and Teacher Plan, the Judicial Plan, the Legislative Plan, the PLD Consolidated Plan, and the PLD Agent Plans, as investments of these plans are commingled. Assets in the Group Life Insurance Plans, including assets to provide life insurance benefits to active employees, are commingled for investment purposes but separately from the pension plan assets.

2. Actuarial Methods and Assumptions – Defined Benefit Plans

The information in the historical pension information was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation date, June 30, 2020, is as follows:

Actuarial Cost Method

The Entry Age Normal actuarial funding method is used to determine costs. Under this funding method, the total employer contribution rate consists of two elements, the normal cost rate and the unfunded actuarial liability rate.

The individual entry age normal method is used to determine liabilities. Under the individual entry age normal method, a normal cost rate is calculated for each employee. This rate is determined by taking the value, as of age at entry into the plan, of the member's projected future benefits, and dividing it by the value, also as of the member's entry age, of his expected future salary. The normal cost for each employee is the product of his pay and his normal cost rate. The normal cost for the group is the sum of the normal costs for all members.

Experience gains and losses, i.e., decreases or increases in liabilities and/or in assets when actual experience differs from the actuarial assumptions, affect the unfunded actuarial accrued liability.

Asset Valuation Method

An actuarial value of assets is used for determining employer contributions. The use of an actuarial value of assets for this purpose helps mitigate volatility in contribution rates that might otherwise occur due to fluctuations in market conditions. The specific technique adopted in this valuation recognizes in a given year one-third of the investment return that is different from the actuarial assumption for investment return.

Amortization

The net pension liability of the State Employee and Teacher Retirement Program is amortized on a level percentage of payroll over the amortization period then in effect under statutory and constitutional requirements (Note 6 to the Financial Statements). The net pension liabilities of the Legislative Plan and the Judicial Plan are amortized on a level percentage of payroll over open ten year periods.

The net pension liability of the PLD Consolidated Plan is amortized on a level percentage of payroll using a method where a separate twenty-year closed period is established annually for the gain or loss for that year.

Significant actuarial assumptions employed by the actuary for funding purposes as of June 30 for each year indicated are as follows:

Notes to Historical Pension and OPEB Information
June 30, 2020 (Unaudited)

	State Employee and Teacher Plan	Judicial Plan	Legislative Plan	PLD Consolidated Plan
Investment Rate of Return	Per annum, compounded annually: 6.75% for June 30, 2020, June 30, 2019 and June 30, 2018; 6.875% for June 30, 2017 and June 30, 2016; 7.125% for June 30, 2015 and June 30, 2014			Per annum, compounded annually: 6.75% for June 30, 2020, June 30, 2019 and June 30, 2018; 6.875% for June 30, 2017 and June 30, 2016; 7.125% for June 30, 2015; 7.25% for June 30, 2014
Inflation Rate	2.75% for June 30, 2020, June 30, 2019, June 30, 2018, June 30, 2017, and June 30, 2016; 3.50% for June 30, 2015 and June 30, 2014			
Annual Salary Increases, including Inflation	For the periods ended June 30, 2020; June 30, 2019; June 30, 2018; June 30, 2017; and June 30, 2016:			
	State employees, 2.75% – 8.75%; Teachers, 2.75% – 14.50%	2.75%	2.75%	2.75% – 9.00%
	For the periods ended June 30, 2015 and June 30, 2014:			
	State employees, 3.50% – 10.50%; Teachers, 3.50% – 13.50%	3.50%	3.50%	3.50% – 9.50%
Cost of Living Benefit Increases	2.20% for June 30, 2020, June 30, 2019, June 30, 2018, June 30, 2017 and June 30, 2016; 2.55% for June 30, 2015 and June 30, 2014			1.91% for June 30, 2020, June 30, 2019 and June 30, 2018; 2.20% for June 30, 2017 and June 30, 2016; 2.55% for June 30, 2015 and 3.12% for June 30, 2014
Mortality Rates	For the periods ended June 30, 2020; June 30, 2019; June 30, 2018; June 30, 2017; and June 30, 2016:			
	For active members and non-disabled retirees of the State employees and teachers, legislative, judicial, and PLD plans, the RP2014 Total Dataset Healthy Annuitant Mortality Table, for males and females, is used. For all recipients of disability benefits, the RP2014 Total Dataset Disabled Annuitant Mortality Table, for males and females, is used.			
	For the periods ended June 30, 2015 and June 30, 2014:			
	For active members and non-disabled retirees of the State employees and teachers, legislative, judicial, and PLD plans, the RP2000 Tables projected forward to 2015 using Scale AA are used; the ages are set back two years for employees of the teacher plan. Mortality assumptions were also reviewed and updated in 2011 for the PLD Consolidated Plan, and in 2012 for the other Plans, based on actual demographic data of the Plans. For all recipients of disability benefits, the Revenue Ruling 96-7 Disabled Mortality Table for Males and Females is used.			

3. Actuarial Methods and Assumptions – Group Life Insurance Plans

The information in the historical Group Life Insurance Plan information was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation date, June 30, 2020, is as follows:

Actuarial Cost Method

The individual entry age normal method is used to determine liabilities. Under the individual entry age normal method, a normal cost rate is calculated for each employee. This rate is determined by taking the value, as of age at entry into the plan, of the member’s projected future benefits, and dividing it by the value, also as of the member’s entry age, of his expected future salary. The normal cost for each employee is the product of his pay and his normal cost rate. The normal cost for the group is the sum of the normal costs for all members.

Notes to Historical Pension and OPEB Information June 30, 2020 (Unaudited)

The actuarial accrued liability is defined as the present value of future benefits less the present value of future normal cost contributions. The unfunded actuarial accrued liability is the total of the actuarial liability for all members less the actuarial value of the System's assets.

Experience gains and losses, i.e., decreases or increases in liabilities and/or in assets when actual experience differs from the actuarial assumptions, affect the unfunded actuarial accrued liability.

Asset Valuation Method

Asset amounts are taken as reported to the actuaries by the System without audit or change, except that State of Maine assets are allocated to State, Legislators, and Judges based on total actuarial liability.

Amortization

The unfunded actuarial accrued liability is being amortized as a level percentage of payroll over a 30-year period on a closed basis. As of June 30, 2020, there were 17 years remaining in the amortization schedule for state employees and teachers, and 10 years remaining for PLD employees.

Significant actuarial assumptions employed by the actuary for funding purposes as of June 30 for each year indicated are as follows:

	State employees, including judges and legislators	Teachers	PLD employees
Investment Rate of Return	Per annum, compounded annually:		
	6.75% for June 30, 2020, June 30, 2019 and June 30, 2018; 6.875% for June 30, 2017		6.75% for June 30, 2020; 4.98% for June 30, 2019; 5.13% for June 30, 2018; 5.41% for June 30, 2017
Inflation Rate	2.75% for June 30, 2020, June 30, 2019, June 30, 2018 and June 30, 2017		
Annual Salary Increases, including Inflation	For June 30, 2020, June 30, 2019, June 30, 2018 and June 30, 2017		
	2.75% – 8.75%	2.75% – 14.50%	2.75% – 9.00%
Mortality Rates	For June 30, 2020, June 30, 2019, June 30, 2018 and June 30, 2017		
	For active members and non-disabled retirees of the State employees, legislative, judicial, and PLD plans, the RP2014 Total Dataset Healthy Annuitant Mortality Table, for males and females, is used. For all recipients of disability benefits, the RP2014 Total Dataset Disabled Annuitant Mortality Table, for males and females, is used.		
Participation Rate for Future Retirees	100% of those currently enrolled		
Conversion Charges	Apply to the cost of active group life insurance, not retiree group life insurance		
Form of Benefit Payment	Lump sum		

Additional Supplementary Information
Schedule of Investment Expenses
For the Year Ended June 30, 2020

	State Employee and Teacher Plan	Judicial Plan	Legislative Plan	PLD Consolidated Plan	PLD Agent Plan
Alternative Credit					
Angelo Gordon Direct Lending III	\$ 726,368	\$ 4,454	\$ 804	\$ 179,691	\$ 1,634
Ares Capital Europe IV	452,627	2,776	501	111,972	1,018
Audax Senior Debt	1,736,718	10,650	1,922	429,635	3,907
Mesa West Core	658,614	4,039	729	162,930	1,482
Owl Rock	1,784,941	10,946	1,975	441,565	4,016
TCP Direct Lending VIII	938,326	5,754	1,038	232,126	2,111
Infrastructure					
Alinda Infrastructure	111,033	681	123	27,468	250
ArcLight V	382,849	2,348	424	94,710	861
ArcLight VI	1,202,793	7,376	1,331	297,551	2,706
Brookfield Infrastructure II	835,067	5,121	924	206,582	1,879
Brookfield Infrastructure III	1,003,868	6,156	1,111	248,341	2,259
Carlyle Global Infrastructure	3,106,217	19,048	3,437	768,427	6,989
Carlyle Power Partners II	557,705	3,420	617	137,967	1,255
Cube Infrastructure	148,636	911	164	36,770	334
Cube Infrastructure II	828,253	5,079	916	204,896	1,864
EQT III	850,732	5,217	941	210,457	1,914
EQT IV	1,312,782	8,050	1,453	324,761	2,954
GIP Gas Natural Co-Invest	200,925	1,232	222	49,705	452
Global Infrastructure I	58,830	361	65	14,553	132
Global Infrastructure II	729,966	4,476	808	180,582	1,642
Global Infrastructure III	1,939,338	11,893	2,146	479,760	4,363
Global Infrastructure IV	1,939,338	11,893	2,146	479,760	4,363
GIP Stetson Co-Invest	198,906	1,220	220	49,206	448
Global Energy & Power Infrastructure I	234,782	1,440	260	58,081	528
Global Energy & Power Infrastructure II	807,032	4,949	893	199,646	1,816
IFM Global Infrastructure	982,171	6,023	1,087	242,973	2,210
KKR Infrastructure	337,699	2,071	374	83,541	760
KKR Infrastructure II	1,423,073	8,727	1,575	352,045	3,202
KKR Infrastructure III	1,212,487	7,435	1,342	299,949	2,728
Meridiam Europe I	39,179	240	43	9,692	88
Meridiam Europe II	145,088	890	161	35,892	326
Meridiam Europe III	901,748	5,530	998	223,078	2,029
Meridiam NA II	429,058	2,631	475	106,142	965
Meridiam NA II Secondary	114,415	702	127	28,305	257
Meridiam NA III	477,376	2,927	528	118,095	1,074
Stonepeak II	1,149,619	7,050	1,272	284,397	2,587
Stonepeak III	1,730,025	10,609	1,914	427,980	3,892
Natural Resources					
Agriculture Cultural Management II	487,322	2,988	539	120,555	1,096
ACM Permanent Crops	435,111	2,668	481	107,639	979

Additional Supplementary Information
 Schedule of Investment Expenses
 For the Year Ended June 30, 2020

Group Life Insurance Plan Active	Group Life Insurance Plan Retired SET	Group Life Insurance Plan Retired PLD	Defined Contribution Plans	MainePERS OPEB Trust	Retiree Health Insurance Plan	Total
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 912,951
-	-	-	-	-	-	568,894
-	-	-	-	-	-	2,182,832
-	-	-	-	-	-	827,794
-	-	-	-	-	-	2,243,443
-	-	-	-	-	-	1,179,355
-	-	-	-	-	-	139,555
-	-	-	-	-	-	481,192
-	-	-	-	-	-	1,511,757
-	-	-	-	-	-	1,049,573
-	-	-	-	-	-	1,261,735
-	-	-	-	-	-	3,904,118
-	-	-	-	-	-	700,964
-	-	-	-	-	-	186,815
-	-	-	-	-	-	1,041,008
-	-	-	-	-	-	1,069,261
-	-	-	-	-	-	1,650,000
-	-	-	-	-	-	252,536
-	-	-	-	-	-	73,941
-	-	-	-	-	-	917,474
-	-	-	-	-	-	2,437,500
-	-	-	-	-	-	2,437,500
-	-	-	-	-	-	250,000
-	-	-	-	-	-	295,091
-	-	-	-	-	-	1,014,336
-	-	-	-	-	-	1,234,464
-	-	-	-	-	-	424,445
-	-	-	-	-	-	1,788,622
-	-	-	-	-	-	1,523,941
-	-	-	-	-	-	49,242
-	-	-	-	-	-	182,357
-	-	-	-	-	-	1,133,383
-	-	-	-	-	-	539,271
-	-	-	-	-	-	143,806
-	-	-	-	-	-	600,000
-	-	-	-	-	-	1,444,925
-	-	-	-	-	-	2,174,420
-	-	-	-	-	-	612,500
-	-	-	-	-	-	546,878

Additional Supplementary Information
 Schedule of Investment Expenses (Continued)
 For the Year Ended June 30, 2020

	State Employee and Teacher Plan	Judicial Plan	Legislative Plan	PLD Consolidated Plan	PLD Agent Plan
Natural Resources (concluded)					
Amerra III	\$ 361,819	\$ 2,219	\$ 400	\$ 89,508	\$ 814
Denham Mining	501,243	3,074	555	124,000	1,128
Homestead Farmland II	375,087	2,300	415	92,790	844
Homestead Farmland III	354,475	2,174	392	87,691	798
IFC Canally	61,617	378	68	15,243	139
IFC US Farming	1,193,117	7,317	1,320	295,157	2,684
Orion II	656,392	4,025	726	162,380	1,477
Silver Creek Aggregates	68,653	421	76	16,984	154
Taurus Annex	125,392	769	139	31,020	282
Taurus Mining	282,803	1,734	313	69,961	636
Taurus Mining II	897,539	5,504	993	222,036	2,019
Twin Creeks	268,435	1,646	297	66,406	604
Domestic Equity					
Blackrock Extended Equity	-	-	-	-	-
International Equity					
Blackrock ACWI EX_US	469,500	2,879	520	116,146	1,056
Fixed Income					
Blackrock Custom Fixed Income	172,952	1,061	191	42,785	389
Blackrock US Debt Index Fund B	-	-	-	-	-
Private Equity					
ABRY ASF II	45,277	278	50	11,201	102
ABRY ASF III	477,376	2,927	528	118,095	1,074
ABRY Heritage	154,981	950	171	38,340	349
ABRY SE IV	47,078	289	52	11,647	106
ABRY SE V	143,809	882	159	35,576	324
ABRY Partners VII	26,527	163	29	6,563	60
ABRY Partners VIII	113,453	696	126	28,066	255
Advent GPE IX	645,899	3,961	715	159,785	1,453
Advent GPE VII	181,437	1,113	201	44,885	408
Advent GPE VIII	506,796	3,108	561	125,373	1,140
Advent LAPEF VI	318,250	1,952	352	78,730	716
Affinity Asia Pacific IV	419,986	2,575	465	103,898	945
Affinity Asia Pacific V	556,939	3,415	616	137,777	1,253
Berkshire IX	795,626	4,879	880	196,825	1,790
Berkshire VIII	128,046	785	142	31,676	288
Blackstone Capital Partners VI	87,908	539	97	21,747	198
Blackstone Capital Partners VII	605,292	3,712	670	149,739	1,362
Carlyle Asia Partners III	13,733	84	15	3,397	31
Carlyle Asia Partners IV	410,667	2,518	454	101,592	924

Additional Supplementary Information
 Schedule of Investment Expenses (Continued)
 For the Year Ended June 30, 2020

Group Life Insurance Plan Active	Group Life Insurance Plan Retired SET	Group Life Insurance Plan Retired PLD	Defined Contribution Plans	MainePERS OPEB Trust	Retiree Health Insurance Plan	Total
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 454,760
-	-	-	-	-	-	630,000
-	-	-	-	-	-	471,436
-	-	-	-	-	-	445,530
-	-	-	-	-	-	77,445
-	-	-	-	-	-	1,499,595
-	-	-	-	-	-	825,000
-	-	-	-	-	-	86,288
-	-	-	-	-	-	157,602
-	-	-	-	-	-	355,447
-	-	-	-	-	-	1,128,091
-	-	-	-	-	-	337,388
653	4,729	747	-	640	12,860	19,629
1,070	7,756	1,226	-	1,053	21,327	622,533
-	-	-	-	-	-	217,378
2,088	15,137	2,392	-	1,997	41,356	62,970
-	-	-	-	-	-	56,908
-	-	-	-	-	-	600,000
-	-	-	-	-	-	194,791
-	-	-	-	-	-	59,172
-	-	-	-	-	-	180,750
-	-	-	-	-	-	33,342
-	-	-	-	-	-	142,596
-	-	-	-	-	-	811,813
-	-	-	-	-	-	228,044
-	-	-	-	-	-	636,978
-	-	-	-	-	-	400,000
-	-	-	-	-	-	527,869
-	-	-	-	-	-	700,000
-	-	-	-	-	-	1,000,000
-	-	-	-	-	-	160,937
-	-	-	-	-	-	110,489
-	-	-	-	-	-	760,775
-	-	-	-	-	-	17,260
-	-	-	-	-	-	516,155

Additional Supplementary Information
Schedule of Investment Expenses (Continued)
For the Year Ended June 30, 2020

	State Employee and Teacher Plan	Judicial Plan	Legislative Plan	PLD Consolidated Plan	PLD Agent Plan
Private Equity (Continued)					
Carlyle Asia Partners V	\$ 519,146	\$ 3,184	\$ 574	\$ 128,428	\$ 1,168
Centerbridge III	359,012	2,202	397	88,814	808
Charterhouse X	791,816	4,856	876	195,883	1,782
CVC Capital VI	434,527	2,665	481	107,495	978
CVC Capital VII	556,742	3,414	616	137,729	1,253
Encap Energy IX	243,554	1,494	270	60,252	548
Encap Energy VIII	117,268	719	130	29,010	264
Encap Energy X	342,527	2,100	379	84,735	771
Encap Energy XI	477,376	2,927	528	118,095	1,074
EnCap Flatrock Midstream III	188,774	1,158	209	46,700	425
EnCap Flatrock Midstream IV	262,556	1,610	291	64,952	591
General Catalyst X – Early Venture	101,354	622	112	25,073	228
General Catalyst X – Endurance	60,537	371	67	14,976	136
General Catalyst X – Growth Equity	133,483	819	148	33,022	300
GTCR X	159,243	977	176	39,394	358
GTCR XI	417,704	2,561	462	103,333	940
GTCR XII	619,439	3,799	685	153,239	1,394
Hellman & Friedman PE IX	324,422	1,989	359	80,257	730
Hellman & Friedman PE VII	43,193	265	48	10,685	97
Hellman & Friedman PE VIII	244,416	1,499	270	60,464	550
HIG Bayside III Europe	227,657	1,396	252	56,318	512
HIG Brazil	1,193,438	7,319	1,321	295,237	2,685
HIG Buyouts II	214,177	1,313	237	52,984	482
HIG Buyouts III	556,939	3,415	616	137,777	1,253
HIG Capital V	154,956	950	171	38,334	349
HIG Europe II	431,535	2,646	478	106,755	971
HIG Middle Market LBO II	636,501	3,903	704	157,460	1,432
HIG Middle Market LBO III	598,358	3,669	662	148,024	1,346
Inflexion Buyout IV	337,586	2,070	374	83,514	760
Inflexion Capital I	182,705	1,120	202	45,198	411
Inflexion Supplemental IV	122,121	749	135	30,211	275
Kelso IX	287,967	1,766	319	71,239	648
Kelso X	565,006	3,465	625	139,773	1,271
KKR Americas XII	637,666	3,910	706	157,748	1,435
KKR North America XI	240,553	1,475	266	59,509	541
KKR Special Situations I	459,270	2,816	508	113,616	1,033
KKR Special Situations II	568,061	3,484	629	140,529	1,278
Oaktree PE	24,819	152	27	6,140	56
Onex ONCAP IV	218,797	1,342	242	54,127	492
Onex Partners III	25,562	157	28	6,324	58
Onex Partners IV	463,586	2,843	513	114,683	1,043
Onex Partners V	577,814	3,543	639	142,942	1,300
Paine & Partners IV	954,751	5,855	1,056	236,190	2,148

Additional Supplementary Information
 Schedule of Investment Expenses (Continued)
 For the Year Ended June 30, 2020

Group Life Insurance Plan Active	Group Life Insurance Plan Retired SET	Group Life Insurance Plan Retired PLD	Defined Contribution Plans	MainePERS OPEB Trust	Retiree Health Insurance Plan	Total
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 652,500
-	-	-	-	-	-	451,233
-	-	-	-	-	-	995,213
-	-	-	-	-	-	546,146
-	-	-	-	-	-	699,754
-	-	-	-	-	-	306,118
-	-	-	-	-	-	147,391
-	-	-	-	-	-	430,512
-	-	-	-	-	-	600,000
-	-	-	-	-	-	237,266
-	-	-	-	-	-	330,000
-	-	-	-	-	-	127,389
-	-	-	-	-	-	76,087
-	-	-	-	-	-	167,772
-	-	-	-	-	-	200,148
-	-	-	-	-	-	525,000
-	-	-	-	-	-	778,556
-	-	-	-	-	-	407,757
-	-	-	-	-	-	54,288
-	-	-	-	-	-	307,199
-	-	-	-	-	-	286,135
-	-	-	-	-	-	1,500,000
-	-	-	-	-	-	269,193
-	-	-	-	-	-	700,000
-	-	-	-	-	-	194,760
-	-	-	-	-	-	542,385
-	-	-	-	-	-	800,000
-	-	-	-	-	-	752,059
-	-	-	-	-	-	424,304
-	-	-	-	-	-	229,636
-	-	-	-	-	-	153,491
-	-	-	-	-	-	361,939
-	-	-	-	-	-	710,140
-	-	-	-	-	-	801,465
-	-	-	-	-	-	302,344
-	-	-	-	-	-	577,243
-	-	-	-	-	-	713,981
-	-	-	-	-	-	31,194
-	-	-	-	-	-	275,000
-	-	-	-	-	-	32,129
-	-	-	-	-	-	582,668
-	-	-	-	-	-	726,238
-	-	-	-	-	-	1,200,000

Additional Supplementary Information
 Schedule of Investment Expenses (Continued)
 For the Year Ended June 30, 2020

	State Employee and Teacher Plan	Judicial Plan	Legislative Plan	PLD Consolidated Plan	PLD Agent Plan
Private Equity (concluded)					
Paine & Partners V	\$ 618,188	\$ 3,791	\$ 684	\$ 152,929	\$ 1,391
Rhone V	882,142	5,410	976	218,227	1,985
Riverside Capital Appreciation VI	528,763	3,243	585	130,807	1,190
Riverside Micro-Cap III	533,800	3,273	591	132,053	1,201
Riverside Micro-Cap IV	729,315	4,472	807	180,421	1,641
Riverside Micro-Cap V	636,501	3,903	704	157,460	1,432
Shoreview Capital III	385,083	2,361	427	95,263	866
Shoreview Capital IV	148,336	910	164	36,696	334
Sovereign Capital	899,217	5,514	995	222,452	2,023
Summit Credit II	451,601	2,769	500	111,719	1,016
Summit GE IX	705,699	4,328	781	174,579	1,588
Summit GE V111	230,787	1,415	256	57,093	519
Summit GE X	328,196	2,013	363	81,190	738
Summit VC III	121,247	744	134	29,995	273
Summit VC IV	509,200	3,123	563	125,968	1,146
TCV IX	954,751	5,855	1,056	236,190	2,148
TCV VIII	835,407	5,123	924	206,666	1,880
TCV X	388,101	2,380	430	96,010	873
Technology Impact Fund I	436,634	2,678	483	108,016	982
Technology Impact Growth Fund I	278,468	1,708	308	68,889	627
Thoma Bravo Special Opp II	101,808	624	113	25,186	229
Thoma Bravo XI	593,508	3,640	657	146,824	1,335
Thoma Bravo XII	648,149	3,975	717	160,342	1,458
Thoma Bravo XIII	537,047	3,293	595	132,857	1,208
Tillridge II	796,723	4,886	882	197,096	1,793
Water Street Healthcare III	215,428	1,321	238	53,293	485
Water Street Healthcare IV	525,113	3,220	582	129,904	1,181
Wayzata OPP III	79,800	489	88	19,741	180
Wynnchurch IV	636,501	3,903	704	157,460	1,432
Wynnchurch V	138,238	848	153	34,198	311
Real Estate					
Blackrock US RE Securities Fund B	-	-	-	-	-
Barings Private Equity Asia II	696,172	4,269	771	172,222	1,566
Blackstone Property Partners	2,452,047	15,037	2,713	606,596	5,517
BREP IX	354,053	2,171	392	87,587	797
BREP VII	303,746	1,863	336	75,142	683
BREP VIII	424,694	2,604	470	105,062	956
EQT Real Estate	1,004,200	6,158	1,111	248,423	2,259
H/2 Credit Partners	107,412	659	119	26,572	242
Harrison Street Real Estate	698,290	4,282	773	172,745	1,571
High Street V	235,375	1,443	260	58,228	530
High Street VI	239,681	1,470	266	59,293	539

Additional Supplementary Information
 Schedule of Investment Expenses (Continued)
 For the Year Ended June 30, 2020

Group Life Insurance Plan Active	Group Life Insurance Plan Retired SET	Group Life Insurance Plan Retired PLD	Defined Contribution Plans	MainePERS OPEB Trust	Retiree Health Insurance Plan	Total
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 776,983
-	-	-	-	-	-	1,108,740
-	-	-	-	-	-	664,588
-	-	-	-	-	-	670,918
-	-	-	-	-	-	916,656
-	-	-	-	-	-	800,000
-	-	-	-	-	-	484,000
-	-	-	-	-	-	186,440
-	-	-	-	-	-	1,130,201
-	-	-	-	-	-	567,605
-	-	-	-	-	-	886,975
-	-	-	-	-	-	290,070
-	-	-	-	-	-	412,500
-	-	-	-	-	-	152,393
-	-	-	-	-	-	640,000
-	-	-	-	-	-	1,200,000
-	-	-	-	-	-	1,050,000
-	-	-	-	-	-	487,794
-	-	-	-	-	-	548,793
-	-	-	-	-	-	350,000
-	-	-	-	-	-	127,960
-	-	-	-	-	-	745,964
-	-	-	-	-	-	814,641
-	-	-	-	-	-	675,000
-	-	-	-	-	-	1,001,380
-	-	-	-	-	-	270,765
-	-	-	-	-	-	660,000
-	-	-	-	-	-	100,298
-	-	-	-	-	-	800,000
-	-	-	-	-	-	173,748
631	4,574	723	-	665	12,731	19,324
-	-	-	-	-	-	875,000
-	-	-	-	-	-	3,081,910
-	-	-	-	-	-	445,000
-	-	-	-	-	-	381,770
-	-	-	-	-	-	533,786
-	-	-	-	-	-	1,262,151
-	-	-	-	-	-	135,004
-	-	-	-	-	-	877,661
-	-	-	-	-	-	295,836
-	-	-	-	-	-	301,249

Additional Supplementary Information
 Schedule of Investment Expenses (Concluded)
 For the Year Ended June 30, 2020

	State Employee and Teacher Plan	Judicial Plan	Legislative Plan	PLD Consolidated Plan	PLD Agent Plan
Real Estate (concluded)					
Invesco Real Estate Asia IV	\$ 268,135	\$ 1,644	\$ 297	\$ 66,332	\$ 603
Invesco US Income	1,274,666	7,817	1,410	315,332	2,868
IronPoint Data Centers	358,031	2,196	396	88,571	806
KKR REPA I	142,396	873	158	35,227	320
KKR REPA II	566,147	3,472	626	140,055	1,274
KKR REPE	501,287	3,074	555	124,010	1,128
Northbridge	310,620	1,905	344	76,843	699
PMIT	195,227	1,197	216	48,296	439
Prudential Senior Housing V	324,229	1,988	359	80,209	729
Rubenstein III	301,072	1,846	334	74,480	677
Smart Markets	938,363	5,754	1,038	232,137	2,111
Walton Street Co-Invest	50,147	308	55	12,406	113
Walton Street Real Estate VII	329,946	2,023	365	81,624	742
Walton Street Real Estate VIII	436,408	2,676	483	107,960	982
Westbrook IX	48,383	296	54	11,969	109
Westbrook X	351,029	2,153	388	86,839	790
Risk Diversifiers					
AQR Liquid Enhanced Alternative Premia	997,571	6,117	1,104	246,783	2,245
Bridgewater Pure Alpha	3,214,802	19,714	3,557	795,289	7,234
Bridgewater Pure Alpha Markets	3,141,291	19,263	3,476	777,104	7,068
FORT Global Contrarian Fund	1,543,296	9,464	1,708	381,786	3,472
Windham Capital	1,177,267	7,219	1,303	291,236	2,649
Windham Risk Premia	1,024,035	6,280	1,133	253,329	2,304
Other Investment Expenses	-	-	-	-	-
In-house investment management	4,250,949	26,068	4,704	1,051,616	9,564
Total investment expenses	<u>\$ 103,290,753</u>	<u>\$ 633,412</u>	<u>\$ 114,296</u>	<u>\$ 25,552,439</u>	<u>\$ 232,397</u>

Additional Supplementary Information
 Schedule of Investment Expenses (Concluded)
 For the Year Ended June 30, 2020

Group Life Insurance Plan Active	Group Life Insurance Plan Retired SET	Group Life Insurance Plan Retired PLD	Defined Contribution Plans	MainePERS OPEB Trust	Retiree Health Insurance Plan	Total
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 337,011
-	-	-	-	-	-	1,602,093
-	-	-	-	-	-	450,000
-	-	-	-	-	-	178,974
-	-	-	-	-	-	711,574
-	-	-	-	-	-	630,054
-	-	-	-	-	-	390,411
-	-	-	-	-	-	245,375
-	-	-	-	-	-	407,514
-	-	-	-	-	-	378,409
-	-	-	-	-	-	1,179,403
-	-	-	-	-	-	63,029
-	-	-	-	-	-	414,700
-	-	-	-	-	-	548,509
-	-	-	-	-	-	60,811
-	-	-	-	-	-	441,199
-	-	-	-	-	-	1,253,820
-	-	-	-	-	-	4,040,596
-	-	-	-	-	-	3,948,202
-	-	-	-	-	-	1,939,726
-	-	-	-	-	-	1,479,674
-	-	-	-	-	-	1,287,081
-	-	-	52,496	-	-	52,496
5,049	36,591	5,782	-	4,780	-	5,395,105
<u>\$ 9,491</u>	<u>\$ 68,787</u>	<u>\$ 10,870</u>	<u>\$ 52,496</u>	<u>\$ 9,135</u>	<u>\$ 88,274</u>	<u>\$ 130,062,350</u>

Additional Supplementary Information
 Schedule of Administrative Expenses
 For the Year Ended June 30, 2020

	State Employee and Teacher Plan	Judicial Plan	Legislative Plan	PLD Consolidated Plan	PLD Agent Plan
Personal services	\$ 5,699,272	\$ 34,870	\$ 6,259	\$ 1,405,599	\$ 10,436
Professional fees	1,690,155	10,341	1,856	416,839	3,095
Computer services	1,337,767	8,185	1,469	329,931	2,450
Telephone, data, and internet services	72,161	442	79	17,797	132
Printing and postage	228,069	1,395	250	56,248	418
Office rent and building operations	271,658	1,662	298	66,998	497
Depreciation	1,367,175	8,365	1,501	337,183	2,503
Miscellaneous operating expenses	677,671	4,146	746	167,133	1,241
Total administrative expenses	<u>\$ 11,343,928</u>	<u>\$ 69,406</u>	<u>\$ 12,458</u>	<u>\$ 2,797,728</u>	<u>\$ 20,772</u>

Additional Supplementary Information
 Schedule of Professional Fees
 For the Year Ended June 30, 2020

Professional fee	
Audit	\$ 63,160
Actuarial services	372,422
IT service	955,113
Legal services	202,775
Medical consulting	422,716
Other services	<u>333,261</u>
Total professional fees	<u>\$ 2,349,447</u>

Additional Supplementary Information
 Schedule of Administrative Expenses
 For the Year Ended June 30, 2020

Group Life Insurance Plan Active	Group Life Insurance Plan Retired SET	Group Life Insurance Plan Retired PLD	Defined Contribution Plans	Retiree Health Insurance Plan	Total
\$ 69,362	\$ 511,919	\$ 82,724	\$ 101,989	\$ 3,000	\$ 7,925,430
20,570	151,813	24,533	30,245	-	2,349,447
16,281	120,161	19,417	23,939	-	1,859,600
878	6,482	1,047	1,291	-	100,309
2,776	20,486	3,310	4,081	-	317,033
3,306	24,401	3,943	4,861	-	377,624
16,639	122,802	19,844	24,466	-	1,900,478
8,247	60,868	9,836	12,128	-	942,016
<u>\$ 138,059</u>	<u>\$ 1,018,932</u>	<u>\$ 164,654</u>	<u>\$ 203,000</u>	<u>\$ 3,000</u>	<u>\$ 15,771,937</u>

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Investment Section



Portland Head Lighthouse, Cape Elizabeth



CAMBRIDGE ASSOCIATES

125 High Street | Boston, MA 02110 | 617 457 7500 | cambridgeassociates.com

December 8, 2020

Board of Trustees (the “Board”)
Maine Public Employees Retirement System
139 Capitol St
Augusta, ME 04332

RE: Maine Public Employees Retirement System (“MainePERS” or the “System”)

To the Board:

Cambridge Associates, LLC has been retained by the Board of Trustees to advise on MainePERS’ investment policy, perform quarterly reviews of performance and provide general investment advice.

It is our opinion that MainePERS’ assets are managed under detailed and well-articulated policies, appropriate to the circumstances of the System. Per the MainePERS’ Investment Policy Statement, the portfolio’s investment objectives attempt to balance the System’s twin goals of generating investment returns (to ensure growth of the trust funds) and minimizing investment risks (loss of capital and cash flow shortfalls). It is our understanding that all performance measurements and comparisons have been made using standard performance evaluation methods consistent with industry standards. It is also our opinion that the Board, Executive Director, and staff have taken appropriate measures for overseeing the management of the System’s assets and ensuring that investments have conformed with the Systems’ investment policy statement. Furthermore, based upon our interactions with the Board, we believe the Board is providing prudent oversight of MainePERS’ investments.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brian McDonnell'.

Brian McDonnell
Global Head of the Pension Practice

Investment Process Overview

MainePERS is responsible for the investment of trust fund assets consistent with Maine law and the constitution, which requires that assets be invested for the sole purpose of future benefit payments. MainePERS Trustees are responsible for setting investment policy which is then implemented by the MainePERS Investment Team. External consultants play an important role in both the formulation and implementation of investment policy.

The MainePERS investment policy specifies an asset allocation that is consistent with a targeted portfolio risk level. Potential investments are judged on their ability to provide returns consistent with the risks taken. Overall risk is mitigated using a due diligence process which considers a comprehensive range of financial risks. Among the financial risks evaluated are those that fall into the categories of Environmental, Social, and Governance (ESG) because investments that don't consider these increasingly important factors are unlikely to achieve expected returns.

Investment Activity

This section presents additional detail concerning investment activity and performance as reported by the MainePERS investment custodian. Certain assets, such as cash in the System's operating bank accounts are not considered part of the investment portfolio and are not included in this section. The investment values presented in this section are based in part on lagged values due to the delayed reporting schedule for alternative asset classes, and therefore differ from the actual June 30 values as reported in the statement of fiduciary net position. In addition, where applicable, investment values are presented on a net basis with securities lending liabilities netted against securities lending collateral. Rates of return presented in this section are as reported by the investment custodian, are time-weighted and reflect the impact of lagged values due to delayed reporting.

The table below summarizes the defined benefit portfolio values and returns for the ten years ended June 30, 2020. Assets grew by \$5.8 billion from \$8.9 billion to \$14.7 billion over this period.

Summary of Investment Activity

FY Ended June 30	Opening Market Value (\$ millions)	Closing Market Value (\$ millions)	Rate of Return
2020	\$ 14,886	\$ 14,720	1.8%
2019	\$ 14,344	\$ 14,886	7.3%
2018	\$ 13,385	\$ 14,344	10.3%
2017	\$ 12,283	\$ 13,385	12.5%
2016	\$ 12,610	\$ 12,283	0.6%
2015	\$ 12,732	\$ 12,610	2.0%
2014	\$ 11,264	\$ 12,732	16.7%
2013	\$ 10,470	\$ 11,264	11.1%
2012	\$ 10,739	\$ 10,470	0.6%
2011	\$ 8,934	\$ 10,739	22.4%
		Annualized 10-year period	8.3%
		Cumulative 10-year period	122.0%

Investment Portfolio

In this section, the investment strategy MainePERS has adopted to optimize the financial health of the plans is reviewed.

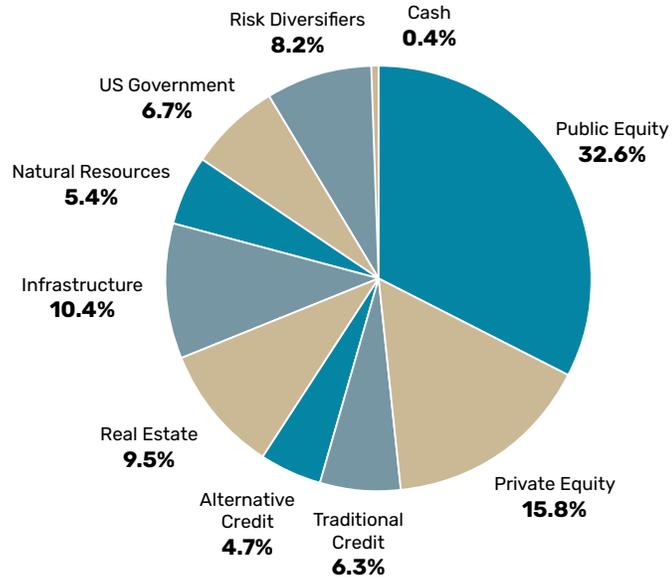
The System invests plan assets in a number of major asset classes. The table and pie charts on the following page display the actual and strategic target allocations at June 30, 2020.

The Board of Trustees is of the view that a prudent investment strategy for these plan assets involves accepting some level of investment risk. Because most of its benefit payments are not due for several decades into the future, the System has concluded it is prudent to invest a substantial portion of its assets in equities and other return-seeking investments. The Board allocates 60% to 80% of assets to equities and equity-like securities and is of the view that this provides a prudent compromise between risk and return.

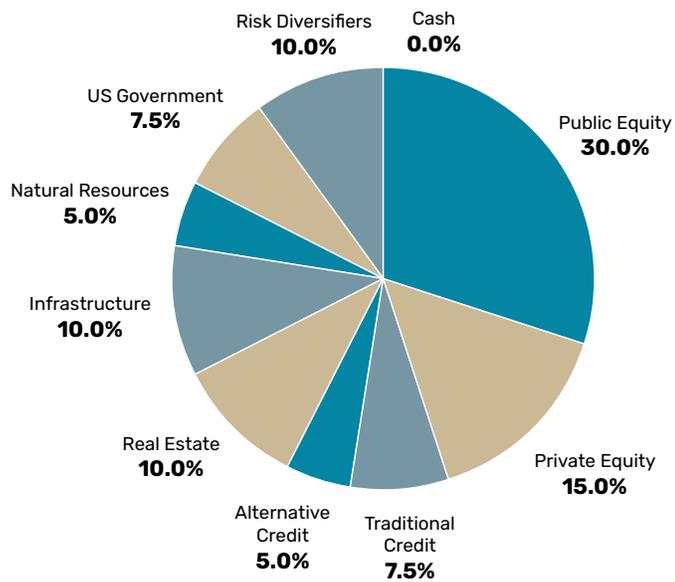
Strategic Asset Allocation

	Public Equity	Private Equity	Traditional Credit	Alternative Credit	Real Estate	Infrastructure	Natural Resources	US Government	Risk Diversifiers	Cash	Total
Actual Allocation	32.6%	15.8%	6.3%	4.7%	9.5%	10.4%	5.4%	6.7%	8.2%	0.4%	100.0%
Target Allocation	30.0%	15.0%	7.5%	5.0%	10.0%	10.0%	5.0%	7.5%	10.0%	0.0%	100.0%

Actual Allocation at June 30, 2020



Strategic Target Allocation



Strategic Asset Allocation

Essentially all of the assets of the System's plans are in portfolios managed by professional investment management firms. These managers act as fiduciaries and invest the assets allocated to them in accordance with the System's investment policies and the individual agreements between MainePERS and the investment managers.

Approximately 45% of assets were invested in passively managed index funds at June 30, 2020. The Board of Trustees views index funds as a cost-effective way of investing in most of the world's capital markets. However, the System does make use of actively managed portfolios where it has identified managers who are thought to be able to add value over an index fund, net of all costs.

The System uses a single firm to manage all of its passive investments. This enables the System to obtain attractive fees and also provides other cost savings on certain kinds of transactions. Since passively managed portfolios have a low risk of significantly underperforming their benchmarks, the Board, the investment staff, and the System's investment consultant find this concentration of assets to be appropriate.

The System typically conducts a thorough review of its strategic asset allocation every three to four years with the assistance of the System's actuary and its general investment consultant. This was last performed in fiscal year 2017.

Benefit Plans – Investment Portfolio

	at 06/30/2020		at 06/30/2019	
	millions of dollars	% of assets	millions of dollars	% of assets
Public Equity				
BlackRock	\$ 4,777	32.4%	\$ 4,579	30.7%
Black Bear Asset Management	21	0.1%	–	0.0%
Total Public Equity	\$ 4,797	32.6%	\$ 4,579	30.7%
Traditional Credit				
BlackRock	\$ 928	6.3%	\$ 1,219	8.2%
Total Traditional Credit	\$ 928	6.3%	\$ 1,219	8.2%
US Government				
BlackRock	\$ 981	6.7%	\$ 1,161	7.8%
Total US Government	\$ 981	6.7%	\$ 1,161	7.8%
Private Equity				
ABRY Advanced Securities Fund II	\$ 1	0.0%	\$ 2	0.0%
ABRY Advanced Securities Fund III	19	0.1%	20	0.1%
ABRY Senior Equity IV	3	0.0%	7	0.0%
ABRY Senior Equity V	6	0.0%	3	0.0%
ABRY Heritage	4	0.0%	4	0.0%
ABRY VII	3	0.0%	4	0.0%
ABRY VIII	12	0.1%	18	0.1%
Advent International GPE VII	17	0.1%	25	0.2%
Advent International GPE VIII	49	0.3%	49	0.3%
Advent International GPE IX	11	0.1%	–	0.0%
Advent LAPEF VI	11	0.1%	13	0.1%
Affinity Asia Pacific IV	27	0.2%	48	0.3%
Affinity Asia Pacific V	6	0.0%	8	0.1%
Berkshire VIII	10	0.1%	10	0.1%
Berkshire IX	27	0.2%	22	0.1%
Blackstone Cap VI	15	0.1%	26	0.2%
Blackstone Cap VII	50	0.3%	34	0.2%
Carlyle Asia Partners Fund III	1	0.0%	2	0.0%
Carlyle Asia Partners Fund IV	42	0.3%	55	0.4%
Carlyle Asia Partners Fund V	6	0.0%	3	0.0%
Centerbridge Capital Partners III	24	0.2%	18	0.1%
Charterhouse VIII	0	0.0%	0	0.0%
Charterhouse IX	1	0.0%	1	0.0%
Charterhouse X	39	0.3%	32	0.2%
CVC Capital Partner VI	71	0.5%	69	0.5%
CVC Capital Partner VII	23	0.2%	9	0.1%

Benefit Plans – Investment Portfolio

	at 06/30/2020		at 06/30/2019	
	millions of dollars	% of assets	millions of dollars	% of assets
EnCap Energy Capital Fund VIII	4	0.0%	10	0.1%
EnCap Energy Capital Fund IX	7	0.1%	20	0.1%
EnCap Energy Capital Fund X	23	0.2%	34	0.2%
EnCap Energy Capital Fund XI	7	0.0%	6	0.0%
EnCap Flatrock Midstream III	15	0.1%	16	0.1%
EnCap Flatrock Midstream IV	8	0.1%	7	0.0%
General Catalyst Group X – Early Venture	1	0.0%	–	0.0%
General Catalyst Group X – Growth Venture	8	0.1%	–	0.0%
GTCR X	1	0.0%	6	0.0%
GTCR XI	28	0.2%	29	0.2%
GTCR XII	22	0.2%	9	0.1%
Hellman & Friedman VII	34	0.2%	40	0.3%
Hellman & Friedman VIII	43	0.3%	47	0.3%
Hellman & Friedman IX	8	0.1%	–	0.0%
HIG Bayside Loan Opportunity II	2	0.0%	5	0.0%
HIG Bayside Loan Opportunity III (Europe)	7	0.0%	15	0.1%
HIG Brazil & Latin America	33	0.2%	24	0.2%
HIG Buyouts II	20	0.1%	29	0.2%
HIG Buyouts III	1	0.0%	0	0.0%
HIG Capital Partners V	15	0.1%	14	0.1%
HIG Europe Capital II	13	0.1%	12	0.1%
HIG Middle Market LBO Fund II	32	0.2%	35	0.2%
HIG Middle Market LBO Fund II	1	0.0%	–	0.0%
Inflexion Buyout Fund IV	27	0.2%	24	0.2%
Inflexion Supplemental Fund IV	11	0.1%	11	0.1%
Inflexion Partnership Capital Fund I	14	0.1%	14	0.1%
Kelso Investment Associates VIII	0	0.0%	1	0.0%
Kelso Investment Associates IX	40	0.3%	52	0.3%
Kelso Investment Associates X	7	0.0%	4	0.0%
KKR Americas XII	32	0.2%	25	0.2%
KKR North America XI	48	0.3%	59	0.4%
KKR Special Situations	19	0.1%	35	0.2%
KKR Special Situations II	37	0.2%	46	0.3%
Oaktree Opportunity Fund VIII	1	0.0%	1	0.0%
ONCAP IV	6	0.0%	6	0.0%
Onex Partners III	2	0.0%	4	0.0%
Onex Partners IV	32	0.2%	50	0.3%
Onex Partners V	2	0.0%	0	0.0%
Paine Schwartz Partners IV	52	0.4%	44	0.3%
Paine Schwartz Partners V	3	0.0%	–	0.0%
Rhone Partners V	41	0.3%	36	0.2%
Riverside Capital Appreciation VI	30	0.2%	53	0.4%
Riverside Micro Cap Fund III	66	0.4%	64	0.4%
Riverside Micro Cap Fund IV	65	0.4%	59	0.4%
Riverside Micro Cap Fund IV-B	7	0.0%	–	0.0%
Riverside Micro Cap Fund V	8	0.1%	2	0.0%
Shoreview Capital III	20	0.1%	20	0.1%
Shoreview Capital IV	2	0.0%	–	0.0%
Sovereign Capital IV	30	0.2%	21	0.1%
Summit Credit Partners II	41	0.3%	46	0.3%
Summit GE VIII	12	0.1%	17	0.1%
Summit GE IX	69	0.5%	47	0.3%
Summit GE X	5	0.0%	–	0.0%
Summit VC III	13	0.1%	12	0.1%
Summit VC IV	26	0.2%	15	0.1%
Technology Impact Fund	32	0.2%	10	0.1%
Technology Impact Growth Fund	20	0.1%	20	0.1%
TCV VIII	79	0.5%	67	0.4%
TCV IX	54	0.4%	45	0.3%
TCV X	16	0.1%	2	0.0%
Thoma Bravo XI	64	0.4%	77	0.5%
Thoma Bravo XII	78	0.5%	69	0.5%
Thoma Bravo XIII	34	0.2%	15	0.1%

Benefit Plans – Investment Portfolio

	at 06/30/2020		at 06/30/2019	
	millions of dollars	% of assets	millions of dollars	% of assets
Thoma Bravo Special Opportunities Fund II	17	0.1%	22	0.1%
Tillridge Global Agribusiness II	9	0.1%	7	0.0%
Water Street Healthcare III	21	0.1%	20	0.1%
Water Street Healthcare IV	11	0.1%	9	0.1%
Wayzata Opportunities III	5	0.0%	6	0.0%
Wynnchurch Capital IV	30	0.2%	28	0.2%
Wynnchurch Capital V	0	0.0%	–	0.0%
Co-Investments	277	1.9%	233	1.6%
Total Private Equity	\$ 2,325	15.8%	\$ 2,240	15.0%
Real Estate				
Angelo Gordon Net Lease IV	\$ 11	0.1%	\$ –	0.0%
Barings Real Estate Asia II	7	0.0%	5	0.0%
Blackstone Property Partners	360	2.4%	360	2.4%
Blackstone RE Partners VII	32	0.2%	44	0.3%
Blackstone RE Partners VIII	48	0.3%	42	0.3%
Blackstone RE Partners IX	10	0.1%	–	0.0%
EQT Real Estate II	11	0.1%	–	0.0%
H/2 Credit Partners	–	0.0%	54	0.4%
Harrison Street Core Property Fund	118	0.8%	114	0.8%
High Street IV	0	0.0%	0	0.0%
High Street V	27	0.2%	26	0.2%
High Street VI	8	0.1%	–	0.0%
Invesco US Income	200	1.4%	192	1.3%
Invesco Real Estate Asia IV	3	0.0%	–	0.0%
IPI Data Center Partners I	19	0.1%	19	0.1%
KKR REPA I	5	0.0%	12	0.1%
KKR REPA II	28	0.2%	17	0.1%
KKR REPE	38	0.3%	35	0.2%
Northbridge Strategic Fund II	30	0.2%	30	0.2%
Prima Advisors Mortgage Fund	82	0.6%	90	0.6%
Prudential Senior Housing V	51	0.3%	46	0.3%
Rubenstein Partners III	24	0.2%	22	0.2%
Smart Markets	198	1.3%	192	1.3%
Walton Street VII	12	0.1%	20	0.1%
Walton Street VIII	32	0.2%	33	0.2%
Westbrook IX	4	0.0%	6	0.0%
Westbrook X	28	0.2%	28	0.2%
Co-Investments	17	0.1%	6	0.0%
Total Real Estate	\$ 1,401	9.5%	\$ 1,394	9.3%
Infrastructure				
Alinda Infrastructure Fund II	\$ 14	0.1%	\$ 23	0.2%
ArcLight Energy Partners V	27	0.2%	28	0.2%
ArcLight Energy Partners VI	95	0.6%	136	0.9%
Brookfield Infrastructure Fund II	102	0.7%	107	0.7%
Brookfield Infrastructure Fund III	74	0.5%	73	0.5%
Carlyle Global Infrastructure Opportunity Fund	5	0.0%	–	0.0%
Carlyle Infrastructure Fund	1	0.0%	0	0.0%
Carlyle Power Partners II	33	0.2%	23	0.2%
Cube Infrastructure Fund	19	0.1%	19	0.1%
Cube Infrastructure Fund II	44	0.3%	28	0.2%
EQT Infrastructure Fund III	81	0.6%	73	0.5%
EQT Infrastructure Fund IV	56	0.4%	2	0.0%
Global Energy & Power Infrastructure Fund I	20	0.1%	27	0.2%
Global Energy & Power Infrastructure Fund II	62	0.4%	78	0.5%
Global Infrastructure Partners Fund	1	0.0%	11	0.1%
Global Infrastructure Partners Fund II	73	0.5%	88	0.6%
Global Infrastructure Partners Fund III	104	0.7%	121	0.8%
IFM Global Infrastructure	–	0.0%	158	1.1%
KKR Infrastructure	7	0.0%	36	0.2%
KKR Infrastructure II	107	0.7%	163	1.1%
KKR Infrastructure III	32	0.2%	11	0.1%
Meridiam Infrastructure Europe I (Secondary)	25	0.2%	26	0.2%

Benefit Plans – Investment Portfolio

	at 06/30/2020		at 06/30/2019	
	millions of dollars	% of assets	millions of dollars	% of assets
Meridiam Infrastructure Europe I Class B (Secondary)	25	0.2%	24	0.2%
Meridiam Infrastructure Europe II (Secondary)	30	0.2%	30	0.2%
Meridiam Infrastructure Europe II Class B (Secondary)	6	0.0%	5	0.0%
Meridiam Infrastructure Europe III	18	0.1%	15	0.1%
Meridiam Infrastructure North America II	82	0.6%	75	0.5%
Meridiam Infrastructure North America II (CIP)	7	0.0%	6	0.0%
Meridiam Infrastructure North America II (Secondary)	21	0.1%	19	0.1%
Meridiam Infrastructure North America III	1	0.0%	0	0.0%
Stonepeak Infrastructure II	118	0.8%	114	0.8%
Stonepeak Infrastructure III	108	0.7%	57	0.4%
Co-Investments	138	0.9%	189	1.3%
Total Infrastructure	\$ 1,535	10.4%	\$ 1,765	11.8%
Alternative Credit				
AG Direct Lending II	\$ 26	0.2%	\$ –	0.0%
AG Direct Lending III	99	0.7%	40	0.3%
AG Direct Lending IV	22	0.9%	–	0.3%
ARES Capital Europe IV	79	0.5%	40	0.3%
Audax	94	0.6%	102	0.7%
GIP Spectrum Fund	13	0.1%	–	0.0%
Mesa West Core	106	0.7%	101	0.7%
Owl Rock	98	0.7%	107	0.7%
SCP Private Corporate Lending Fund	6	0.0%	–	0.0%
Silver Point Specialty Credit II	7	0.0%	–	0.0%
TCP Direct Lending VIII	93	0.6%	90	0.6%
Co-Investments	53	0.4%	13	0.1%
Total Alternative Credit	\$ 697	4.7%	\$ 493	3.3%
Natural Resources				
ACM Fund II	\$ 24	0.2%	\$ 18	0.1%
ACM Permanent Crops	44	0.3%	40	0.3%
AMERRA Agri Fund III	41	0.3%	37	0.2%
Denham Mining Fund	11	0.1%	10	0.1%
Homestead Farmland II	35	0.2%	29	0.2%
Homestead Farmland III	3	0.0%	–	0.0%
Orion Mine Finance II	38	0.3%	27	0.2%
Silver Creek Aggregate Reserves Fund I	12	0.1%	–	0.0%
Taurus Mining Finance	26	0.2%	28	0.2%
Taurus Mining Finance Annex	12	0.1%	10	0.1%
Taurus Mining Finance II	30	0.2%	–	0.0%
Teays River	282	1.9%	288	1.9%
Twin Creeks Timber	101	0.7%	96	0.6%
US Farming Realty III	97	0.0%	80	0.5%
Co-Investments	38	0.3%	44	0.3%
Total Natural Resources	\$ 793	5.4%	\$ 708	4.8%
Risk Diversifiers				
AQR Liquid Enhanced Alternative Premia	\$ 199	1.4%	\$ 270	1.8%
Aspect Core Diversified	75	0.5%	–	–
Bridgewater Pure Alpha	185	1.3%	205	1.4%
Bridgewater Pure Alpha Major Markets	195	1.3%	198	1.3%
FORT Global Contrarian Fund	210	1.4%	109	0.7%
Windham Capital	172	1.2%	327	2.2%
Windham Risk Premia	168	1.1%	144	1.0%
Total Risk Diversifiers	\$ 1,205	8.2%	\$ 1,252	8.4%
Cash				
Liquidity Account	58	0.4%	75	0.5%
Total Cash	\$ 58	0.4%	\$ 75	0.5%
Total Assets	\$14,720	100%	\$ 14,886	100%

Largest Holdings

Largest Holdings at June 30, 2020

Top 10 Direct Common Stock Holdings	Market Value	% of Assets
Microsoft	\$ 135,509,372	0.92%
Apple	\$ 132,667,910	0.90%
Amazon	\$ 104,015,790	0.71%
Alphabet	\$ 75,096,387	0.51%
Facebook	\$ 48,483,078	0.33%
Johnson & Johnson	\$ 32,973,516	0.22%
Berkshire Hathaway	\$ 30,945,780	0.21%
Visa	\$ 29,000,805	0.20%
Procter & Gamble	\$ 25,909,384	0.18%
JP Morgan Chase	\$ 25,333,274	0.17%

Some of the System's index fund investments are made through commingled funds, with MainePERS owning units in the funds, and having beneficial, rather than direct ownership of the securities. The largest holdings list reports direct holdings held outside of the commingled funds. For a complete list of the System's holdings, please visit the Investments section of the MainePERS website.

Securities Lending

MainePERS earns additional income on its investment portfolio by lending its securities. The System pays its custodian for managing the securities lending program. Information regarding the results of the securities lending program for the current and prior fiscal years may be found in the Financial Section starting on page 19.

Several of the collective trusts through which the System holds interests in commingled funds also lend securities. Because these trusts are legal entities separate from MainePERS, their lending activities are not reflected in the securities lending results reported in the financial statements. The System shares in the income and the risks of the securities lending activity in the commingled funds, and the income is included in the total income and return figures in this Investment Section and the Financial Statements.

Investment Performance

The table on the following pages displays the rates of return on the System's investment portfolio over the last ten fiscal years, and for the three, five, and ten-year periods ended June 30, 2020.

Over the ten-year period, the annualized rate of return on the System's assets was 8.3%. MainePERS experienced ten years of positive returns and zero years of negative returns. These results are consistent with the long-term risk/return strategy that forms the basis of the System's policies. At 8.3%, the ten-year return has outperformed relative to the 6.75% investment return assumption utilized in the actuarial process.

The total return figures in the table on pages 100 and 101 are calculated by the MainePERS custodian and are net of investment management fees and expenses (see Expenses, page 102). The table reports time weighted rates of return and all figures for periods greater than one year are annualized.

Investment Performance

Performance: Actual Returns vs. Benchmark Returns
 (All returns are time weighted)

Fiscal Year Ended June 30	Total Fund			Domestic Equity			Foreign Equity			Fixed Income			Real Estate		
	Actual Return	Benchmark Return ²	Excess Return ¹	Actual Return	Benchmark Return ³	Excess Return ¹	Actual Return	Benchmark Return ⁴	Excess Return ¹	Actual Return	Benchmark Return ⁵	Excess Return ¹	Actual Return	Benchmark Return ⁶	Excess Return ¹
2020	1.8%	0.0%	1.8%	5.9%	6.5%	-0.6%	-4.8%	-4.8%	0.0%	5.8%	8.7%	-3.0%	3.8%	5.3%	-1.5%
2019	7.3%	7.5%	-0.2%	9.0%	9.0%	0.0%	1.5%	1.3%	0.2%	9.9%	5.2%	4.7%	8.2%	6.8%	1.4%
2018	10.3%	8.5%	1.8%	14.8%	14.8%	0.1%	7.7%	7.3%	0.4%	1.0%	-0.4%	1.4%	8.6%	7.1%	1.4%
2017	12.5%	11.4%	1.1%	18.5%	18.5%	0.0%	20.8%	20.5%	0.4%	0.6%	-0.3%	0.9%	9.8%	5.6%	4.1%
2016	0.6%	1.0%	-0.4%	1.8%	2.0%	-0.3%	-10.1%	-9.8%	-0.3%	3.6%	6.0%	-2.4%	10.2%	9.4%	0.8%
2015	2.0%	1.8%	0.3%	7.2%	7.2%	0.0%	-5.1%	-4.9%	-0.2%	-0.4%	1.9%	-2.3%	11.4%	8.8%	2.6%
2014	16.7%	15.6%	1.1%	24.8%	25.0%	-0.2%	22.0%	22.3%	-0.3%	3.8%	4.4%	-0.6%	10.7%	5.5%	5.1%
2013	11.1%	10.4%	0.8%	21.5%	21.5%	0.1%	13.9%	14.1%	-0.2%	-1.9%	-0.7%	-1.3%	10.2%	7.8%	2.4%
2012	0.6%	1.4%	-0.8%	3.8%	4.0%	-0.2%	-14.3%	-14.2%	-0.2%	8.8%	9.0%	-0.1%	11.1%	13.4%	-2.3%
2011	22.4%	21.5%	0.9%	32.6%	32.4%	0.2%	30.0%	30.3%	-0.3%	6.2%	3.9%	2.3%	22.5%	16.0%	6.5%
3 years ending 2020	6.4%	5.2%	1.1%	9.9%	10.0%	-0.2%	1.3%	1.1%	0.2%	5.5%	4.4%	1.0%	6.8%	6.4%	0.4%
5 years ending 2020	6.4%	5.6%	0.8%	9.8%	10.0%	-0.2%	2.5%	2.4%	0.2%	4.1%	3.8%	0.3%	8.1%	6.8%	1.2%
10 years ending 2020	8.3%	7.7%	0.6%	13.6%	13.7%	-0.1%	5.2%	5.3%	0.0%	3.7%	3.7%	-0.1%	10.6%	8.5%	2.0%

Investment Performance

Performance: Actual Returns vs. Benchmark Returns
(All returns are time weighted)

Infrastructure			Private Equity			Natural Resources			Alternative Credit			Risk Diversifiers		
Actual Return	Benchmark Return ⁷	Excess Return ¹	Actual Return	Benchmark Return ⁸	Excess Return ¹	Actual Return	Benchmark Return ⁹	Excess Return ¹	Actual Return	Benchmark Return ¹¹	Excess Return ¹	Actual Return	Benchmark Return ¹²	Excess Return ¹
-0.7%	1.4%	-2.1%	0.8%	-10.7%	11.5%	4.1%	-27.5%	31.6%						
16.9%	10.2%	6.7%	11.2%	12.0%	-0.8%	4.1%	0.3%	3.8%						
16.6%	12.6%	4.0%	22.7%	17.8%	4.9%	11.5%	6.1%	5.3%						
14.7%	12.4%	2.2%	19.8%	21.5%	-1.8%	7.5%	21.2%	-13.7%						
6.8%	11.8%	-5.0%	6.6%	5.1%	1.5%	5.5%	-17.8%	23.2%						
5.4%	3.6%	1.8%	8.9%	10.3%	-1.4%				Data Not Meaningful ¹⁰			Data Not Meaningful ¹⁰		
15.5%	14.7%	0.8%	9.8%	7.9%	2.0%									
10.6%	8.0%	2.8%	11.2%	5.6%	5.1%	6.5%	-8.3%	12.9%						
10.6%	9.6%	1.1%	11.9%	8.5%	3.0%	6.5%	-5.1%	8.9%						

Notes:

- Excess Return is Actual Return minus Benchmark Return
- Total Fund Benchmark: A combination of the benchmarks for the five major asset classes using the target asset class weights.
- Domestic Equity Benchmark: Russell 3000 Index
- Foreign Equity Benchmark: Morgan Stanley Capital International All Country World Ex-U.S. Free, since Jan. 1, 1998
- General Fixed Income Benchmark: Barclays Capital Aggregate Bond Index less Governments plus TIPS, since Oct 2008
- Real Estate Benchmark: A combination of DJ Wilshire Real Estate Securities Index and National Council of Real Estate Investment Fiduciaries Property Index since July 1, 2005
- Infrastructure Benchmark: CA Infrastructure Median
- Private Equity Benchmark: Russell 3000 Index + 3%
- Natural Resources Benchmark: CA Natural Resources Median
- Natural Resources, Alternative Credit and Risk Diversifiers returns are not meaningful at this stage of the program.
- Alternative Credit Benchmark: 50% Bank of America US High Yield II + 50% S&P/Loan Syndications & Trading Association US Leverage Loan Index
- Risk Diversifiers Benchmark: 0.3 Beta Morgan Stanley Capital International All Country World Index

Investment Expenses

The table below displays investment management expenses directly attributable to the investment program and paid directly by the System. Examples of directly attributable expenses include fees paid to investment managers and compensation and expenses of the System's own investment professionals, including time spent on investment matters by staff other than full-time investment professionals to the extent it can be separately identified. Other expenses not paid directly by the System include the expenses of securities lending programs conducted by managers of the commingled funds.

The increase of expenses in 2020 can be attributed to the continued funding of the Alternatives Programs.

Detail for year ended 6/30/2020	Dollar Expense
Passive Equity	\$ —
Domestic Equity	0
International Equity	590,101
Domestic Fixed Income	217,378
Alternative Credit	7,915,269
Private Equity	46,038,921
Real Estate	16,228,431
Infrastructure	31,913,234
Natural Resources	7,627,960
Risk Diversifier	13,949,100
Consultants	1,124,353
Other Investment Expenses	635,296
In-house Expenses	3,583,254
DC Investment Expenses	52,496
Retiree Health Insurance Trust Expenses	88,274
Group Life Insurance Expenses	89,148
MainePERS OPEB	9,135
Total Investment Expenses – All Plans	\$ 130,062,350

Total for FY ended June 30 Defined Benefit Plans	\$ Millions	% of Total Assets
2020	130.1	0.88%
2019	117.2	0.79%
2018	101.5	0.71%
2017	93.8	0.70%
2016	76.0	0.62%
2015	54.7	0.44%
2014	41.1	0.32%
2013	31.4	0.28%
2012	24.3	0.23%
2011	19.7	0.18%

Brokerage Commissions Year Ended June 30, 2020

Broker	Commissions	Amount Traded (Millions)	Cost of Trade (%)	Total Shares (Millions)	Commissions (Cents per Share)
Bank of Americas Securities	\$ 12,925	\$ 95	0.014%	1.7	0.750
Pershing	7,998	71	0.011%	1.3	0.633
Societe Generale	3,426	105	0.003%	0.0	239.714
Instinet Clearing Services	3,115	92	0.003%	1.4	0.224
Credit Suisse	2,276	97	0.002%	1.7	0.136
Wells Fargo	1,842	67	0.003%	0.7	0.258
JP Morgan Chase	1,650	48	0.003%	0.0	4.354
Morgan Stanley	1,221	19	0.006%	0.3	0.392
National Financial Services Corp	987	6	0.016%	0.1	0.800
UBS	664	22	0.003%	0.3	0.254
Loop Capital Markets	603	4	0.014%	0.1	0.797
Citigroup	558	15	0.004%	0.2	0.308
Barclays	138	5	0.003%	0.2	0.082
Goldman Sachs	59	0	0.017%	0.0	0.800
Other	—	638	0.000%	10.3	0.000
Total	\$ 37,461	\$ 1,286	0.003%	18.2	0.049

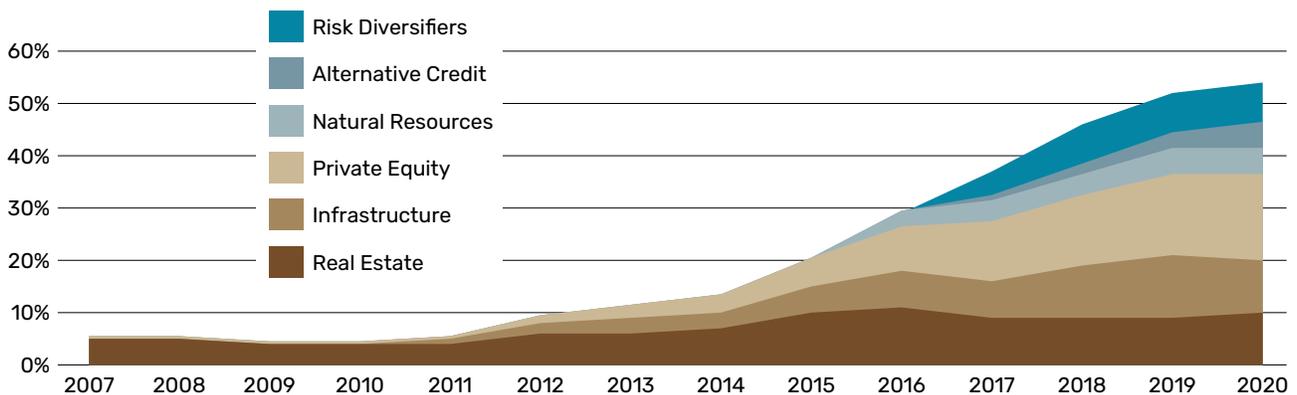
Commissions reported above are those paid directly by MainePERS. The table does not include other transaction costs the System may incur, nor does it include brokerage commissions incurred indirectly through investments in commingled funds. Brokerage commissions and other transaction costs are excluded from the expense table on page 102. Those commissions and expenses are accounted for in the net income and total return figures reported elsewhere in this report.

Selection of brokers is at the discretion of the System's investment managers, subject to their fiduciary obligations. MainePERS does not have any directed brokerage programs, commission recapture programs, or similar arrangements. Some of the System's managers have soft dollar arrangements with brokers, in which the broker agrees to provide additional services to the manager beyond trade execution. In addition some of the System's managers employ placement agents to market their funds. MainePERS does not pay placement agent fees and requires managers that do use placement agents to disclose the identity of said parties and the method and amount of payment.

A Note On Alternative Assets

The MainePERS Investment Team in 2008 recommended that the System increase its portfolio diversification by adding a number of alternative asset classes to its strategic asset allocation. Prior to this, essentially all of the volatility risk contained in the System's portfolio was due to its holdings of public equities. The expansion into alternative assets began with a strategic target allocation of 20% across Real Estate, Infrastructure, and Private Equity. In subsequent years the target overall allocation to alternative assets was increased to 55%, and Natural Resources, Alternative Credit, and Risk Diversifiers were added to the System's alternatives portfolio. The below chart shows the evolution of the System's Alternative Asset portfolio:

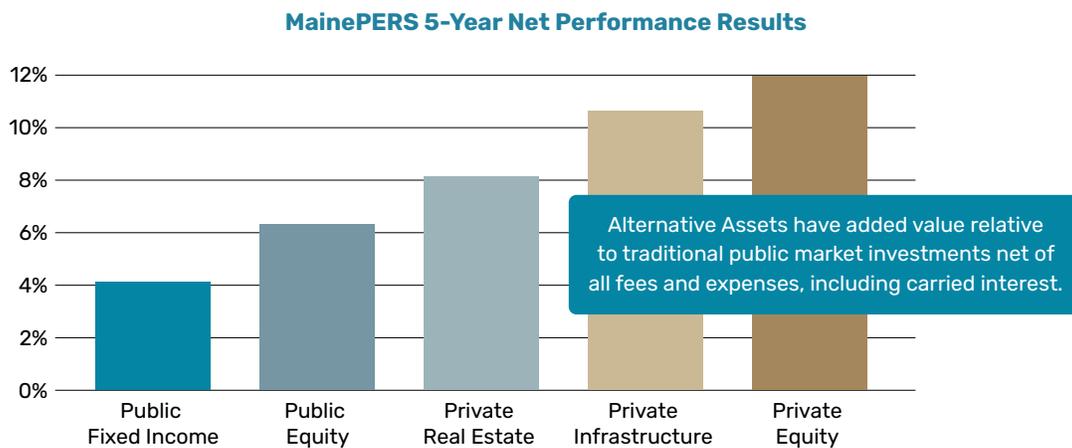
Alternative Asset Investments Over Time



Each of these alternative asset classes plays a unique role in the overall portfolio. Private equity seeks to grow capital at a rate in excess of public equities by taking control positions in individual companies. Real Estate and Infrastructure provide the portfolio with stability, by generally investing in long-lived assets with predictable cash flows. Risk Diversifiers are investments specifically chosen for their ability to earn returns unrelated to public market returns. More in-depth descriptions of alternative asset classes can be found in the System's Investment Policy Statement available on the System's website. The decision to reduce portfolio risk by allocating capital across these asset classes was the result of a deliberative process involving the Trustees, Investment Team and consultants. This process weighed the risks of each asset class (return volatility, illiquidity, potential for extreme downside, adverse selection, etc.) against potential benefits (diversification, stability, higher returns, cash yields, etc.), and took into account interactions between asset classes. The goal of the process was to construct a portfolio that would best enable the System to make future benefit payments while keeping required contributions stable at a reasonable level.

The System's allocation to alternative assets is implemented largely via investments in private funds managed by specialized asset managers. Over the last decade the Investment Team has implemented the System's alternative asset allocation by carefully selecting investment managers in each asset class. This part of the process is crucial — academic research demonstrates the importance of manager selection, as the dispersion between good and poor managers is far wider in alternative assets than in traditional asset classes. The Investment Team has proceeded with the implementation of the System's target allocations in deliberate fashion, and has invested in over 180 individual funds managed by 75 or so managers. While it is likely that some of these investments may perform below expectations, we believe that the alternative asset portfolio is well-constructed and composed of top performers. While evaluating investment performance requires taking a long-term view, and this is especially true with alternative assets, we are pleased with the performance of the alternative asset portfolio to-date.

A Note On Alternative Assets



Finally, it is important to note that while in many cases expenses associated with alternative assets are higher than for traditional asset classes, all returns and asset values reported in this document are net of all fees and expenses. Many of the System's alternative investment partnership agreements provide for the manager to receive a share of profits, known as carried interest. Carried interest is generally only paid once the System has earned a sufficient return, generally in excess of the System's discount rate. Reported returns and asset values are net of carried interest. The Group Life Insurance program is supported by premiums paid by its participants and by reserves. Substantially all the reserves are maintained in an investment portfolio, for which the summary results are displayed below. (Certain assets, such as the cash in the operating bank account, are not considered part of the investment portfolio.) Over this period, the increase in portfolio value is attributable to positive investment return and positive cash flow.

Group Life Insurance Program

Summary of Investment Activity

FY Ended June 30	Opening Market Value	Closing Market Value	Actual Return	Benchmark Return	Performance
2020	130.8	138.7	4.8%	3.3%	1.5%
2019	120.4	130.8	6.6%	7.1%	-0.5%
2018	110.5	120.4	8.9%	8.6%	0.3%
2017	97.9	110.5	12.8%	13.0%	-0.2%
2016	95.2	97.9	0.9%	1.0%	-0.1%
2015	92.2	95.2	2.6%	2.7%	-0.1%
2014	78.3	92.2	18.6%	18.3%	0.3%
2013	68.1	78.3	13.4%	13.1%	0.3%
2012	66.4	68.1	0.6%	0.5%	0.1%
2011	58.0	66.4	24.5%	24.4%	0.1%
		3 yrs ended 2020	6.8%	6.3%	0.4%
		5 yrs ended 2020	6.7%	6.5%	0.2%
		10 yrs ended 2020	9.1%	8.9%	0.2%

In fiscal year 2009, the Group Life Insurance assets were separated from the defined benefit plan assets while maintaining the same type of investment strategy. Up until this change, beginning in November 2005, the assets had been combined with those of the other plans in the general investment portfolio. Prior to November 2005, the assets had been invested in either a medium term, investment grade fixed income portfolio or similar commingled funds. While the assets were invested in a mutual fund, they were not available for the System's own securities lending program. Any securities lending undertaken by the mutual fund is not covered in this report, although any results are reflected in the total return or gain/loss figures.

Over the ten-year period ended June 30, 2020, the actual return on the portfolio was essentially equivalent to the return of the performance benchmark.

The fees paid by the portfolio are consistent with those detailed in the fees and expenses tables of the previous section. For the period of time the portfolio was invested in a mutual fund, fees were consistent with other holders of the institutional class of shares, as detailed in the fund's prospectus.

Actuarial Section



Bass Harbor Lighthouse, Bass Harbor



October 16, 2020

Board of Trustees
Maine Public Employees Retirement System
P.O. Box 349
Augusta, Maine 04332-0349

Dear Members of the Board:

At your request, we have conducted our annual actuarial valuation for each of the funded pension programs administered by the Maine Public Employees Retirement System (MainePERS) as of June 30, 2020 as well as the Group Life Insurance (GLI) Programs. The purpose of this report is to present the annual actuarial valuation results for the various Programs as they relate to financial reporting. Further information, including several risk assessments and stress testing projections, are included in the actuarial valuation report for each System. This report is for the use of the MainePERS Board of Trustees and its auditors in preparing financial reports in accordance with applicable law and accounting requirements. 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 any other user.

Funding Objective

The funding objective for the pension Programs administered by MainePERS is to establish contribution rates that, over time, will remain level as a percentage of payroll while fully funding the Programs. In order to achieve this, we develop contribution rates for each Program that will provide for the current costs (i.e., normal cost expressed as a level percentage of payroll) plus a level percentage of payroll amortization of the unfunded liability over a specified period. To our knowledge, the plan sponsors have consistently funded the full amounts required based on the actuarial valuations and specific statutory provisions.

The funding objective for the retiree GLI Programs is to contribute at least the Actuarially Determined Contribution (ADC) for Teachers, and to contribute based on premium rates for all other State participants and participants of Participating Local Districts (PLDs). Sufficiency of premium rate funding is reviewed at least every 4 years, with the most recent study being performed in 2020. Rates for State participants, as well as the ADC for Teachers, are determined so that the liability will be fully funded by FYE 2038, and Rates for PLDs are determined so that the liability will be fully funded by FYE 2036.

Assumptions and Methods

The actuarial assumptions and methods used in these valuations have been recommended by the actuary and adopted by the Board of Trustees based on the actuary's most recent review of each Program's experience.

We believe that all the costs, liabilities, rates of interest, and other factors for MainePERS have been determined on the basis of actuarial assumptions and methods that are individually reasonable (taking into account the experience of the Programs administered by MainePERS and reasonable expectations) and that, in the aggregate, offer our best estimate of anticipated experience affecting the Programs. Nevertheless, the emerging costs rely on future plan experience conforming to the underlying assumptions and methods as outlined in this report. To the extent that the actual experience of the Programs deviates from the underlying assumptions and methods, or there are any changes in plan provisions or applicable law, the results will vary accordingly.

The calculations in the following exhibits have been made on a basis consistent with our understanding of MainePERS's funding requirements and goals. The GLI numbers disclosed in the Financial Section were produced in accordance with our understanding of the requirements of Governmental Accounting Standards Board (GASB) Statement No. 74 while the accounting disclosure items in the Financial Section related to the pension Programs are developed in accordance with our understanding of the requirements of GASB Statement No. 67. Determinations for purposes other than meeting these requirements may be significantly different from the results contained in this report. Accordingly, additional determinations may be needed for other purposes.

Reliance on Others

In preparing our report, we relied on information, some oral and some written, supplied by MainePERS. This information includes, but is not limited to, the plan provisions, membership data, and financial information. We performed a limited review of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial

Standard of Practice No. 23 and have found no material defects in the data. If there are material defects in the data, it is possible that they would be uncovered by a detailed, systematic review and comparison of the data to search for data values that are questionable. Such a review was beyond the scope of our assignment.

Determination of Discount Rate

We have not performed formal cash flow projections as described under Paragraph 41 of GASB No. 67. However, Paragraph 43 of No. 67 allow for alternative methods to confirm the sufficiency of the fiduciary net position if the evaluations "can be made with sufficient reliability without a separate projection of cash flows into and out of the pension plan..." In our professional judgment, adherence to the actuarial funding policy described above and detailed further in the individual valuation reports will result in the pension programs having projected fiduciary net positions being greater than or equal to the benefit payments projected for each future period for each Program within the System.

For the GLI Programs, we performed formal cash flow projections as described under Paragraph 49 of GASB No. 74. The fiduciary net position 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 Program's investments was applied to all periods of projected benefit payments in determining the Total OPEB Liability.

Supporting Schedules

Cheiron is responsible for the following schedules included within the Financial and Actuarial Sections of the MainePERS Comprehensive Annual Financial Report:

- Schedule of Active Member Valuation Data
- Schedule of Benefit Recipients Valuation Data
- Schedule of Retirees and Beneficiaries Added to and Removed from the Rolls
- Schedule of Change in Net Pension Liability
- Sensitivity of Net Pension Liability to Changes in Discount Rate
- Analysis of Financial Experience
- Schedule of Funded Liabilities by Type
- Schedule of Changes in Net OPEB Liability

Certification

We believe that the Programs administered by MainePERS are adequately and appropriately financed including contributions that are determined and funded on a level cost as a percentage of payroll basis using reasonable actuarial methods and assumptions.

To the best of our knowledge, 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. This includes the use of assumptions and methods for funding purposes that comply with the Actuarial Standards of Practice. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the 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.

This report does not contain any adjustments for potential impact of COVID-19 on either economic or demographic assumptions. We anticipate that the virus may have implications in both the short and long term, but the net impact of these is not determinable at this time.

Sincerely,
Cheiron



Gene Kalwarski, FSA, EA
Principal Consulting Actuary



Fiona E. Liston, FSA, EA
Principal Consulting Actuary



Elizabeth Wiley, FSA, EA
Consulting Actuary



Section I
Demographic Information

Schedule of Active Member Valuation Data

Valuation Date June 30,	Number of Active Members	Annual Payroll of Active Members	Average Annual Pay	Percentage Increase in Average Pay
State Employee and Teacher Retirement Program				
2020	40,395	\$ 2,060,622,725	\$ 51,012	2.79%
2019	39,876	1,979,024,476	49,629	4.55%
2018	39,843	1,891,366,352	47,470	2.91%
2017	39,836	1,837,608,866	46,129	2.82%
2016	39,942	1,792,004,417	44,865	2.88%
2015	40,016	1,745,075,075	43,609	1.62%
2014	39,669	1,702,310,338	42,913	7.92%
2013	41,809	1,662,390,557	39,762	(8.93)%
2012	39,360	1,718,449,172	43,660	2.97%
2011	38,759	1,643,389,735	42,400	1.13%
Consolidated Plan for Participating Local Districts				
2020	11,838	\$ 623,587,639	\$ 52,677	3.84%
2019	11,731	595,083,006	50,727	2.87%
2018	11,416	562,952,637	49,313	3.93%
2017	11,195	531,168,594	47,447	3.37%
2016	11,019	505,798,133	45,902	1.63%
2015	10,870	490,974,092	45,168	6.51%
2014	10,848	460,029,637	42,407	2.79%
2013	11,112	458,424,764	41,255	(6.41)%
2012	10,772	474,828,262	44,080	7.55%
2011	10,614	435,012,940	40,985	6.99%
Non-Consolidated Participating Local Districts				
2020	1	\$ 44,387	\$ 44,387	(26.05)%
2019	12	720,245	60,020	4.15%
2018	16	922,083	57,630	2.09%
2017	19	1,072,561	56,451	5.54%
2016	21	1,123,218	53,487	1.85%
2015	23	1,207,796	52,513	3.86%
2014	24	1,213,514	50,563	(0.92)%
2013	28	1,428,984	51,035	0.97%
2012	28	1,415,305	50,547	0.38%
2011	31	1,561,053	50,357	23.11%
Judicial Retirement Program				
2020	58	\$ 7,803,741	\$ 134,547	2.72%
2019	61	7,989,945	130,983	0.02%
2018	62	8,119,342	130,957	6.17%
2017	63	7,770,523	123,342	6.44%
2016	62	7,184,400	115,877	(5.29)%
2015	56	6,851,612	122,350	9.76%
2014	60	6,688,159	111,469	(0.81)%
2013	60	6,742,444	112,374	(2.36)%
2012	59	6,790,274	115,089	0.00%
2011	59	6,790,233	115,089	(2.39)%
Legislative Retirement Program*				
2020	179	\$ 2,814,060	\$ 15,721	5.80%
2019	179	2,659,749	14,859	1.41%
2018	185	2,710,694	14,652	2.24%
2017	185	2,651,195	14,331	(2.06)%
2016	177	2,590,011	14,633	3.92%
2015	180	2,534,548	14,081	1.24%
2014	181	2,517,431	13,908	(0.14)%
2013	182	2,534,740	13,927	0.53%
2012	175	2,424,480	13,854	0.04%
2011	173	2,395,694	13,848	(1.25)%

*Legislative salaries in even-numbered valuation years have been increased to approximate a full session amount.

Section I Demographic Information

Schedule of Benefit Recipients Valuation Data

Valuation Date June 30,	Total Number of Benefit Recipients at Year End	Annual Payments to Benefit Recipients	Average Annual Benefit	Percentage Increase in Average Benefit
State Employee and Teacher Retirement Program				
2020	37,151	\$ 859,787,631	\$ 23,143	1.49%
2019	36,471	831,655,042	22,803	2.49%
2018	35,601	792,094,655	22,249	1.89%
2017	34,870	761,472,435	21,837	2.51%
2016	34,181	728,131,830	21,302	2.41%
2015	33,260	691,848,265	20,801	2.30%
2014	32,391	658,595,271	20,333	0.87%
2013	31,624	637,482,081	20,158	0.03%
2012	30,485	614,303,923	20,151	2.33%
2011	28,900	569,141,838	19,693	1.69%
Consolidated Plan for Participating Local Districts				
2020	9,860	\$ 169,508,194	\$ 17,192	2.56%
2019	9,534	159,816,939	16,763	3.62%
2018	9,256	149,732,113	16,177	2.99%
2017	9,006	141,460,984	15,707	2.45%
2016	8,847	135,629,476	15,331	0.70%
2015	8,581	130,647,324	15,225	3.02%
2014	8,333	123,149,154	14,778	2.99%
2013	8,122	116,539,396	14,349	(2.11)%
2012	7,520	110,230,682	14,658	5.77%
2011	7,409	102,681,024	13,859	2.70%
Non-Consolidated Participating Local Districts				
2020	50	\$ 747,849	\$ 14,957	(19.59)%
2019	163	3,032,058	18,602	17.17%
2018	170	2,698,875	15,876	2.51%
2017	174	2,694,654	15,487	(0.14)%
2016	172	2,667,586	15,509	2.36%
2015	176	2,666,644	15,151	6.69%
2014	191	2,712,331	14,201	6.82%
2013	196	2,605,703	13,294	0.53%
2012	199	2,631,584	13,224	6.95%
2011	201	2,485,447	12,365	0.01%
Judicial Retirement Program				
2020	83	\$ 4,602,349	\$ 55,450	3.35%
2019	76	4,077,523	53,652	2.76%
2018	75	3,915,645	52,209	6.28%
2017	75	3,684,373	49,125	1.05%
2016	74	3,597,415	48,614	1.47%
2015	71	3,401,651	47,911	(1.25)%
2014	67	3,250,749	48,519	(3.23)%
2013	65	3,258,916	50,137	0.94%
2012	63	3,129,136	49,669	(0.64)%
2011	62	3,099,334	49,989	0.19%
Legislative Retirement Program				
2020	206	\$ 461,644	\$ 2,241	4.04%
2019	204	439,364	2,154	1.89%
2018	185	391,070	2,114	4.45%
2017	185	374,529	2,024	1.05%
2016	174	348,592	2,003	4.00%
2015	170	327,469	1,926	3.55%
2014	153	284,588	1,860	2.42%
2013	155	281,433	1,816	(3.25)%
2012	141	264,716	1,877	1.19%
2011	145	268,980	1,855	1.31%

Section I Demographic Information

Schedule of Retirees and Beneficiaries Added to and Removed from the Rolls

Valuation Date June 30,	Added to Rolls		Removed from Rolls		On Rolls at Year End	
	No.	Annual Allowance	No.	Annual Allowance	No.	Annual Allowance
State Employee and Teacher Retirement Program						
2020	1,755	\$ 49,364,473	1,075	\$ 21,231,884	37,151	\$ 859,787,631
2019	1,868	58,337,066	998	18,776,679	36,471	831,655,042
2018	1,781	49,254,819	1,050	18,632,598	35,601	792,094,655
2017	1,641	49,809,275	952	16,468,670	34,870	761,472,435
2016	1,840	52,295,379	919	16,011,814	34,181	728,131,830
2015	1,834	49,547,474	965	16,294,480	33,260	691,848,265
2014	1,668	36,572,188	901	15,458,998	32,391	658,595,271
2013	1,995	37,073,840	856	13,895,682	31,624	637,482,081
2012	2,402	58,170,235	817	13,008,150	30,485	614,303,923
2011	1,515	35,608,087	863	13,508,468	28,900	569,141,838
Consolidated Plan for Participating Local Districts*						
2020	666	\$ 14,079,408	340	\$ 4,388,153	9,860	\$ 169,508,194
2019	585	14,105,844	307	4,021,018	9,534	159,816,939
2018	602	12,950,872	352	4,679,743	9,256	149,732,113
2017	521	10,098,997	362	4,267,489	9,006	141,460,984
2016	543	8,643,493	277	3,661,341	8,847	135,629,476
2015	620	11,937,098	372	4,438,928	8,581	130,647,324
2014	516	9,816,061	305	3,206,304	8,333	123,149,154
Non-Consolidated Participating Local Districts*						
2020	0	\$ 9,470	113	\$ 2,293,679	50	\$ 747,849
2019	7	516,503	14	183,320	163	3,032,058
2018	4	72,079	8	67,858	170	2,698,875
2017	6	106,640	4	79,572	174	2,694,654
2016	2	64,941	6	63,999	172	2,667,586
2015	3	92,920	18	138,607	176	2,666,644
2014	6	162,335	11	55,706	191	2,712,331
PLDs (Consolidated and Non-Consolidated Plans)*						
2013	881	\$ 9,563,286	300	\$ 3,280,453	8,318	\$ 119,145,099
2012	425	10,710,058	316	3,014,263	7,719	112,862,266
2011	516	8,796,407	276	2,862,417	7,610	105,166,471
Judicial Retirement Program						
2020	8	\$ 607,435	1	\$ 82,609	83	\$ 4,602,349
2019	2	187,761	1	25,883	76	4,077,523
2018	5	460,761	5	229,489	75	3,915,645
2017	1	86,958	0	0	75	3,684,373
2016	7	426,643	4	230,879	74	3,597,415
2015	6	312,332	2	161,430	71	3,401,651
2014	6	254,034	4	262,201	67	3,250,749
2013	3	148,384	1	18,604	65	3,258,916
2012	3	142,235	2	112,433	63	3,129,136
2011	6	305,189	0	0	62	3,099,334
Legislative Retirement Program						
2020	10	\$ 36,369	8	\$ 14,089	206	\$ 461,644
2019	25	67,535	6	19,241	204	439,364
2018	8	30,692	8	14,151	185	391,070
2017	20	48,314	9	22,377	185	374,529
2016	12	38,391	8	17,268	174	348,592
2015	25	53,264	8	10,383	170	327,469
2014	5	10,934	7	7,779	153	284,588
2013	18	24,752	4	8,035	155	281,433
2012	2	9,025	6	13,289	141	264,716
2011	18	36,695	4	7,538	145	268,980

*This schedule was developed in aggregate for the Participating Local Districts prior to 2014. Beginning with 2014, it was developed split between the Consolidated Plan and the Non-Consolidated PLDs.

Section II
Accounting Information

**Schedule of Change in Net Pension Liability
as of June 30, 2020**

	State Employee & Teacher Retirement Program	Consolidated Plan for PLDs	Non- Consolidated PLDs	Judicial Retirement Program	Legislative Retirement Program
Total Pension Liability					
Service Cost	\$ 231,226,103	\$ 82,715,056	\$ 51,825	\$ 1,608,376	\$ 334,862
Interest	968,243,358	219,752,007	1,484,635	4,644,191	611,447
Change in benefit terms	1,223,156	29,759,516	(29,907,766)	0	0
Difference between expected and actual experience	162,293	(6,552,650)	344,890	942,561	413,313
Change in assumptions	0	0	0	0	0
Benefit payments, including refunds	(882,617,693)	(174,752,167)	(2,672,923)	(4,314,558)	(697,697)
Net change in Total Pension Liability	\$ 318,237,217	\$ 150,921,762	\$ (30,699,339)	\$ 2,880,570	\$ 661,925
Total Pension Liability – beginning of year	\$ 14,547,222,913	\$ 3,258,819,605	\$ 38,109,783	\$ 69,316,540	\$ 9,066,764
Total Pension Liability – end of year	\$ 14,865,460,130	\$ 3,409,741,367	\$ 7,265,280	\$ 72,197,110	\$ 9,728,689
Plan Fiduciary Net Position					
Contributions – Employer	\$ 399,802,386	\$ 66,717,733	\$ 345,323	\$ 715,963	\$ 0
Contributions – Member	151,438,848	54,090,045	28,693	616,095	156,306
Transfers	(2,199,107)	27,683,461	(26,823,377)	764,902	365,766
Net Investment Income	354,272,726	88,330,927	421,329	2,164,283	390,165
Benefit payments, including refunds	(882,617,693)	(174,752,167)	(2,672,923)	(4,314,558)	(697,697)
Administrative Expenses	(11,343,928)	(2,797,728)	(20,772)	(69,406)	(12,458)
Net Change in Plan Fiduciary Net Position	\$ 9,353,232	\$ 59,272,271	\$ (28,721,727)	\$ (122,721)	\$ 202,082
Plan Fiduciary Net Position – beginning of year	\$ 12,035,563,047	\$ 2,953,156,096	\$ 37,061,228	\$ 73,637,441	\$ 13,248,022
Plan Fiduciary Net Position – end of year	\$ 12,044,916,279	\$ 3,012,428,367	\$ 8,339,501	\$ 73,514,720	\$ 13,450,104
Net Pension Liability/(Asset) – end of year	\$ 2,820,543,851	\$ 397,313,000	\$ (1,074,221)	\$ (1,317,610)	\$ (3,721,415)

Section II
Accounting Information

**Sensitivity of Net Pension Liability to Changes in Discount Rate
as of June 30, 2020**

	State Employee & Teacher Retirement Program	Consolidated Plan for PLDs	Non- Consolidated PLDs	Judicial Retirement Program	Legislative Retirement Program
Discount Rate					
1% Decrease	5.75%	5.75%	5.75%	5.75%	5.75%
Current Discount Rate	6.75%	6.75%	6.75%	6.75%	6.75%
1% Increase	7.75%	7.75%	7.75%	7.75%	7.75%
Net Pension Liability					
1% Decrease	\$ 4,238,894,263	\$ 834,991,553	\$ (350,431)	\$ 5,067,735	\$ (2,758,540)
Current Discount Rate	2,820,543,851	397,313,000	(1,074,221)	(1,317,610)	(3,721,415)
1% Increase	1,030,188,223	39,040,999	(1,736,964)	(6,879,716)	(4,557,481)

Section II
Accounting Information

The table below is a gain/loss analysis of the changes in the actuarial liability, reflecting variances between actual experience and assumed experience for different kinds of risk as specified in the GFOA GAAFR.

**Analysis of Financial Experience
Gain and Loss in Accrued Liability During Year
Resulting from Differences Between Assumed Experience and Actual Experience
For Year Ended June 30, 2020**

Type of Activity	State Employee & Teacher Retirement Program	Consolidated Plan for PLDs	Non- Consolidated PLDs	Judicial Retirement Program	Legislative Retirement Program
Investment Income	\$ (102,951,302)	\$ (24,747,551)	\$ (529,154)	\$ (630,358)	\$ (116,186)
Combined Liability Experience	(162,293)	6,552,650	(344,890)	(942,561)	(413,313)
Gain (or Loss) During Year from Financial Experience	\$ (103,113,595)	\$ (18,194,901)	\$ (874,044)	\$ (1,572,919)	\$ (529,499)
Non-Recurring Items	(1,223,156)	(2,936,139)	29,907,766	0	0
Composite Gain (or Loss) During Year	\$ (104,336,751)	\$ (21,131,040)	\$ 29,033,722	\$ (1,572,919)	\$ (529,499)

Section II
Accounting Information

**Schedule of Funded Liabilities by Type
Aggregate Actuarial Liabilities For**

Valuation Date June 30,	(1) Active Member Contributions	(2) Retirees, Vested Terms, Beneficiaries	(3) Active Members (Employer Financed Portion)	Reported Assets*	Portion of Actuarial Liabilities Covered by Reported Assets		
					(1)	(2)	(3)
State Employee and Teacher Retirement Program							
2020	\$ 2,600,834,192	\$ 9,668,292,329	\$ 2,596,333,609	\$ 12,249,961,306	100%	100%	0%
2019	2,499,498,544	9,460,680,994	2,587,043,375	11,894,672,150	100%	99%	0%
2018	2,453,797,249	9,030,789,541	2,546,601,055	11,419,986,651	100%	99%	0%
2017	2,402,112,525	8,727,549,999	2,355,223,988	10,904,082,221	100%	97%	0%
2016	2,359,818,665	8,399,121,582	2,311,014,701	10,512,524,178	100%	97%	0%
2015	2,339,138,044	7,831,348,903	2,445,800,107	10,375,552,498	100%	100%	8%
2014	2,315,075,905	7,572,038,284	2,433,044,594	10,017,512,006	100%	100%	5%
2013	2,290,505,939	7,181,259,077	2,358,884,866	9,177,749,627	100%	96%	0%
2012	2,271,164,594	6,656,860,191	2,625,281,496	8,880,730,120	100%	99%	0%
2011	2,229,984,967	6,453,384,730	2,598,295,489	8,736,885,121	100%	100%	2%
Consolidated Plan for Participating Local Districts							
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%
2014	423,097,001	1,462,031,828	724,529,016	2,379,733,634	100%	100%	68%
2013	412,347,408	1,378,065,748	675,521,588	2,179,961,872	100%	100%	58%
2012	398,895,449	1,262,186,227	707,745,483	2,103,481,277	100%	100%	63%
2011	379,478,840	1,175,482,545	676,024,931	2,084,982,632	100%	100%	78%
Non-Consolidated Participating Local Districts							
2020	\$ 622,269	\$ 6,901,654	\$ (258,643)	\$ 8,481,468	100%	100%	100%
2019	4,329,750	32,342,346	1,437,687	36,627,381	100%	100%	0%
2018	4,461,906	30,747,638	2,782,257	36,380,088	100%	100%	42%
2017	4,468,152	30,140,204	3,419,931	35,772,138	100%	100%	34%
2016	4,494,490	30,215,191	3,337,304	35,516,058	100%	100%	24%
2015	4,640,093	29,733,833	4,144,814	35,942,796	100%	100%	38%
2014	4,667,251	31,696,569	3,382,954	35,485,488	100%	97%	0%
2013	4,764,800	29,539,283	4,180,808	33,454,845	100%	97%	0%
2012	4,757,033	27,810,149	4,313,899	33,172,070	100%	100%	14%
2011	4,815,718	26,832,938	4,939,550	34,483,299	100%	100%	57%
Judicial Retirement Program							
2020	\$ 12,368,756	\$ 43,098,408	\$ 16,729,946	\$ 74,766,188	100%	100%	100%
2019	11,255,316	37,884,418	20,176,806	72,775,425	100%	100%	100%
2018	11,180,063	36,854,246	20,257,615	69,934,400	100%	100%	100%
2017	10,933,820	33,422,798	20,643,526	66,776,230	100%	100%	100%
2016	10,592,002	33,418,288	19,710,981	64,265,782	100%	100%	100%
2015	9,717,368	30,422,680	18,771,569	57,074,951	100%	100%	90%
2014	9,466,378	28,785,537	16,308,727	55,419,017	100%	100%	100%
2013	9,464,604	26,605,274	16,304,907	51,055,251	100%	100%	92%
2012	9,379,428	24,731,810	12,229,440	49,735,004	100%	100%	100%
2011	9,028,737	24,690,578	14,148,982	49,324,784	100%	100%	100%
Legislative Retirement Program							
2020	\$ 3,039,660	\$ 6,844,699	\$ (155,670)	\$ 13,679,070	100%	100%	100%
2019	2,667,308	6,903,616	(504,160)	13,092,938	100%	100%	100%
2018	2,591,378	6,277,075	(308,503)	12,523,131	100%	100%	100%
2017	2,516,620	6,172,223	(525,533)	11,908,009	100%	100%	100%
2016	2,505,647	5,795,917	(622,106)	11,405,769	100%	100%	100%
2015	2,444,638	5,581,571	(467,916)	11,219,880	100%	100%	100%
2014	2,464,847	5,073,388	(33,042)	10,775,701	100%	100%	100%
2013	2,363,217	4,965,686	(456,289)	9,771,955	100%	100%	100%
2012	2,321,819	3,895,976	25,844	9,322,419	100%	100%	100%
2011	2,228,233	4,002,993	(506,033)	9,040,180	100%	100%	100%

*Reported assets are measured at actuarial value. Results would be different if 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 value of the Program.

Section II Accounting Information

The Maine Public Employees Retirement System covers Postretirement Group Life Insurance obligations for the participants of the State Employee and Teacher Retirement Program, the Judicial Retirement Program, and the Legislative Retirement Program, which we collectively call the State Sponsored Plans and the Participating Local Districts Plans (PLDs).

Schedule of Changes in Net OPEB Liability as of June 30, 2020

	State Sponsored Plans Retiree Group Life Insurance	PLD Retiree Group Life Insurance
Total OPEB Liability		
Service cost (BOY)	\$ 2,190,471	\$ 522,353
Interest (includes interest on service cost)	14,274,714	1,941,994
Change in benefit terms	0	(636,731)
Difference between expected and actual experience	589,478	727,053
Change in assumptions	0	(9,045,090)
Benefit payments, including refunds	(8,177,754)	(1,589,460)
Net change in total OPEB liability	<u>\$ 8,876,909</u>	<u>\$ (8,079,881)</u>
Total OPEB Liability – beginning of year	\$ 204,431,998	\$ 37,656,642
Total OPEB Liability – end of year	\$ 213,308,907	\$ 29,576,761
Plan Fiduciary Net Position		
Contributions – Employer	\$ 9,310,849	\$ 1,127,014
Contributions – Member	0	0
Net Investment Income	4,885,544	752,517
Benefit payments, including refunds	(8,177,754)	(1,589,460)
Administrative Expense	(1,018,932)	(164,654)
Net Change in Plan Fiduciary Net Position	<u>\$ 4,999,707</u>	<u>\$ 125,417</u>
Plan Fiduciary Net Position – beginning of year	\$ 100,616,782	\$ 16,259,162
Plan Fiduciary Net Position – end of year	\$ 105,616,489	\$ 16,384,579
Net OPEB Liability – end of year	\$ 107,692,418	\$ 13,192,182

State Employee and Teacher Program Summary of Program and Plan Provisions

State Employee and Teacher Program

1. Membership

Membership is a condition of employment for state employees and teachers, and optional for elected and appointed officials.

Membership ceases on the earlier of withdrawal of contributions, retirement, or death.

2. Member Contributions

Except as otherwise described below, members are required to contribute 7.65% of earnable compensation. Member contributions earn annual interest at the rate adopted by the Board of Trustees each February.

Contribution Requirements for Special State Employee Groups

State police and inland fisheries and wildlife officers employed before September 1, 1984: required to contribute 8.65% of earnable compensation for 20 years of service and 7.65% thereafter.

Forest rangers employed before September 1, 1984: required to contribute 8.65% of earnable compensation until eligible for retirement and 7.65% thereafter.

1998 Special Plan employees, which includes state prison employees, airplane pilots, forest rangers, defense, veterans and emergency management firefighters employed at Bangor International Airport, corrections employees, Baxter State Park Authority rangers, State Fire Marshal and state fire marshal inspectors, oil and hazardous materials emergency response workers, and capitol security officers: required to contribute 8.65% of earnable compensation for 25 years and 7.65% thereafter.

State police employed on or after September 16, 1984 and special agent investigators hired before June 21, 1982: required to contribute 8.65% of earnable compensation for 25 years and 7.65% thereafter.

Inland fisheries and wildlife officers and marine resources officers employed on or after September 1, 1984: required to contribute 8.65% of earnable compensation for 25 years and 7.65% thereafter.

Fire marshal investigators and fire marshal sergeants: required to contribute 8.65% of earnable compensation until eligible for retirement and 7.65% thereafter.

3. 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.

For compensation paid on or after July 1, 1993, increases in earnable compensation of greater than 5% per year or greater than 10% over the highest three years are not included in calculating average final compensation unless the employer pays the cost of including such compensation. Earnable compensation does not include sick and vacation pay for those members who had less than ten years of service at July 1, 1993. For members for whom sick and vacation pay is includable in earnable compensation, these payments are included in applying the caps described above.

4. Creditable Service

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

State Employee and Teacher Program Summary of Program and Plan Provisions

5. Service Retirement Benefits

A. Regular Plan (State Employees and Teachers)

i. Provisions for Members with at Least Ten Years of Creditable Service on July 1, 1993

Normal Retirement Age: 60

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.

Eligibility for Members not in Active Service at Retirement and not in Active Service on or after October 1, 1999: At least ten 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 creditable service and up to 25 years of prior service, reduced by the following approximate percentages for each year retirement age is less than age 60.

Age	Reduction	Age	Reduction
45	29.3%	53	16.6%
46	28.0	54	14.6
47	26.6	55	12.5
48	25.2	56	10.3
49	23.6	57	7.9
50	22.0	58	5.4
51	20.3	59	2.8
52	18.5	60	0.0

Form of Payment: Life annuity.

ii. Provisions for Members with Less Than Ten Years of Creditable Service on July 1, 1993

Normal Retirement Age: 62

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 age 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 ten 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 and up to 25 years of prior service, reduced by 6% for each year retirement age is less than age 62.

Form of Payment: Life annuity.

State Employee and Teacher Program Summary of Program and Plan Provisions

iii. Provisions for Members with Less Than Five Years of Creditable Service on July 1, 2011

Normal Retirement Age: 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 age 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 ten 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 and up to 25 years of prior service, reduced by 6% for each year retirement age is less than age 65.

Form of Payment: Life annuity.

B. Special Plans (State Employees)

i. State Police Employed Before September 16, 1984 and Inland Fisheries and Wildlife Officers Employed Before September 1, 1984

Eligibility: 20 years of creditable service in named positions.

Benefit: One-half of average final compensation plus 2% for each year of service in excess of 20. If greater, the pro-rated portion of the benefit for service before July 1, 1976 is based on annual pay instead of average final pay.

Form of Payment: 50% joint and survivor annuity or life annuity.

ii. Forest Rangers Employed Before September 1, 1984

Eligibility: Age 50 with 25 years of creditable service as a forest ranger.

Benefit: One-half of average final compensation plus 2% for each year of service earned after qualification for retirement. If greater, the pro-rated portion of the benefit for service before July 1, 1976 is based on annual pay instead of average final pay.

Form of Payment: Life annuity.

iii. 1998 Special Plan

1998 Entrants: State prison employees, airline pilots, forest rangers, and liquor inspectors, employed after August 31, 1984; defense, veterans, and emergency management firefighters employed on and after July 1, 1998.

2000 Entrants: Baxter State Park Authority rangers, correctional employees, and State Fire Marshal and state fire marshal inspectors employed on or after January 1, 2000.

2002 Entrants: Capitol Police and oil and hazardous materials emergency response workers.

Eligibility: Ten years of creditable service under the 1998 Special Plan in one or a combination of the covered capacities and the attainment of age 55 – OR – 25 years of creditable service in one or a combination of the covered capacities.

State Employee and Teacher Program Summary of Program and Plan Provisions

Benefit: For service prior to coverage in the 1998 Special Plan, 1/50 of average final compensation multiplied by years of service reduced for retirement before age 60, 62, or 65 (as determined by the applicable Regular Plan provisions described in 5.A.), except oil and hazardous materials emergency response workers, certain prison employee, and Capitol Police benefits are reduced for retirement before age 55.

-PLUS-

For service under the 1998 Special Plan, 1/50 of average final compensation multiplied by years of service reduced for retirement before age 55.

Form of Payment: Life annuity.

iv. 25 & Out Plan

1998 Entrants: State police employed on or after September 16, 1984 and special agent investigators hired before June 21, 1982.

2002 Entrants: Inland fisheries and wildlife officers and marine resources officers employed on and after August 31, 1984.

Eligibility: 25 years of creditable service in named positions.

Benefit: 1/50 of average final compensation multiplied by years of service.

Form of Payment: Life annuity.

Members in Special Plans who fail to qualify for Special Plan benefits can receive Regular Plan benefits when and as eligible and qualified.

v. Fire Marshals

Eligibility: 20 years of creditable service in named positions.

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

Form of Payment: Life annuity

Members in Special Plans who fail to qualify for Special Plan benefits can receive Regular Plan benefits when and as eligible and qualified.

vi. Minimum Service Retirement Benefit

\$100 per month

6. Disability Retirement Benefits Other Than No Age Benefits (See Item 7)

Eligibility: Disabled as defined in the MainePERS statutes prior to applicable normal retirement age, employed prior to October 16, 1992 and did not elect 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.

State Employee and Teacher Program Summary of Program and Plan Provisions

Form of Payment: Payment begins on termination of service and ceases on cessation of disability or after two years, unless the member is unable to engage in any substantially gainful activity, in which case payments cease on the earlier of ten years following normal retirement age or on 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 same rate as any cost-of-living adjustments for which the member is eligible (not subject to a cap) (see item 12). On the date when service benefits reach a level of 66⅔% of average final compensation or ten 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.

7. 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 on termination of service and ceases on cessation of disability or after two 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.

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 (not subject to a cap) (see item 12). 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.

8. 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 deceased member had retired under Option 2 (see item 13); however, beneficiary may elect survivor benefits payable to a surviving spouse, dependent children, parent, or other designated beneficiaries in monthly amounts varying by status of beneficiary and number of eligible survivors. Otherwise accumulated contributions with interest are payable to designated beneficiary, spouse, children, older parents, or estate.

9. 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 member's average final compensation until death.

State Employee and Teacher Program Summary of Program and Plan Provisions

- 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."

10. 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 date of termination, deferred to normal retirement age.

11. 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.

12. Cost-of-Living Adjustments

All service and disability retirement and survivor benefits 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 that portion of the benefit that is not in excess of a COLA cap whose value grows annually with the same adjustment as the COLA (see values below) for all benefits that have been in payment for at least twelve months as of that date. The maximum annual increase is 3%. Average final compensation used in determining disability benefits for disabled members is similarly adjusted for purposes of determining the recipient's service retirement benefit if and when the recipient moves to service retirement.

COLA Cap History: (value as of September 1 of listed year when COLA effective):

2014	\$20,000.00
2015	\$20,420.00
2016	\$20,940.71
2017	\$21,474.70
2018	\$21,818.30
2019	\$22,451.03
2020	\$22,810.25

Members who did not have ten years of service on July 1, 1993 will begin receiving cost-of-living adjustments at the later of 12 months after their normal retirement age and the first September 1 following a minimum of twelve months of being in receipt of their benefit.

State Employee and Teacher Program Summary of Program and Plan Provisions

13. 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.

14. Plan Changes since Prior Valuation

Fire marshal investigators and fire marshal sergeants were removed from the 1998 Special Plan to their own Special Plan with 20 years of service requirement for retirement.

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

State Employee and Teacher Program Actuarial Assumptions and Methods

A. Actuarial Assumptions

1. Annual Rate of Investment Return

State Employees	6.75%
Teachers	6.75%

Rate is net of both administrative and investment expense.

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

State Employees	2.20%
Teachers	2.20%

3. Annual Rate of Individual Salary Increase (% at Selected Years of Service)

Service	State Employees	Teachers
0	8.75%	14.50%
5	5.00%	5.75
10	3.75%	4.75
15	3.20%	4.00
20	2.95%	2.75
25 and over	2.75%	2.75

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

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

Service	State Employees and Teachers
0	33.50%
5	10.50
10	5.95
15	4.25
20	4.00
25	4.00

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 time of termination.

State Employee and Teacher Program
Actuarial Assumptions and Methods

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

(Showing values in 2020)

Age	State Employees		Teachers	
	Male	Female	Male	Female
50	40	31	38	26
55	57	42	54	35
60	77	61	73	50
65	109	94	104	77
70	169	150	161	124
75	275	247	262	204
80	463	417	441	344
85	808	741	769	611
90	1,440	1,339	1,371	1,105
95	2,298	2,227	2,188	1,838

Rates for State Employees are based on 104% and 120% of the RP-2014 Total Dataset Healthy Annuitant Mortality Table, respectively, for males and females, using the RP-2014 Total Dataset Employee Mortality Table for ages prior to start of the Healthy Annuitant Mortality Table, both projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020. Proposed rates for Teachers are based on 99% of the RP-2014 Total Dataset Healthy Annuitant Mortality Table for both males and females, using the RP-2014 Total Dataset Employee Mortality Table for ages prior to the start of the Healthy Annuitant Mortality Table, respectively, both projected using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020.

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

(Showing values in 2020)

Age	State Employees		Teachers	
	Male	Female	Male	Female
20	4	2	3	1
25	4	2	4	2
30	4	2	4	2
35	5	3	5	3
40	6	5	6	4
45	9	7	9	6
50	17	12	16	10
55	28	19	26	16
60	46	29	44	24
65	82	43	78	35

* For State Regular and Teachers 5% of deaths assumed to arise out of and in the course of employment; for State Special 20% of deaths are assumed to arise out of and in the course of employment.

Rates for State Employees are based on 104% and 120% of the RP-2014 Total Dataset Employee Mortality Table, respectively, for males and females, using the RP-2014 Total Dataset Healthy Annuitant Mortality Table rates after the end of the Total Employee Mortality Table, both projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020. Proposed rates for Teachers are based on 99% of the RP-2014

State Employee and Teacher Program Actuarial Assumptions and Methods

Total Dataset Healthy Annuitant Mortality Table for both males and females, using the RP-2014 Total Dataset Healthy Annuitant Mortality Table rates after the end of the Total Employee Mortality Table, respectively, both projected using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020.

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

(Showing values in 2020)

Age	State Employees		Teachers	
	Male	Female	Male	Female
25	80	23	80	23
30	77	30	77	30
35	91	41	91	41
40	109	57	109	57
45	170	89	170	89
50	208	117	208	117
55	240	147	240	147
60	273	175	273	175
65	326	212	326	212
70	422	289	422	289

Rates are based on 108% and 105% of the RP-2014 Total Dataset Disabled Annuitant Mortality Table, respectively, for males and females, projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020.

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

Teachers and State Regular Plans

Age	State Employees and Teachers		
	Tier 1	Tier 2	Tier 3
45	13	NA	NA
50	29	NA	NA
55	40	40	40
59	150	40	40
60	250	75	40
61	200	175	40
62	200	250	40
63	200	150	75
64	250	200	225
65	350	250	300
70	200	200	300
75	1,000	1,000	1,000

In the case of State Regular and Teacher employees, Tier 1 refers to those who had accrued at least 10 years of service by July 1, 1993. Tier 2 refers to those who had not accrued at least 10 years of service by July 1, 1993 or were hired after that date but had five years of service by July 1, 2011. Tier 3 refers to those who did not have five years of service by July 1, 2011. Rates are only applied for early retirement when the member is at least age 57. Earlier rates are applicable for normal retirement.

State Employee and Teacher Program Actuarial Assumptions and Methods

State Special Plans

Members of the 1998 Special Plan are assumed to retire at rates that vary by age and whether service is less than 25 years or not. Sample rates are as follows:

1998 Special Plan Retirement		
Age	Service < 25	Service >= 25
55	20.0%	25.0%
57	10.0	25.0
60	20.0	30.0
62	15.0	30.0
65	23.4	30.0
67	36.8	50.0
70	100.0	100.0

Members of the 25 & Out Plan are assumed to retire at rates that vary by service. Sample rates are as follows:

25 & Out Plan	
Service	Rate
< 24	0.0%
25 – 29	25.0%
30 – 34	50.0%
35+	100.0%

Members of State Special Plans other than the 25 & Out Plan and the 1998 Special Plan are all currently assumed to retire at a rate of 50% per year, beginning when they reach eligibility for unreduced benefits, with a 100% assumed rate at age 70. Rates are only applied when the member is at least age 50.

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

State Employees			
Age	Regular	Special	Teachers
25	5.0	5.4	2.1
30	6.1	6.5	2.3
35	9.3	9.9	2.3
40	14.8	15.8	3.1
45	22.8	24.4	7.0
50	34.0	36.4	10.9
55	39.9	42.6	14.9
60	43.4	46.4	18.8

* 10% assumed to receive Workers Compensation benefits offsetting disability benefit; also, current rates for State Special groups are higher by 7 per 10,000 at all ages.

10. 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; female spouse is assumed to be three years younger than 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.

State Employee and Teacher Program Actuarial Assumptions and Methods

11. Vacation/Sick Leave Credits

For members who had ten years of service on July 1, 1993, credits for unused vacation and sick leave may be used to increase final average compensation and/or creditable service. In order to reflect this, projected retirement benefits are increased by 0.48% for state (regular) employees and 0.75% for teachers for impacted members.

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 valuation date. Annual increases are applied as of the beginning of each subsequent valuation.

Member Contribution Interest Rate: 5% assumed for all future years

COLA Timing: September 1

Special Plan Member Contribution Rates: For members of Special Plans where the contribution rate drops from 8.65% to 7.65% after a given number of years, 8.65% is used for all years for valuation purposes as a simplifying assumption reflecting data limitations.

13. Rationale for Assumptions

The assumptions were adopted by the Board of Trustees at their July 14, 2016 meeting. The demographic assumptions adopted are based on an experience study covering the period from June 30, 2012 through June 30, 2015 and the economic assumptions are based on this experience study along with advice of the MainePERS investment consultants.

14. Changes since Last Valuation

None.

15. Rationale for Change in Actuarial Assumptions

N/A

B. Actuarial Methods

1. Funding Method

For the Plans in this Program, the funding methodology employed is the entry age normal funding method. Under this method, there are two components to the total contribution: the normal cost rate (NC rate), and the unfunded actuarial liability rate (UAL rate). Both of these rates are developed for each Plan within the Program, consisting of the Teacher Program, the State Regular Plan, and several State Special Plans.

For each Plan in the Program, 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 benefit. Second, this value is then divided by the value, also at entry age, of the member's expected future salary. Finally, the rate is reduced by the member contribution rate to produce the employer normal contribution rate. 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 and then divided by the total payroll at the valuation for the Plan to get the normal cost rate for that Plan. This process results in specific normal cost rates for each of the Plans in the Program.

State Employee and Teacher Program Actuarial Assumptions and Methods

The unfunded actuarial liability under the entry age normal funding method equals the present value, at the time of valuation, of the future benefit payments less the present value of future employer normal cost contributions, future member contributions, future UAL payments, and current assets. The UAL rate determined is the percentage that applied to member payroll is expected to amortize the UAL according to the Program's amortization policy. Specifically, the remaining original UAL has 8 years of its prescribed amortization period remaining and all other gains and losses are amortized over twenty-year periods beginning on the date as of which they occur.

2. Asset Valuation Method

For purposes of determining the employer contributions to the Program and the Program's funded ratio, 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 cash flow for the year and imputed returns at the actuarial assumption. This expected value is compared to the market value and one-third of the difference is added to the preliminary actuarial value to arrive at the final actuarial value.

3. Changes since Last Valuation

None.

4. Rationale for Change

N/A

Consolidated Plan for Participating Local Districts Summary of Program and Plan Provisions

Consolidated Plan for Participating Local Districts

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 reports 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.

Eligibility for Members not in Active Service at Retirement and not in Active Service on or after October 1, 1999: At least ten 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.

Consolidated Plan for Participating Local Districts Summary of Program and Plan Provisions

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.

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)).

Consolidated Plan for Participating Local Districts Summary of Program and Plan Provisions

Special Plan 1C

Eligibility: 20 years of creditable service in named positions.

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.

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.

Consolidated Plan for Participating Local Districts Summary of Program and Plan Provisions

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

1. 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.
2. Service in all Special Plans counts, on a percentage basis, toward meeting the benefit eligibility requirements of any Special Plan.
3. 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 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 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 ten 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 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 ten 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 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.

Consolidated Plan for Participating Local Districts Summary of Program and Plan Provisions

Form of Payment: Payment begins upon 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.

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 date.

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

8. Pre-Retirement Accidental Death Benefits

Eligibility: Death while active or disabled resulting from 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 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."

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 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 5 years of creditable service.

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

Consolidated Plan for Participating Local Districts Summary of Program and Plan Provisions

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 are effective September 1 and are applied to all benefits 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.

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.

Consolidated Plan for Participating Local Districts Summary of Program and Plan Provisions

13. Plan Changes since Prior Valuation

Three formerly withdrawn Participating Local Districts (PLDs) elected to re-enter the Consolidated Plan this year. The liability increase identified as a plan change represents the liability being transferred back into this Plan and is mostly offset by assets transferred in as well. The difference between the asset and liability transfer will be paid for by one of the PLDs as an IUUAL amount.

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.

Consolidated Plan for Participating Local Districts
Actuarial Assumptions and Methods

A. Actuarial Assumptions

1. Annual Rate of Investment Return

PLDs	6.75%
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Rate is net of both administrative and investment expense.

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

PLDs	1.91%
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3. Sample Rates of Individual Salary Increases (% at Selected Years of Service)

Years of Service	Disability Rate
0	9.00%
1	4.80
2	3.60
3	3.10
4	2.75
5	2.75
10	2.75
15	2.75
20	2.75
25	2.75
30	2.75

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

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

Service	Regular	Special
0	25.0%	25.0%
1	20.0	12.5
2	15.0	10.0
3	12.0	7.5
4	10.0	5.0
5	9.0	4.0
10	6.0	2.5
15	4.0	2.5
20	2.5	2.5

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 time of termination.

Consolidated Plan for Participating Local Districts
Actuarial Assumptions and Methods

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

(Showing values in 2020)

Age	Male	Female
50	40	31
55	57	42
60	77	61
65	109	94
70	169	150
75	275	247
80	463	417
85	808	741
90	1,440	1,339
95	2,298	2,227

Rates are based on 104% and 120% of the RP-2014 Total Dataset Healthy Annuitant Mortality Table, respectively, for males and females, using the RP-2014 Total Dataset Employee Mortality Table for ages prior to start of the Healthy Annuitant Mortality Table, both projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85 grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020.

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

(Showing values in 2020)

Age	Male	Female
20	4	2
25	4	2
30	4	2
35	5	3
40	6	5
45	9	7
50	17	12
55	28	19
60	46	29
65	82	43

* 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 104% and 120% of the RP-2014 Total Dataset Employee Mortality Table, respectively, for males and females, using the RP-2014 Total Dataset Healthy Annuitant Mortality Table rates after the end of the Total Employee Mortality Table, both projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020.

Consolidated Plan for Participating Local Districts
Actuarial Assumptions and Methods

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

(Showing values in 2020)

Age	Male	Female
25	80	23
30	77	30
35	91	41
40	109	57
45	170	89
50	208	117
55	240	147
60	273	175
65	326	212
70	422	289

Rates are based on 108% and 105% of the RP-2014 Total Dataset Disabled Annuitant Mortality Table, respectively, for males and females, projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20–85, grading down to an ultimate rate of 0.00% for ages 111–120, and convergence to the ultimate rate in the year 2020.

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

Regular Plans

Age	Tier 1	Tier 2
45	50	50
50	50	50
55	50	50
60	200	50
65	250	200
70	1,000	1,000

In the case of PLD employees, Tier 1 refers to those who were hired prior to July 1, 2014, and Tier 2 refers to those who were hired on or after July 1, 2014.

Service	Special Plans
20	400
21 – 24	300
25	400
26 – 29	300
30	400
31 – 34	300
35+	1,000

Note that the 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.

Consolidated Plan for Participating Local Districts
Actuarial Assumptions and Methods

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

Age	Revised Assumption
25	1.8
30	2.4
35	3.0
40	4.2
45	9.0
50	19.8
55	36.6
60	65.0

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

10. 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; female spouse is assumed to be three years younger than 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.

11. 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 valuation date. Annual increases are applied as of the beginning of each subsequent valuation.

Member Contribution Interest Rate: 5% assumed for all future years

COLA Timing: September 1

Member Contribution Rates: For purposes of developing liability amounts, the member contribution rates in effect for FY 2020 are assumed to continue for all periods in the future.

12. Rationale for Assumptions:

The assumptions were adopted by the Board of Trustees at their July 14, 2016 meeting. The demographic assumptions adopted are based on an experience study covering the period from June 30, 2012 through June 30, 2015 and the economic assumptions are based on this experience study along with advice of the MainePERS investment consultants.

13. Changes since Last Valuation:

None.

14. Rationale for Change in Actuarial Assumptions:

N/A.

Consolidated Plan for Participating Local Districts Actuarial Assumptions and Methods

B. Actuarial Methods

1. Funding Method

The entry age normal actuarial funding 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 funding method, the Actuarially 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 funding 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.

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.

2. Asset Valuation Method

For purposes of determining PLD contribution to the Plan and the Plan's funding 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 cash flow for the year and imputed returns at the actuarial assumption. This expected value is compared to the market value and one-third of the difference is added to the preliminary actuarial value to arrive at the final actuarial value.

3. Changes since Last Valuation

None.

Judicial Retirement Program Summary of Program and Plan Provisions

Judicial Retirement Program

1. Membership

Membership is a condition of employment for all judges serving on or after December 1, 1984.

Membership ceases on the earlier of withdrawal of contributions, retirement, or death.

Judges who retired prior to December 1, 1984 are covered under a different program.

2. Member Contributions

Members are required to contribute 7.65% of earnable compensation. Member contributions earn annual interest at the rate adopted by the Board of Trustees each February.

3. 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.

For active judges as of July 1, 2003, July 1, 2004, and July 1, 2010, average final compensation shall be increased to reflect missed salary increases.

4. Creditable Service

Creditable service includes the following:

- A. All judicial service as a member after November 30, 1984;
- B. All judicial service before December 1, 1984;
- C. Service credited while receiving disability benefits under the Program; and
- D. All service creditable under the State Employee and Teacher Program provided the member elects to have the member's and the employer's contributions on behalf of such service transferred to the Judicial Program.

5. Service Retirement Benefits

Eligibility:

A. Eligibility for Members with at Least Ten Years of Creditable Service on July 1, 1993

- i. Eligibility for members in active service and inactive members:
25 years of creditable service.
- ii. Eligibility alternative for members in active service:
Attainment of age 70 with at least one year of service immediately before retirement.
- iii. Eligibility for members not in active service at retirement and not in active service on or after October 1, 1999:
Attainment of age 60 and ten years of creditable service.

Judicial Retirement Program Summary of Program and Plan Provisions

- iv. Eligibility for members not in active service at retirement, but in active service on or after October 1, 1999:
Attainment of age 60 and five years of creditable service.

B. Eligibility for Members with Less Than Ten Years of Creditable Service on July 1, 1993

- i. Eligibility for members in active service and inactive members:
25 years of creditable service.
- ii. Eligibility alternative for members in active service:
Attainment of age 70 with at least one year of service immediately before retirement.
- iii. Eligibility for members not in active service at retirement and not in active service on or after October 1, 1999:
Attainment of age 62 with ten years of creditable service.
- iv. Eligibility for members in active service on or after October 1, 1999:
Attainment of age 62 and five years of creditable service.

C. Eligibility for Members with Less Than Five Years of Creditable Service on July 1, 2011

- i. Eligibility for members in active service and inactive members:
25 years of creditable service.
- ii. Eligibility alternative for members in active service:
Attainment of age 70 with at least one year of service immediately before retirement.
- iii. Eligibility for members not in active service at retirement and not in active service on or after October 1, 1999:
Attainment of age 65 with ten years of creditable service.
- iv. Eligibility for members in active service on or after October 1, 1999:
Attainment of age 65 and five years of creditable service.

Benefit Sum of:

- (1) for service after November 30, 1984 and before July 1, 1998 and creditable service allowed under Section 1302(3), 2% of average final compensation multiplied by years of service;
- (2) for service on or after July 1, 1998, 3% of average final compensation multiplied by years of service; and,
- (3) for judicial service prior to December 1, 1984, 75% of November 30, 1984 salary for the position held at retirement, pro-rated for prior service less than ten years.

The benefit is reduced for retirement before age 60 at the approximate rates listed in the table below, for members with at least ten years creditable service on July 1, 1993.

Judicial Retirement Program Summary of Program and Plan Provisions

Age	Reduction	Age	Reduction
45	29.3%	53	16.6%
46	28.0	54	14.6
47	26.6	55	12.5
48	25.2	56	10.3
49	23.6	57	7.9
50	22.0	58	5.4
51	20.3	59	2.8
52	18.5	60	0.0

The benefit is reduced for retirement before age 62 by 6% for each year the member's age is less than age 62, if less than ten years creditable service on July 1, 1993, but at least five years creditable service on July 1, 2011.

The benefit is reduced for retirement before age 65 by 6% for each year the member's age is less than age 65, if less than five years creditable service on July 1, 2011.

Maximum Benefit: Total benefit cannot exceed 70% of average final compensation except as provided under the minimum benefit provision.

Minimum Benefit: For a judge in service and age 50 or older on December 1, 1984, 75% of salary on June 30, 1984 for the position held at retirement, increased by 6% per year from June 30, 1984 to June 30, 1989 or retirement date if earlier, and increased beyond June 30, 1989 by the cost of living increase granted the previous September.

Form of Payment: Life annuity; except, for a judge in service and age 50 before December 1, 1984, 50% joint and survivor annuity to surviving spouse.

6. Disability Retirement Benefits Other Than No Age Benefits (See Item 7)

Eligibility: Disabled as defined in the Judicial Retirement Program statutes prior to normal retirement age, employed prior to October 16, 1992 and did not elect the No Age Disability Option, 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 on termination of service and ceases on cessation of disability or after two years, unless the member is unable to engage in any substantially gainful activity, in which case payments cease on the earlier of age 70 and the date that the service retirement benefit exceeds the disability benefit.

Conversion to Service Retirement: During the period of disability, service is credited and average final compensation is increased at same rate as any cost-of-living adjustments for which the member is eligible (not subject to a cap) (see item 12). On the date when service benefits reach a level of 66⅔% of average final compensation or at age 70, if earlier, the disability converts to a service retirement benefit based on service and average final compensation at that time.

7. No Age Disability Retirement Benefits

Eligibility: Disabled as defined in the Judicial Retirement Program 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.

Judicial Retirement Program Summary of Program and Plan Provisions

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. A member in service on November 30, 1984 may elect benefits applicable for retirement before December 1, 1984.

Form of Payment: Payment begins on termination of service and ceases on cessation of disability or after two 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.

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 (not subject to a cap) (see item 12). 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.

8. 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 deceased member had retired under Option 2 (see item 13); however, beneficiary may elect survivor benefits payable to a surviving spouse, dependent children, parent, or other designated beneficiaries in monthly amounts varying by status of beneficiary and number of eligible survivors. Otherwise accumulated contributions with interest are payable to designated beneficiary, spouse, children, older parents, or estate.

Minimum Benefit: For a judge in service prior to December 1, 1984, one-half of the judge's retirement benefit determined on date of death, payable to the spouse and/or dependent children.

9. 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 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".

10. 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 date of termination, deferred to normal retirement age.

Judicial Retirement Program Summary of Program and Plan Provisions

11. 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.

12. Cost-of-Living Adjustments

All service and disability retirement and survivor benefits 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 that portion of the benefit that is not in excess of a COLA cap whose value grows annually with the same adjustment as the COLA (see values below) for all benefits that have been in payment for at least twelve months as of that date. The maximum annual increase is 3%. Average final compensation used in determining disability benefits for disabled members is similarly adjusted for purposes of determining the recipient's service retirement benefit if and when the recipient moves to service retirement.

COLA Cap History: (value as of September 1 of listed year when COLA effective):

2014	–	\$20,000.00
2015	–	\$20,420.00
2016	–	\$20,940.71
2017	–	\$21,474.70
2018	–	\$21,818.30
2019	–	\$22,451.03
2020	–	\$22,810.25

Members who did not have ten years of service on July 1, 1993 will begin receiving cost-of-living adjustments at the latter of 12 months after their normal retirement age and the first September 1 following a minimum of twelve months of being in receipt of their benefit.

Minimum benefits are increased 6% per year from July 1985 through June 1989, and as described above thereafter.

13. 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.

Judicial Retirement Program Summary of Program and Plan Provisions

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.

14. Program Changes since Prior Valuation

None.

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

Judicial Retirement Program Actuarial Assumptions and Methods

A. Actuarial Assumptions

1. Annual Rate of Investment Return

Judicial	6.75%
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Rate is net of both administrative and investment expense.

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

Judicial	2.20%
-----------------	-------

3. Annual Rate of Individual Salary Increase:

Judicial	2.75%
-----------------	-------

4. Sample Rates of Termination (% at Selected Ages)

Age	Termination Rate
25	7%
30	6
35	5
40	4
45	3
50	2
55	1

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 time of termination.

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

Showing values in 2020		
Age	Male	Female
50	40	31
55	57	42
60	77	61
65	109	94
70	169	150
75	275	247
80	463	417
85	808	741
90	1,440	1,339
95	2,298	2,227

Rates are based on 104% and 120% of the RP-2014 Total Dataset Healthy Annuitant Mortality Table, respectively, for males and females, using the RP-2014 Total Dataset Employee Mortality Table for ages prior to start of the Healthy Annuitant Mortality Table, both projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85 grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020.

Judicial Retirement Program
Actuarial Assumptions and Methods

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

Showing values in 2020

Age	Male	Female
20	4	2
25	4	2
30	4	2
35	5	3
40	6	5
45	9	7
50	17	12
55	28	19
60	46	29
65	82	43

* 5% of deaths assumed to arise out of and in the course of employment

Rates are based on 104% and 120% of the RP-2014 Total Dataset Employee Mortality Table, respectively, for males and females, using the RP-2014 Total Dataset Healthy Annuitant Mortality Table rates after the end of the Total Employee Mortality Table, both projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020.

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

Showing values in 2020

Age	Male	Female
25	80	23
30	77	30
35	91	41
40	109	57
45	170	89
50	208	117
55	240	147
60	273	175
65	326	212
70	422	289

Rates are based on 108% and 105% of the RP-2014 Total Dataset Disabled Annuitant Mortality Table, respectively, for males and females, projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020.

Judicial Retirement Program Actuarial Assumptions and Methods

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

Age	Tier 1	Tier 2	Tier 3
60–61	1,000	NA	NA
62–64	1,000	500	NA
65–69	1,000	500	500
70–74	1,000	500	500
75+	1,000	1,000	1,000

In the case of judicial employees, Tier 1 refers to those who had accrued at least 10 years of service by July 1, 1993. Tier 2 refers to those who had not accrued at least 10 years of service by July 1, 1993 or were hired after that date but had five years of service by July 1, 2011. Tier 3 refers to those who did not have five years of service by July 1, 2011.

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

Age	Disability Rate
25	0%
30	0
35	0
40	0
45	0
50	0
55	0
60	0

10. 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; female spouse is assumed to be three years younger than 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.

11. 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 valuation date. Annual increases are applied as of the beginning of each subsequent valuation.

Member Contribution Interest Rate: 5% assumed for all future years

COLA Timing: September 1

12. Rationale for Actuarial Assumptions

The assumptions were adopted by the Board of Trustees at their July 14, 2016 meeting. The demographic assumptions adopted are based on an experience study covering the period from June 30, 2012 through June 30, 2015 and the economic assumptions are based on this experience study along with advice of the MainePERS investment consultants. The Board continuously reviews the investment return assumption and adopted a reduced rate of 6.75% effective with the 2018 valuation, at the advice of its investment consultant.

Judicial Retirement Program Actuarial Assumptions and Methods

13. Changes since Last Valuation

None.

14. Rationale for Change in Actuarial Assumptions

N/A.

B. Actuarial Methods

1. Funding Method

The entry age normal actuarial funding method is used to determine costs. Under this funding method, the total employer contribution rate consists of two elements: the employer normal cost rate and the unfunded actuarial liability (UAL) rate.

Under this method, the actuarial present value of the projected benefits of each active included in the valuation is allocated on a level basis over the earnings of the individual between entry age and assumed exit age(s). The portion of this actuarial present value allocated to the year beginning on the valuation date is called the normal cost. For each active, the normal cost is determined by taking the value, as of entry age into the Program, of the member's projected benefits, reduced by the value of future member contributions, and then dividing it by the value, also as of the member's entry age, of the member's expected future salary. This rate is then multiplied by the member's salary at the valuation date to produce the normal cost for each member, which are then aggregated across all members to get the total normal cost for the Program. This total normal cost is then divided by the total salary for the Program at the valuation date to get the normal cost rate for the Program.

The portion of the actuarial present value not provided for at the valuation date by the actuarial present value of the future normal costs is called the actuarial liability. The unfunded actuarial liability is defined as the total actuarial liability at the valuation date less the actuarial value of the Program's assets at the valuation date. Contributions are made to fund this unfunded actuarial liability (UAL). The UAL rate for this Program is developed by amortizing the unfunded liability over an open ten-year period, assuming these amortization payments increase over the previous year at a rate of 2.75% per year. The resulting amortization for the year beginning on the valuation date is then divided by the total payroll for the Program to develop the UAL rate.

The total rate for the Program is produced by adding the normal cost rate and the UAL rate, subject to the requirement that the total rate cannot be less than 0%.

By using an open amortization period, this funding method results in the expectation that any unfunded liability in the Program as of a valuation date will never be fully reduced to zero if all of the valuation assumptions are exactly met.

2. Asset Valuation Method

For purposes of determining the State contribution to the Program and the Program's funded ratio, 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 cash flow for the year and imputed returns at the actuarial assumption. This expected value is compared to the market value and one-third of the difference is added to the preliminary actuarial value to arrive at the final actuarial value.

3. Changes since Last Valuation

None.

Legislative Retirement Program Summary of Program and Plan Provisions

Legislative Retirement Program

1. Membership

Except as provided by statute, membership is mandatory for every legislator in service in the Legislature on or after December 3, 1986, and optional for those who were members of the Retirement System on December 2, 1986.

Membership ceases on the earlier of withdrawal of contributions, retirement, or death.

2. Member Contributions

Members are required to contribute 7.65% of earnable compensation. Member contributions earn annual interest at the rate adopted by the Board of Trustees each February.

3. 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.

4. Creditable Service

Creditable service includes the following:

A. All legislative service as a member after December 2, 1986;

B. All legislative service before December 3, 1986, for which contributions have been made to the Retirement System at the applicable rate, including appropriate interest;

C. Service credited while receiving disability benefits under the Program; and

D. All service creditable under the Retirement System as a State Employee provided the member elects to have the member's and the employer's contributions on behalf of such service transferred to the Legislative Program.

5. Service Retirement Benefits

Eligibility:

A. Eligibility for Members with at Least Ten Years of Creditable Service on July 1, 1993

- i. Eligibility for members in active service and inactive members:
25 years of creditable service.
- ii. Eligibility alternative for members in active service:
Attainment of age 60.
- iii. Eligibility for members not in active service at retirement, and not in active service on or after October 1, 1999:
Attainment of age 60 and ten years of creditable service.
- iv. Eligibility for members not in active service at retirement, but in active service on or after October 1, 1999:
Attainment of age 60 and five years of creditable service.

Legislative Retirement Program Summary of Program and Plan Provisions

B. Eligibility for Members with Less Than Ten Years of Creditable Service on July 1, 1993

- i. Eligibility for members in active service and inactive members:
25 years of creditable service.
- ii. Eligibility alternative for members in active service:
Attainment of age 62.
- iii. Eligibility for members not in active service at retirement, and not in active service on or after October 1, 1999:
Attainment of age 62 with ten years of creditable service.
- iv. Eligibility for members not in active service at retirement, but in active service on or after October 1, 1999:
Attainment of age 62 and five years of creditable service.

C. Eligibility for Members with Less Than Five Years of Creditable Service on July 1, 2011

- i. Eligibility for members in active service and inactive members:
25 years of creditable service.
- ii. Eligibility alternative for members in active service:
Attainment of age 65.
- iii. Eligibility for members not in active service at retirement, and not in active service on or after October 1, 1999:
Attainment of age 65 with ten years of creditable service.
- iv. Eligibility for members not in active service at retirement, but in active service on or after October 1, 1999:
Attainment of age 65 and five years of creditable service.

Benefit: 1/50 of average final compensation multiplied by years of creditable service.

The benefit is reduced for retirement before age 60 at the approximate rates listed in the table below, for members with at least ten years creditable service on July 1, 1993.

Age	Reduction	Age	Reduction
45	29.3%	53	16.6%
46	28.0	54	14.6
47	26.6	55	12.5
48	25.2	56	10.3
49	23.6	57	7.9
50	22.0	58	5.4
51	20.3	59	2.8
52	18.5	60	0.0

The benefit is reduced for retirement before age 62 by 6% for each year the member’s age is less than age 62, if less than ten years creditable service on July 1, 1993, but at least five years creditable service on July 1, 2011.

The benefit is reduced for retirement before age 65 by 6% for each year the member’s age is less than age 65, if less than five years creditable service on July 1, 2011.

Legislative Retirement Program Summary of Program and Plan Provisions

Minimum benefit \$100 per month if at least ten years of creditable service.

Form of Payment: Life annuity.

6. Disability Retirement Benefits Other Than No Age Benefits (See Item 7)

Eligibility: Disabled as defined in the Legislative Retirement Program statutes prior to normal retirement age, employed prior to October 16, 1992 and did not elect No Age Disability Option, 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 on termination of service and ceases on cessation of disability or after two years, unless the member is unable to engage in any substantially gainful activity, in which case payments cease on the earlier of ten years following normal retirement age and 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 same rate as any cost-of-living adjustments for which the member is eligible (not subject to a cap) (see item 12). On the date when service benefits reach a level of 66⅔% of average final compensation or ten 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.

7. No Age Disability Retirement Benefits

Eligibility: Disabled as defined in the Legislative Retirement Program 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 on termination of service and ceases on cessation of disability or after two 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.

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 (not subject to a cap) (see item 12). 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.

8. 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 deceased member had retired under Option 2 (see item 13); however, beneficiary may elect survivor benefits payable to a surviving spouse, dependent children, parent, or other designated beneficiaries in monthly amounts varying by status of beneficiary and number of eligible survivors. Otherwise accumulated contributions with interest are payable to designated beneficiary, spouse, children, older parents, or estate.

Legislative Retirement Program Summary of Program and Plan Provisions

9. 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 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".

10. 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 date of termination, deferred to normal retirement age.

11. 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.

12. Cost-of-Living Adjustments

All service and disability retirement and survivor benefits 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 that portion of the benefit that is not in excess of a COLA cap whose value grows annually with the same adjustment as the COLA (see values below) for all benefits that have been in payment for at least twelve months as of that date. The maximum annual increase is 3%. Average final compensation used in determining disability benefits for disabled members is similarly adjusted for purposes of determining the recipient's service retirement benefit if and when the recipient moves to service retirement.

Legislative Retirement Program Summary of Program and Plan Provisions

COLA Cap History: (value as of September 1 of listed year when COLA effective):

2014	–	\$20,000.00
2015	–	\$20,420.00
2016	–	\$20,940.71
2017	–	\$21,474.70
2018	–	\$21,818.30
2019	–	\$22,451.03
2020	–	\$22,810.25

Members who did not have ten years of service on July 1, 1993 will begin receiving cost of living adjustments at the latter of 12 months after their normal retirement age and the first September 1 following a minimum of twelve months of being in receipt of their benefit.

13. 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.

14. Program Changes since Prior Valuation

None.

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

Legislative Retirement Program
Actuarial Assumptions and Methods

A. Actuarial Assumptions

1. Annual Rate of Investment Return

Legislative	6.75%
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Rate is net of both administrative and investment expense.

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

Legislative	2.20%
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3. Annual Rate of Individual Salary Increase

Legislative	2.75%
-------------	-------

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

Service	Termination Rate
0	0%
1	0
2	30
3	30
4	25
5	25
6	10
7	10
8	50
9	50
10	25
11	25
12	25
13	25
14	25
15	25
16+	50

The rates shown are only applicable in the fiscal years ending in odd years while zero terminations are assumed in the fiscal years ending in even years.

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 time of termination.

Legislative Retirement Program
Actuarial Assumptions and Methods

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

Showing values in 2020

Age	Male	Female
50	40	31
55	57	42
60	77	61
65	109	94
70	169	150
75	275	247
80	463	417
85	808	741
90	1,440	1,339
95	2,298	2,227

Rates are based on 104% and 120% of the RP-2014 Total Dataset Healthy Annuitant Mortality Table, respectively, for males and females, using the RP-2014 Total Dataset Employee Mortality Table for ages prior to start of the Healthy Annuitant Mortality Table, both projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85 grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020.

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

Showing values in 2020

Age	Male	Female
20	4	2
25	4	2
30	4	2
35	5	3
40	6	5
45	9	7
50	17	12
55	28	19
60	46	29
65	82	43

* 5% of deaths assumed to arise out of and in the course of employment

Rates are based on 104% and 120% of the RP-2014 Total Dataset Employee Mortality Table, respectively, for males and females, using the RP-2014 Total Dataset Healthy Annuitant Mortality Table rates after the end of the Total Employee Mortality Table, both projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0.00% for ages 111-120, and convergence to the ultimate rate in the year 2020.

Legislative Retirement Program
Actuarial Assumptions and Methods

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

Showing values in 2020

Age	Male	Female
25	80	23
30	77	30
35	91	41
40	109	57
45	170	89
50	208	117
55	240	147
60	273	175
65	326	212
70	422	289

Rates are based on 108% and 105% of the RP-2014 Total Dataset Disabled Annuitant Mortality Table, respectively, for males and females, projected from the 2006 base rates using the RPEC_2015 model, with an ultimate rate of 0.85% for ages 20–85, grading down to an ultimate rate of 0.00% for ages 111–120, and convergence to the ultimate rate in the year 2020.

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

Age	Fiscal Years Ending Even	Fiscal Years Ending Odd
57–69	0	250
70+	0	1,000

Note that the all retirement rates are only applied once the member is eligible to retire, so those in with 62 or 65 normal retirement ages are not assumed to retire until eligible. No retirements are assumed prior to age 57, regardless of service amount.

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

Age	Disability Rate
25	0
30	0
35	0
40	0
45	0
50	0
55	0
60	0

10. 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; female spouse is assumed to be three years younger than 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.

Legislative Retirement Program Actuarial Assumptions and Methods

11. 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 valuation date. Annual increases are applied as of the beginning of each subsequent valuation.

Member Contribution Interest Rate: 5% assumed for all future years

COLA Timing: September 1

12. Rationale for Actuarial Assumptions

The assumptions were adopted by the Board of Trustees at their July 14, 2016 meeting. The demographic assumptions adopted are based on an experience study covering the period from June 30, 2012 through June 30, 2015 and the economic assumptions are based on this experience study along with advice of the MainePERS investment consultants. The Board continuously reviews the investment return assumption and adopted a reduced rate of 6.75% effective with the 2018 valuation, at the advice of its investment consultant.

13. Changes since Last Valuation

None.

14. Rationale for Change in Actuarial Assumptions

N/A.

B. Actuarial Methods

1. Funding Method

The entry age normal actuarial funding method is used to determine costs. Under this funding method, the total employer contribution rate consists of two elements: the employer's normal cost rate and the unfunded actuarial liability (UAL) rate.

Under this method, the actuarial present value of the projected benefits of each active included in the valuation is allocated on a level basis over the earnings of the individual between entry age and assumed exit age(s). The portion of this actuarial present value allocated to the year beginning on the valuation date is called the normal cost. For each active, the normal cost is determined by taking the value, as of entry age into the Program, of the member's projected benefits, reduced by the value of future member contributions, and then dividing it by the value, also as of the member's entry age, of the member's expected future salary. This rate is then multiplied by the member's salary at the valuation date to produce the normal cost for each member, which are then aggregated across all members to get the total normal cost for the Program. This total normal cost is then divided by the total salary for the Program at the valuation date to get the normal cost rate for the Program.

The portion of the actuarial present value not provided for at the valuation date by the actuarial present value of the future normal costs is called the actuarial liability. The unfunded actuarial liability is defined as the total actuarial liability at the valuation date less the actuarial value of the Program's assets at the valuation date. Contributions are made to fund this unfunded actuarial liability (UAL). The UAL rate for this Program is developed by amortizing the unfunded liability over an open ten-year period, assuming these amortization payments increase over the previous year at a rate of 2.75% per year. The resulting amortization for the year beginning on the valuation date is then divided by the total payroll for the Program to develop the UAL rate.

The total rate for the Program is produced by adding the normal cost rate and the UAL rate, subject to the requirement that the total rate cannot be less than 0%.

Legislative Retirement Program Actuarial Assumptions and Methods

By using an open amortization period, this funding method results in the expectation that any unfunded liability in the Program as of a valuation date will never be fully reduced to zero if all of the valuation assumptions are exactly met.

2. Asset Valuation Method

For purposes of determining the State contribution to the Program and the Program's funded ratio, 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 cash flow for the year and imputed returns at the actuarial assumption. This expected value is compared to the market value and one-third of the difference is added to the preliminary actuarial value to arrive at the final actuarial value.

3. Changes since Last Valuation

None.

Retiree Group Life Insurance Summary of Plan Provisions

Membership

Service Retirement:	A retiree must have participated in the group life insurance program for at least ten years and possess coverage just prior to retirement.
Disability Retirement:	An employee must have participated in the group life insurance program immediately prior to disablement.

Basic Insurance

Average final compensation calculated for retirement purposes.

Amount of Insurance for a Retiree

Service Retirement:	The Basic Insurance will be reduced by 15% per year until the amount equal to the greater of (a) 40% of the initial Basic Insurance, or (b) \$2,500.
Disability Retirement:	The amount of basic life insurance in force prior to retirement will be continued until normal retirement age. At normal retirement age, the amount of insurance will be reduced as for service retirement.

Retiree Contribution

State Employees:	None
Teachers:	None
Judges:	None
Legislators:	None
PLD:	PLD must pay \$0.21 biweekly per \$1,000 of base benefit, based on the coverage amounts declining from 100% to 40%. Biweekly rates increase to \$0.22 in FYE 2022, \$0.23 in FYE 2024, and \$0.24 in FYE 2026.

Normal Retirement Age

The specified age, the years of service requirement or any age and years of service combination at which a participant may become eligible for unreduced service retirement benefits.

Discontinued Coverages at Retirement

- Supplemental Life
- Accidental Death and Dismemberment
- Dependent Life

(Discontinued coverage may be ported to another group term product or converted to an individual policy. MainePERS is charged a fee for those active employees who convert to an individual policy upon termination from employment. Conversion charges are considered a cost of active, not retiree group life insurance. Therefore, it is not included in these liabilities.)

Retiree Group Life Insurance Assumptions and Methods

Economic Assumptions

Valuation Date: June 30, 2020

State Sponsored Plans Beginning of Year Investment Return: 6.75% per year

State Sponsored Plans End of Year Investment Return: 6.75% per year

PLD GASB Beginning of Year Investment Return: 4.98% per year

PLD GASB End of Year Investment Return: 6.75% per year

Cost-of-Living Increases in Life Benefits: N/A. Unlike pension benefits, Life Benefits do not increase with Cost of Living.

Premium Expense Assumption: To reflect administrative expenses associated with the distribution of benefits, the following loads, determined in the 2020 Premium Study, have been added to the liabilities, normal cost, and benefit payments.

State Employees, Judges and Legislators: 9.84%

Teachers: 16.51%

Participating Local Districts: 9.36% of claims

Conversion Charges: Applies to the cost of active group life insurance, not retiree group life insurance.

Form of Benefit Payment: Lump Sum.

Other Assumptions and Methods

All other assumptions and methods match those used for the pension valuation as of June 30, 2020.

Statistical Section



Marshall Lighthouse, Port Clyde

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Maine Public Employees Retirement System Statistical Section (Unaudited)

This section of the Maine Public Employees Retirement System's Comprehensive Annual Financial Report presents detailed information as a context for understanding this year's financial statements, note disclosures, and supplementary information. This information has not been audited by the independent auditor.

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Defined Benefit Plan
Changes in Fiduciary Net Position – State Employee and Teacher Plan
Last Ten Fiscal Years

	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions										
Member contributions	\$ 151,438,849	\$ 146,019,051	\$ 140,844,879	\$ 139,464,284	\$ 125,523,986	\$ 123,528,807	\$ 121,033,152	\$ 121,059,118	\$ 121,071,499	\$ 124,356,773
Employer contributions	225,468,763	218,530,934	211,251,144	211,037,365	199,212,719	173,935,492	162,920,147	136,937,972	125,839,206	184,423,671
Non-employer entity contributions	174,530,364	132,980,832	129,421,735	116,080,164	112,477,836	147,283,716	142,303,104	126,762,206	126,343,975	148,728,049
Investment Income (net of expenses)	354,272,725	768,987,130	1,077,827,555	1,256,043,735	40,540,758	191,829,057	1,517,432,346	929,806,764	43,821,836	1,583,183,960
Transfer from other funds	-	-	-	-	-	-	-	-	-	-
Total additions to fiduciary net position	905,710,701	1,266,517,947	1,559,345,313	1,722,625,548	477,755,299	636,577,072	1,943,688,749	1,314,566,060	417,076,516	2,040,692,453
Deductions										
Benefit payments	863,977,621	832,934,948	792,397,467	762,449,708	727,717,177	703,292,105	667,506,634	651,525,831	612,512,717	574,135,970
Refunds	18,841,863	18,718,610	17,984,303	17,876,272	16,806,566	19,432,153	21,684,397	17,891,255	21,024,589	20,747,236
Administrative expenses	11,343,928	11,180,852	10,076,242	9,216,027	8,649,030	9,386,695	8,246,740	7,651,938	7,268,110	7,553,424
Transfer to other funds	2,193,752	311,233	-	124,178	6,342,010	-	-	-	-	-
Total deductions from fiduciary net position	896,357,164	863,145,643	820,458,012	789,666,185	759,514,783	732,110,953	697,437,771	677,069,024	640,805,416	602,436,630
Change in fiduciary net position	\$ 9,353,537	\$ 403,372,304	\$ 738,887,301	\$ 932,959,363	\$ (281,759,484)	\$ (95,533,881)	\$ 1,246,250,978	\$ 637,497,036	\$ (223,728,900)	\$ 1,438,255,823
Fiduciary Net Position										
Beginning of Year	\$ 12,035,565,075	\$ 11,632,192,771	\$ 10,893,305,470	\$ 9,960,346,107	\$ 10,242,105,591	\$ 10,337,639,472	\$ 9,091,388,494	\$ 8,453,891,458	\$ 8,677,620,358	\$ 7,239,364,535
End of Year	\$ 12,044,918,612	\$ 12,035,565,075	\$ 11,632,192,771	\$ 10,893,305,470	\$ 9,960,346,107	\$ 10,242,105,591	\$ 10,337,639,472	\$ 9,091,388,494	\$ 8,453,891,458	\$ 8,677,620,358

**Defined Benefit Plan
Changes in Fiduciary Net Position – Judicial Plan
Last Ten Fiscal Years**

	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions										
Member contributions	\$ 616,095	\$ 620,075	\$ 603,875	\$ 584,451	\$ 549,845	\$ 549,691	\$ 528,192	\$ 518,094	\$ 517,419	\$ 518,138
Employer contributions	715,963	1,212,666	1,179,328	1,144,445	1,077,545	979,281	932,223	841,397	810,721	987,261
Non-employer entity contributions	–	–	–	–	–	–	–	–	–	–
Investment Income (net of expenses)	2,164,283	4,709,445	6,606,905	7,799,507	129,372	1,055,347	8,416,042	5,195,908	238,870	9,044,929
Transfer from other funds	764,902	–	–	–	6,342,010	–	–	–	–	–
Total additions to fiduciary net position	4,261,243	6,542,186	8,390,108	9,528,403	8,098,772	2,584,319	9,876,457	6,555,399	1,567,010	10,550,328
Deductions										
Benefit payments	4,313,483	4,021,982	3,804,709	3,651,927	3,501,911	3,383,995	3,219,480	3,282,344	3,171,846	3,034,095
Refunds	1,075	45,524	–	–	–	–	–	–	–	124
Administrative expenses	69,406	68,475	61,708	56,436	47,577	49,399	41,681	42,858	40,852	43,534
Transfer to other funds	–	2,604	–	–	–	–	–	–	–	–
Total deductions from fiduciary net position	4,383,964	4,138,585	3,866,417	3,708,363	3,549,488	3,433,394	3,261,161	3,325,202	3,212,698	3,077,753
Change in fiduciary net position	\$ (122,721)	\$ 2,403,601	\$ 4,523,691	\$ 5,820,040	\$ 4,549,284	\$ (849,075)	\$ 6,615,296	\$ 3,230,197	\$ (1,645,688)	\$ 7,472,575
Fiduciary Net Position										
Beginning of Year	\$ 73,637,441	\$ 71,233,840	\$ 66,710,149	\$ 60,890,109	\$ 56,340,825	\$ 57,189,900	\$ 50,574,604	\$ 47,344,407	\$ 48,990,095	\$ 41,517,520
End of Year	\$ 73,514,720	\$ 73,637,441	\$ 71,233,840	\$ 66,710,149	\$ 60,890,109	\$ 56,340,825	\$ 57,189,900	\$ 50,574,604	\$ 47,344,407	\$ 48,990,095

Defined Benefit Plan
Changes in Fiduciary Net Position – Legislative Plan
Last Ten Fiscal Years

	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions										
Member contributions	\$ 156,306	\$ 220,611	\$ 153,881	\$ 202,388	\$ 137,893	\$ 193,356	\$ 139,501	\$ 194,669	\$ 133,579	\$ 182,065
Employer contributions	-	-	-	-	-	4,418	3,857	6,507	-	-
Non-employer entity contributions	-	-	-	-	-	-	-	-	-	-
Investment Income (net of expenses)	390,164	845,407	1,176,462	1,366,222	47,890	206,453	1,622,295	975,524	48,845	1,634,305
Transfer from other funds	365,766	45,285	-	-	-	-	-	-	-	-
Total additions to fiduciary net position	912,236	1,111,303	1,330,343	1,568,610	185,783	404,227	1,765,653	1,176,700	182,424	1,816,370
Deductions										
Benefit payments	520,364	482,660	427,063	399,142	367,545	327,875	308,770	280,254	274,088	255,181
Refunds	177,332	124,180	32,682	69,901	77,786	111,237	8,836	82,768	5,613	93,809
Administrative expenses	12,458	12,262	11,002	10,003	9,353	9,584	7,975	8,040	7,241	7,551
Transfer to other funds	-	-	-	-	-	-	-	-	-	-
Total deductions from fiduciary net position	710,154	619,102	470,747	479,046	454,684	448,696	325,581	371,062	286,942	356,541
Change in fiduciary net position	\$ 202,082	\$ 492,201	\$ 859,596	\$ 1,089,564	\$ (268,901)	\$ (44,469)	\$ 1,440,072	\$ 805,638	\$ (104,518)	\$ 1,459,829
Fiduciary Net Position										
Beginning of Year	\$ 13,248,022	\$ 12,755,821	\$ 11,896,225	\$ 10,806,661	\$ 11,075,562	\$ 11,120,031	\$ 9,679,959	\$ 8,874,321	\$ 8,978,839	\$ 7,519,010
End of Year	\$ 13,450,104	\$ 13,248,022	\$ 12,755,821	\$ 11,896,225	\$ 10,806,661	\$ 11,075,562	\$ 11,120,031	\$ 9,679,959	\$ 8,874,321	\$ 8,978,839

Defined Benefit Plan
Changes in Fiduciary Net Position – PLD Consolidated Plan
Last Ten Fiscal Years

	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions										
Member contributions	\$ 54,090,045	\$ 54,927,202	\$ 48,050,202	\$ 46,080,851	\$ 40,861,405	\$ 37,202,921	\$ 33,210,510	\$ 31,658,619	\$ 32,343,655	\$ 35,022,928
Employer contributions	66,717,733	61,487,037	56,092,662	51,387,011	47,624,182	43,366,730	32,706,160	26,465,471	22,260,128	17,459,677
Non-employer entity contributions	-	-	-	-	-	-	-	-	-	-
Investment Income (net of expenses)	88,330,927	188,620,107	259,699,519	299,780,948	10,200,342	46,075,304	361,125,177	221,313,918	10,111,043	381,383,555
Transfer from other funds	27,886,461	268,552	-	124,177	-	-	-	-	-	-
Total additions to fiduciary net position	237,025,166	305,302,898	363,842,383	397,372,987	98,685,929	126,644,955	427,041,847	279,438,008	64,714,826	433,866,160
Deductions										
Benefit payments	167,897,392	158,671,037	147,516,358	140,413,488	134,834,445	129,476,010	121,559,257	114,627,512	108,646,611	101,288,867
Refunds	6,854,776	6,728,643	4,571,527	5,750,078	5,085,235	48,939,042	5,602,101	6,051,774	22,911,291	11,353,634
Administrative expenses	2,797,728	2,706,977	2,411,666	2,209,324	2,028,294	2,117,266	1,779,304	1,810,389	1,732,139	1,827,587
Transfer to other funds	203,000	220,000	386,621	186,378	217,338	-	-	-	-	-
Total deductions from fiduciary net position	177,752,896	168,326,657	154,886,172	148,559,268	142,165,312	180,532,318	128,940,662	122,489,675	133,290,041	114,470,088
Change in fiduciary net position	\$ 59,272,271	\$ 136,976,241	\$ 208,956,211	\$ 248,813,719	\$ (43,479,383)	\$ (53,887,363)	\$ 298,101,185	\$ 156,948,333	\$ (68,575,215)	\$ 319,396,072
Fiduciary Net Position										
Beginning of Year	\$ 2,953,156,096	\$ 2,816,179,855	\$ 2,607,223,644	\$ 2,358,409,925	\$ 2,401,889,308	\$ 2,455,776,671	\$ 2,157,675,486	\$ 2,000,727,153	\$ 2,069,302,368	\$ 1,749,906,296
End of Year	\$ 3,012,428,367	\$ 2,953,156,096	\$ 2,816,179,855	\$ 2,607,223,644	\$ 2,358,409,925	\$ 2,401,889,308	\$ 2,455,776,671	\$ 2,157,675,486	\$ 2,000,727,153	\$ 2,069,302,368

Defined Benefit Plan
Changes in Fiduciary Net Position – PLD Agent Plan
Last Ten Fiscal Years

	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions										
Member contributions	\$ 28,694	\$ 68,708	\$ 68,609	\$ 76,783	\$ 83,614	\$ 94,468	\$ 94,136	\$ 106,000	\$ 105,380	\$ 124,472
Employer contributions	345,323	638,946	594,730	630,639	783,608	916,671	667,846	656,047	102,509	302,338
Non-employer entity contributions	-	-	-	-	-	-	-	-	-	-
Investment Income (net of expenses)	421,327	2,377,478	3,477,465	4,160,113	112,396	662,680	5,581,964	3,591,957	79,872	6,669,837
Transfer from other funds	-	-	-	-	-	-	-	-	-	-
Total additions to fiduciary net position	795,344	3,085,132	4,140,804	4,867,535	979,618	1,673,819	6,343,946	4,354,004	287,761	7,096,647
Deductions										
Benefit payments	1,759,029	2,842,649	2,788,425	2,777,307	2,779,624	2,780,492	2,702,486	2,644,060	2,608,985	2,442,356
Refunds	913,894	201,763	-	-	-	-	1,897,634	-	201,244	9,190
Administrative expenses	20,772	35,552	33,056	4,005	29,962	32,253	27,981	30,704	30,884	33,525
Transfer to other funds	26,823,377	-	-	-	-	-	-	-	-	-
Total deductions from fiduciary net position	29,517,072	3,079,964	2,821,481	2,781,312	2,809,586	2,812,745	4,628,101	2,674,764	2,841,113	2,485,071
Change in fiduciary net position	\$ (28,721,728)	\$ 5,168	\$ 1,319,323	\$ 2,086,223	\$ (1,829,968)	\$ (1,138,926)	\$ 1,715,845	\$ 1,679,240	\$ (2,553,352)	\$ 4,611,576
Fiduciary Net Position										
Beginning of Year	\$ 37,061,229	\$ 37,056,061	\$ 35,736,738	\$ 33,650,515	\$ 35,480,483	\$ 36,619,409	\$ 34,903,564	\$ 33,224,324	\$ 35,777,676	\$ 31,166,100
End of Year	\$ 8,339,501	\$ 37,061,229	\$ 37,056,061	\$ 35,736,738	\$ 33,650,515	\$ 35,480,483	\$ 36,619,409	\$ 34,903,564	\$ 33,224,324	\$ 35,777,676

Group Life Insurance Plan
Changes in Fiduciary Net Position
Last Ten Fiscal Years*

Group Life Insurance Plan – Active Employees

	Fiscal Year			
	2020	2019	2018	2017
Additions				
Member contributions	\$ 4,424,086	\$ 4,245,342	\$ 3,865,718	\$ 4,464,169
Employer contributions	1,499,430	1,231,777	1,041,734	1,066,443
Non-employer entity contributions	–	–	–	–
Investment Income (net of expenses)	699,113	869,669	754,459	947,664
Total additions to fiduciary net position	6,622,629	6,346,788	5,661,911	6,478,276
Deductions				
Benefit payments	5,144,330	2,295,347	4,229,368	4,222,130
Refunds	–	–	–	–
Administrative expenses	138,058	73,556	73,496	56,138
Transfer to other funds	–	–	–	–
Total deductions from fiduciary net position	5,282,388	2,368,903	4,302,864	4,278,268
Change in fiduciary net position	\$ 1,340,241	\$ 3,977,885	\$ 1,359,047	\$ 2,200,008
Fiduciary Net Position				
Beginning of Year	\$ 13,632,850	\$ 9,654,965	\$ 8,295,918	\$ 6,095,910
End of Year	\$ 14,973,091	\$ 13,632,850	\$ 9,654,965	\$ 8,295,918

* The System currently has this information available for the years indicated. Additional information will be added to the schedule each year until the requisite ten years is obtained.

**Group Life Insurance Plan
Changes in Fiduciary Net Position
Last Ten Fiscal Years***

Group Life Insurance Plan – State Employee & Teacher Retirees

	Fiscal Year			
	2020	2019	2018	2017
Additions				
Employer contributions	\$ 4,832,759	\$ 4,209,464	\$ 4,179,011	\$ 3,650,300
Non-employer entity contributions	4,478,090	3,546,978	3,459,442	3,270,928
Investment Income (net of expenses)	4,885,544	6,418,113	7,804,837	9,885,897
Transfer from other funds	-	-	-	-
Total additions to fiduciary net position	14,196,393	14,174,555	15,443,290	16,807,125
Deductions				
Benefit payments	8,177,754	7,118,082	7,269,808	6,759,071
Refunds	-	-	-	-
Administrative expenses	1,018,932	726,320	769,717	580,641
Total deductions from fiduciary net position	9,196,686	7,844,402	8,039,525	7,339,712
Change in fiduciary net position	\$ 4,999,707	\$ 6,330,153	\$ 7,403,765	\$ 9,467,413
Fiduciary Net Position				
Beginning of Year	\$ 100,616,782	\$ 94,286,629	\$ 86,882,864	\$ 77,415,451
End of Year	\$ 105,616,489	\$ 100,616,782	\$ 94,286,629	\$ 86,882,864

Group Life Insurance Plan – PLD Retirees

	Fiscal Year			
	2020	2019	2018	2017
Additions				
Employer contributions	\$ 1,127,014	\$ 1,100,509	\$ 1,069,640	\$ 1,037,124
Non-employer entity contributions	-	-	-	-
Investment Income (net of expenses)	752,517	1,037,784	1,333,324	1,738,914
Transfer from other funds	-	-	-	-
Total additions to fiduciary net position	1,879,531	2,138,293	2,402,964	2,776,038
Deductions				
Benefit payments	1,589,460	1,581,540	1,530,346	1,529,148
Refunds	-	-	-	-
Administrative expenses	164,654	119,519	133,624	104,294
Total deductions from fiduciary net position	1,754,114	1,701,059	1,663,970	1,633,442
Change in fiduciary net position	\$ 125,417	\$ 437,234	\$ 738,994	\$ 1,142,596
Fiduciary Net Position				
Beginning of Year	\$ 16,259,162	\$ 15,821,928	\$ 15,082,934	\$ 13,940,338
End of Year	\$ 16,384,579	\$ 16,259,162	\$ 15,821,928	\$ 15,082,934

* The System currently has this information available for the years indicated. Additional information will be added to the schedule each year until the requisite ten years is obtained.

**Defined Contribution Plans
Changes in Fiduciary Net Position
Last Ten Fiscal Years**

	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions										
Member contributions	\$ 3,880,598	\$ 3,712,509	\$ 3,256,015	\$ 3,218,801	\$ 3,628,460	\$ 3,165,927	\$ 3,505,423	\$ 2,662,317	\$ 2,888,874	\$ 2,790,771
Employer contributions	735,443	634,731	587,906	560,505	47,768	131,589	109,515	111,327	43,434	47,377
Other contributions	-	-	-	-	-	-	-	-	-	-
Investment Income (net of expenses)	2,043,343	2,488,685	2,801,636	3,447,427	226,942	719,767	3,210,308	1,815,398	318,640	1,939,674
Transfer from other funds	203,000	220,000	386,621	186,378	217,338	-	-	-	-	-
Total additions to fiduciary net position	6,862,384	7,055,925	7,032,178	7,413,111	4,120,508	4,017,283	6,825,246	4,589,042	3,250,948	4,777,822
Deductions										
Benefit payments	-	-	-	-	-	-	-	-	-	-
Refunds and withdrawals	2,342,931	3,292,801	2,774,078	2,072,166	1,866,147	1,718,286	2,032,458	643,765	1,055,018	770,630
Administrative expenses	290,464	299,377	496,042	284,202	309,558	130,964	112,015	113,827	45,964	50,143
Transfer to other funds	-	-	-	-	-	-	-	-	-	-
Total deductions from fiduciary net position	2,633,395	3,592,178	3,270,120	2,356,368	2,175,705	1,849,250	2,144,473	757,592	1,100,982	820,773
Change in fiduciary net position	\$ 4,228,989	\$ 3,463,747	\$ 3,762,058	\$ 5,056,743	\$ 1,944,803	\$ 2,168,033	\$ 4,680,773	\$ 3,831,450	\$ 2,149,966	\$ 3,957,049
Fiduciary Net Position										
Beginning of Year	\$ 41,424,688	\$ 37,960,941	\$ 34,198,883	\$ 29,142,140	\$ 27,197,337	\$ 25,029,304	\$ 20,348,531	\$ 16,517,081	\$ 14,367,115	\$ 10,410,066
End of Year	\$ 45,653,677	\$ 41,424,688	\$ 37,960,941	\$ 34,198,883	\$ 29,142,140	\$ 27,197,337	\$ 25,029,304	\$ 20,348,531	\$ 16,517,081	\$ 14,367,115

Retiree Health Investment Trust Fund
Changes in Fiduciary Net Position
Last Ten Fiscal Years

	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions										
Member contributions	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Employer contributions	-	2,000,000	2,000,000	4,000,000	5,584,992	-	-	1,840,385	6,000,000	14,411,368
Other contributions	-	-	-	-	-	-	-	-	-	-
Investment Income (net of expenses)	13,858,561	18,845,823	21,271,236	26,513,072	2,388,249	5,405,438	29,564,596	18,706,315	959,334	23,350,728
Transfer from other funds	-	-	-	-	-	-	-	-	-	-
Total additions to fiduciary net position	13,858,561	20,845,823	23,271,236	30,513,072	7,973,241	5,405,438	29,564,596	20,546,700	6,959,334	37,762,096
Deductions										
Benefit payments	-	-	-	-	-	-	-	-	-	-
Refunds	-	-	-	-	-	-	-	-	-	-
Administrative expenses	3,000	3,000	6,480	5,844	5,354	117,844	90,030	85,609	68,643	64,510
Transfer to other funds	-	-	-	-	-	-	-	-	-	-
Total deductions from fiduciary net position	3,000	3,000	6,480	5,844	5,354	117,844	90,030	85,609	68,643	64,510
Change in fiduciary net position	\$ 13,855,561	\$ 20,842,823	\$ 23,264,756	\$ 30,507,228	\$ 7,967,887	\$ 5,287,594	\$ 29,474,566	\$ 20,461,091	\$ 6,890,691	\$ 37,697,586
Fiduciary Net Position										
Beginning of Year	\$ 277,703,141	\$ 256,860,318	\$ 233,595,562	\$ 203,088,334	\$ 195,120,447	\$ 189,832,853	\$ 160,358,287	\$ 139,897,196	\$ 133,006,505	\$ 95,308,919
End of Year	\$ 291,558,702	\$ 277,703,141	\$ 256,860,318	\$ 233,595,562	\$ 203,088,334	\$ 195,120,447	\$ 189,832,853	\$ 160,358,287	\$ 139,897,196	\$ 133,006,505

Defined Benefit Plans
Benefit and Refund Deductions from Fiduciary Net Position by Type
Last Ten Fiscal Years

State Employee and Teacher Plan

Type of Benefit	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Service retirement benefits	\$ 821,283,878	\$ 789,638,248	\$ 748,896,621	\$ 718,059,271	\$ 683,518,206	\$ 658,113,295	\$ 622,008,923	\$ 604,712,027	\$ 566,668,373	\$ 528,676,257
Disability benefits	23,324,932	24,240,969	24,787,516	26,232,096	26,795,729	27,863,125	28,930,711	30,077,965	29,864,477	29,632,446
Pre-Retirement death benefits	19,368,811	19,055,731	18,713,331	18,158,342	17,403,242	17,315,685	16,567,000	16,735,839	15,979,866	15,827,267
Total benefits	\$ 863,977,621	\$ 832,934,948	\$ 792,397,468	\$ 762,449,709	\$ 727,717,177	\$ 703,292,105	\$ 667,506,634	\$ 651,525,831	\$ 612,512,716	\$ 574,135,970
Type of Refund										
Death	\$ 4,840,969	\$ 3,819,233	\$ 3,079,428	\$ 4,373,110	\$ 2,778,790	\$ 3,120,006	\$ 3,247,581	\$ 3,955,186		
Separation	14,000,894	14,899,378	14,904,875	13,503,162	14,027,776	16,312,147	18,436,816	13,936,069		
Other	-	-	-	-	-	-	-	-		
Total refunds	\$ 18,841,863	\$ 18,718,610	\$ 17,984,303	\$ 17,876,272	\$ 16,806,566	\$ 19,432,153	\$ 21,684,397	\$ 17,891,255	\$ -	\$ -

Data by type of refund, by plan, was not readily available for the years prior to 2013. This information will continue to be populated until the requisite ten years is displayed.

Judicial Plan

Type of Benefit	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Service retirement benefits	\$ 4,313,483	\$ 4,021,982	\$ 3,804,709	\$ 3,651,927	\$ 3,501,911	\$ 3,383,995	\$ 3,194,250	\$ 3,207,656	\$ 3,107,935	\$ 2,996,751
Disability benefits	-	-	-	-	-	-	25,230	74,688	63,911	37,344
Pre-Retirement death benefits	-	-	-	-	-	-	-	-	-	-
Total benefits	\$ 4,313,483	\$ 4,021,982	\$ 3,804,709	\$ 3,651,927	\$ 3,501,911	\$ 3,383,995	\$ 3,219,480	\$ 3,282,344	\$ 3,171,846	\$ 3,034,095
Type of Refund										
Death	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Separation	1,075	45,524	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Total refunds	\$ 1,075	\$ 45,524	\$ -							

Data by type of refund, by plan, was not readily available for the years prior to 2013. This information will continue to be populated until the requisite ten years is displayed.

Defined Benefit Plans
Benefit and Refund Deductions from Fiduciary Net Position by Type
Last Ten Fiscal Years

Legislative Plan

Type of Benefit	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Service retirement benefits	\$ 451,474	\$ 421,421	\$ 363,478	\$ 347,133	\$ 312,108	\$ 289,432	\$ 271,025	\$ 242,015	\$ 231,584	\$ 215,154
Disability benefits	15,295	15,022	14,629	14,377	19,245	8,142	7,994	8,099	7,863	7,863
Pre-Retirement death benefits	53,595	46,217	48,956	37,632	36,192	30,301	29,751	30,140	34,641	32,164
Total benefits	\$ 520,364	\$ 482,660	\$ 427,063	\$ 399,142	\$ 367,545	\$ 327,875	\$ 308,770	\$ 280,254	\$ 274,088	\$ 255,181
Type of Refund										
Death	\$ 20,473	\$ -	\$ -	\$ 14,720	\$ 6,122	\$ 11,524	\$ -	\$ -	\$ -	\$ -
Separation	156,859	124,180	32,682	55,181	71,664	99,713	8,836	82,768		
Other	-	-	-	-	-	-	-	-	-	-
Total refunds	\$ 177,332	\$ 124,180	\$ 32,682	\$ 69,901	\$ 77,786	\$ 111,237	\$ 8,836	\$ 82,768	\$ -	\$ -

Data by type of refund, by plan, was not readily available for the years prior to 2013. This information will continue to be populated until the requisite ten years is displayed.

PLD Consolidated Plan

Type of Benefit	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Service retirement benefits	\$ 156,066,355	\$ 147,218,859	\$ 136,330,957	\$ 129,354,921	\$ 123,607,716	\$ 118,281,904	\$ 110,537,271	\$ 104,017,589	\$ 98,259,313	\$ 91,247,190
Disability benefits	6,632,012	6,413,911	6,469,460	6,596,584	6,954,282	6,994,050	7,133,396	6,860,218	6,842,091	6,611,574
Pre-Retirement death benefits	5,199,025	5,038,267	4,715,941	4,461,983	4,272,447	4,200,056	3,888,590	3,749,705	3,545,207	3,430,103
Total benefits	\$ 167,897,392	\$ 158,671,037	\$ 147,516,358	\$ 140,413,488	\$ 134,834,445	\$ 129,476,010	\$ 121,559,257	\$ 114,627,512	\$ 108,646,611	\$ 101,288,867
Type of Refund										
Death	\$ 1,676,570	\$ 785,480	\$ 574,813	\$ 938,577	\$ 589,655	\$ 1,141,276	\$ 613,327	\$ 982,328		
Separation	5,178,205	5,943,162	3,996,714	4,811,501	4,495,580	4,797,240	4,988,774	5,069,446		
Other*	-	-	-	-	-	43,000,526	-	-	-	-
Total refunds	\$ 6,854,776	\$ 6,728,643	\$ 4,571,527	\$ 5,750,078	\$ 5,085,235	\$ 48,939,042	\$ 5,602,101	\$ 6,051,774	\$ -	\$ -

* Refunds in fiscal year 2015 reflect the return of approximately \$43 million of non-Plan cash being managed by the System on behalf of PLD Consolidated Plan employees. Data by type of refund, by plan, was not readily available for the years prior to 2013. This information will continue to be populated until the requisite ten years is displayed.

Defined Benefit Plans Benefit and Refund Deductions from Fiduciary Net Position by Type Last Ten Fiscal Years

PLD Agent Plan

Type of Benefit	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Service retirement benefits	\$ 1,759,029	\$ 2,842,649	\$ 2,788,425	\$ 2,777,307	\$ 2,779,624	\$ 2,780,492	\$ 2,702,486	\$ 2,644,060	\$ 2,608,985	\$ 2,442,356
Disability benefits	-	-	-	-	-	-	-	-	-	-
Pre-Retirement death benefits	-	-	-	-	-	-	-	-	-	-
Total benefits	\$ 1,759,029	\$ 2,842,649	\$ 2,788,425	\$ 2,777,307	\$ 2,779,624	\$ 2,780,492	\$ 2,702,486	\$ 2,644,060	\$ 2,608,985	\$ 2,442,356
Type of Refund										
Death	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Separation	913,894	201,763	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	1,897,634	-	-	-
Total refunds	\$ 913,894	\$ 201,763	\$ -	\$ -	\$ -	\$ -	\$ 1,897,634	\$ -	\$ -	\$ -

Data by type of refund, by plan, was not readily available for the years prior to 2013. This information will continue to be populated until the requisite ten years is displayed.

Pension Combined

Type of Benefit	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Service retirement benefits	\$ 983,874,218	\$ 944,143,159	\$ 892,184,190	\$ 854,190,558	\$ 813,719,565	\$ 782,849,118	\$ 738,713,955	\$ 714,823,347	\$ 670,876,190	\$ 625,577,708
Disability benefits	29,972,239	30,669,902	31,271,605	32,843,057	33,769,256	34,865,317	36,097,330	37,020,969	36,778,342	36,289,227
Pre-Retirement death benefits	24,621,431	24,140,215	23,478,228	22,657,957	21,711,881	21,546,043	20,485,341	20,515,684	19,559,715	19,289,534
Total benefits	\$ 1,038,467,888	\$ 998,953,276	\$ 946,934,023	\$ 909,691,572	\$ 869,200,702	\$ 839,260,478	\$ 795,296,626	\$ 772,360,000	\$ 727,214,247	\$ 681,156,469
Type of Refund										
Death	\$ 6,538,012	\$ 4,604,713	\$ 3,654,240	\$ 5,326,407	\$ 3,374,567	\$ 4,272,805	\$ 3,860,908	\$ 4,937,513	\$ 4,406,322	\$ 5,139,665
Separation	20,250,927	21,214,007	18,934,271	18,369,844	18,595,020	21,209,100	23,434,426	19,088,284	21,003,032	20,567,589
Other*	-	-	-	-	-	43,000,526	1,897,634	-	18,733,381	6,496,738
Total refunds	\$ 26,788,940	\$ 25,818,720	\$ 22,588,511	\$ 23,696,251	\$ 21,969,587	\$ 68,482,431	\$ 29,192,968	\$ 24,025,797	\$ 44,142,736	\$ 32,203,992

* Refunds in fiscal year 2015 reflect the return of approximately \$43 million of non-Plan cash being managed by the System on behalf of PLD Consolidated Plan employers. Data by type of refund, by plan, was not readily available for the years prior to 2013. This information will continue to be populated until the requisite ten years is displayed.

Group Life Insurance Plan
Benefit and Refund Deductions from Fiduciary Net Position by Type
Last Ten Fiscal Years*

Group Life Insurance Plan – Active Employees

	Fiscal Year			
	2020	2019	2018	2017
Type of Benefit **				
Basic active claims	\$ 2,538,518	\$ 1,528,091	\$ 2,118,390	\$ 1,717,860
Supplemental claims	2,037,102	438,000	1,758,000	1,886,684
Dependent claims	200,000	202,500	237,500	182,500
Accidental Death & Dismemberment claims	256,000	125,000	60,000	309,000
	5,031,620	2,293,591	4,173,890	4,096,044
Conversion expense	112,710	1,755	55,478	53,235
Total benefits	\$ 5,144,330	\$ 2,295,346	\$ 4,229,368	\$ 4,149,279

Group Life Insurance Plan – State Employee & Teacher Retirees

	Fiscal Year			
	2020	2019	2018	2017
Type of Benefit **				
Basic retiree claims	\$ 8,177,754	\$ 7,118,082	\$ 7,269,809	\$ 6,003,967
Total benefits	\$ 8,177,754	\$ 7,118,082	\$ 7,269,809	\$ 6,003,967

Group Life Insurance Plan – PLD Retirees

	Fiscal Year			
	2020	2019	2018	2017
Type of Benefit **				
Basic retiree claims	\$ 1,589,460	\$ 1,581,539	\$ 1,530,346	\$ 1,394,586
Total benefits	\$ 1,589,460	\$ 1,581,539	\$ 1,530,346	\$ 1,394,586

* The System currently has this information available for the years indicated. Additional information will be added to the schedule each year until the requisite ten years is obtained.

** Benefit amounts displayed in 2018 and beyond include the cost of third-party processing activities.

Defined Benefit Plans – Average Benefit Payments Last Ten Fiscal Years

State Employee and Teacher Plan

Retirement Effective Dates

July 1, 2012 – June 30, 2020*

	Years of Creditable Service						
	Less than 5	5-10	10-15	15-20	20-25	25-30	Greater than 30
Period 7/1/2019 to 6/30/2020							
Average Monthly Benefit	\$ 153	\$ 513	\$ 874	\$ 1,363	\$ 1,968	\$ 2,309	\$ 3,288
Average Final Salary	\$ 8,998	\$ 33,062	\$ 36,013	\$ 40,514	\$ 44,617	\$ 46,618	\$ 53,611
Number of Service Retirees	1,630	1,616	3,036	2,882	3,590	6,928	10,273
Period 7/1/2018 to 6/30/2019							
Average Monthly Benefit	\$ 157	\$ 504	\$ 856	\$ 1,333	\$ 1,940	\$ 2,269	\$ 3,241
Average Final Salary	\$ 9,126	\$ 32,761	\$ 35,302	\$ 39,506	\$ 43,727	\$ 45,871	\$ 52,845
Number of Service Retirees	1,482	1,526	2,925	2,817	3,528	6,893	10,009
Period 7/1/2017 to 6/30/2018							
Average Monthly Benefit	\$ 159	\$ 497	\$ 830	\$ 1,292	\$ 1,889	\$ 2,205	\$ 3,165
Average Final Salary	\$ 9,253	\$ 32,389	\$ 34,666	\$ 38,544	\$ 42,761	\$ 45,081	\$ 51,936
Number of Service Retirees	1,334	1,413	2,812	2,664	3,454	6,836	9,672
Period 7/1/2016 to 6/30/2017							
Average Monthly Benefit	\$ 165	\$ 493	\$ 806	\$ 1,265	\$ 1,857	\$ 2,163	\$ 3,108
Average Final Salary	\$ 9,821	\$ 32,228	\$ 33,672	\$ 37,623	\$ 41,937	\$ 44,336	\$ 50,999
Number of Service Retirees	1,198	1,345	2,744	2,544	3,402	6,767	9,415
Period 7/1/2015 to 6/30/2016							
Average Monthly Benefit	\$ 170	\$ 485	\$ 780	\$ 1,229	\$ 1,806	\$ 2,105	\$ 3,040
Average Final Salary	\$ 10,649	\$ 32,076	\$ 32,842	\$ 36,832	\$ 40,960	\$ 43,503	\$ 50,158
Number of Service Retirees	1,070	1,259	2,663	2,467	3,331	6,670	9,164
Period 7/1/2014 to 6/30/2015							
Average Monthly Benefit	\$ 178	\$ 472	\$ 755	\$ 1,188	\$ 1,757	\$ 2,050	\$ 2,970
Average Final Salary	\$ 11,307	\$ 31,831	\$ 31,809	\$ 35,631	\$ 40,059	\$ 42,711	\$ 49,231
Number of Service Retirees	930	1,182	2,550	2,332	3,283	6,569	8,889
Period 7/1/2013 to 6/30/2014							
Average Monthly Benefit	\$ 189	\$ 463	\$ 725	\$ 1,153	\$ 1,715	\$ 2,002	\$ 2,907
Average Final Salary	\$ 12,446	\$ 31,627	\$ 30,576	\$ 34,457	\$ 38,903	\$ 41,888	\$ 48,257
Number of Service Retirees	786	1,105	2,426	2,245	3,215	6,430	8,586
Period 7/1/2012 to 6/30/2013							
Average Monthly Benefit	\$ 210	\$ 465	\$ 708	\$ 1,139	\$ 1,700	\$ 1,987	\$ 2,877
Average Final Salary	\$ 40,079	\$ 33,962	\$ 30,962	\$ 33,820	\$ 38,005	\$ 41,170	\$ 47,284
Number of Service Retirees	650	1,009	2,319	2,160	3,123	6,337	8,360

*This table will continue to be populated until the requisite ten years of data is presented.

Defined Benefit Plans – Average Benefit Payments Last Ten Fiscal Years

Judicial Plan

Retirement Effective Dates

July 1, 2012 – June 30, 2020*

	Years of Creditable Service						
	Less than 5	5-10	10-15	15-20	20-25	25-30	Greater than 30
Period 7/1/2019 to 6/30/2020							
Average Monthly Benefit	\$ 600	\$ 1,781	\$ 3,822	\$ 3,878	\$ 4,916	\$ 5,516	\$ 5,367
Average Final Salary	\$ 14,754	\$ 47,685	\$ 75,013	\$ 89,166	\$ 98,422	\$ 108,358	\$ 111,931
Number of Service Retirees	8	15	19	22	11	11	5
Period 7/1/2018 to 6/30/2019							
Average Monthly Benefit	\$ 566	\$ 1,757	\$ 3,953	\$ 4,077	\$ 4,715	\$ 5,668	\$ 5,340
Average Final Salary	\$ 13,088	\$ 49,706	\$ 76,249	\$ 92,037	\$ 96,657	\$ 110,586	\$ 111,931
Number of Service Retirees	7	13	16	19	9	9	5
Period 7/1/2017 to 6/30/2018							
Average Monthly Benefit	\$ 562	\$ 1,778	\$ 3,985	\$ 4,037	\$ 4,779	\$ 5,615	\$ 5,293
Average Final Salary	\$ 13,088	\$ 55,919	\$ 78,254	\$ 92,037	\$ 97,926	\$ 110,586	\$ 111,931
Number of Service Retirees	7	13	14	19	8	9	5
Period 7/1/2016 to 6/30/2017							
Average Monthly Benefit	\$ 442	\$ 1,729	\$ 4,358	\$ 4,244	\$ 4,738	\$ 5,586	\$ 5,268
Average Final Salary	\$ 10,273	\$ 57,420	\$ 84,234	\$ 89,784	\$ 103,183	\$ 110,586	\$ 111,931
Number of Service Retirees	6	12	12	20	5	9	5
Period 7/1/2015 to 6/30/2016							
Average Monthly Benefit	\$ 440	\$ 1,707	\$ 4,317	\$ 4,199	\$ 4,696	\$ 5,542	\$ 5,229
Average Final Salary	\$ 10,273	\$ 57,420	\$ 84,234	\$ 87,575	\$ 103,183	\$ 110,586	\$ 111,931
Number of Service Retirees	6	12	12	19	5	9	5
Period 7/1/2014 to 6/30/2015							
Average Monthly Benefit	\$ 388	\$ 1,689	\$ 4,606	\$ 4,154	\$ 4,655	\$ 5,499	\$ 5,190
Average Final Salary	\$ 17,129	\$ 57,420	\$ 79,169	\$ 86,262	\$ 103,183	\$ 110,586	\$ 111,931
Number of Service Retirees	4	12	13	15	5	9	5
Period 7/1/2013 to 6/30/2014							
Average Monthly Benefit	\$ 315	\$ 1,590	\$ 4,861	\$ 4,000	\$ 4,621	\$ 5,464	\$ 5,164
Average Final Salary	\$ 8,279	\$ 54,733	\$ 78,970	\$ 84,290	\$ 103,183	\$ 110,586	\$ 111,931
Number of Service Retirees	1	9	15	12	5	9	5
Period 7/1/2012 to 6/30/2013							
Average Monthly Benefit	\$ 315	\$ 1,623	\$ 5,070	\$ 4,229	\$ 4,750	\$ 5,464	\$ 5,541
Average Final Salary	\$ 118,269	\$ 112,541	\$ 87,240	\$ 93,463	\$ 110,809	\$ 110,586	\$ 109,339
Number of Service Retirees	1	5	17	9	6	9	4

*This table will continue to be populated until the requisite ten years of data is presented.

Defined Benefit Plans – Average Benefit Payments Last Ten Fiscal Years

Legislative Plan

Retirement Effective Dates

July 1, 2012 – June 30, 2020*

	Years of Creditable Service						
	Less than 5	5-10	10-15	15-20	20-25	25-30	Greater than 30
Period 7/1/2019 to 6/30/2020							
Average Monthly Benefit	\$ 93	\$ 176	\$ 286	\$ 362	\$ –	\$ –	\$ –
Average Final Salary	\$ 9,768	\$ 12,641	\$ 12,538	\$ 14,524	\$ –	\$ –	\$ –
Number of Service Retirees	29	111	18	7	\$ –	\$ –	\$ –
Period 7/1/2018 to 6/30/2019							
Average Monthly Benefit	\$ 88	\$ 169	\$ 282	\$ 358	\$ –	\$ –	\$ –
Average Final Salary	\$ 9,314	\$ 12,478	\$ 12,409	\$ 14,524	\$ –	\$ –	\$ –
Number of Service Retirees	26	116	17	7	0	0	0
Period 7/1/2017 to 6/30/2018							
Average Monthly Benefit	\$ 86	\$ 166	\$ 274	\$ 351	\$ –	\$ –	\$ –
Average Final Salary	\$ 9,777	\$ 12,318	\$ 12,388	\$ 14,665	\$ –	\$ –	\$ –
Number of Service Retirees	23	104	17	4	0	0	0
Period 7/1/2016 to 6/30/2017							
Average Monthly Benefit	\$ 82	\$ 161	\$ 279	\$ 363	\$ –	\$ –	\$ –
Average Final Salary	\$ 9,646	\$ 12,109	\$ 12,284	\$ 14,900	\$ –	\$ –	\$ –
Number of Service Retirees	23	105	16	3	0	0	0
Period 7/1/2015 to 6/30/2016							
Average Monthly Benefit	\$ 80	\$ 159	\$ 263	\$ 402	\$ –	\$ –	\$ –
Average Final Salary	\$ 10,120	\$ 12,078	\$ 11,681	\$ 12,773	\$ –	\$ –	\$ –
Number of Service Retirees	23	97	14	3	0	0	0
Period 7/1/2014 to 6/30/2015							
Average Monthly Benefit	\$ 79	\$ 155	\$ 254	\$ 382	\$ –	\$ –	\$ –
Average Final Salary	\$ 10,270	\$ 11,994	\$ 11,153	\$ 13,204	\$ –	\$ –	\$ –
Number of Service Retirees	24	96	16	4	0	0	0
Period 7/1/2013 to 6/30/2014							
Average Monthly Benefit	\$ 67	\$ 149	\$ 247	\$ 374	\$ –	\$ –	\$ –
Average Final Salary	\$ 9,603	\$ 11,643	\$ 11,138	\$ 13,204	\$ –	\$ –	\$ –
Number of Service Retirees	22	84	14	4	0	0	0
Period 7/1/2012 to 6/30/2013							
Average Monthly Benefit	\$ 69	\$ 148	\$ 256	\$ 374	\$ –	\$ –	\$ –
Average Final Salary	\$ 18,728	\$ 11,778	\$ 11,339	\$ 13,204	\$ –	\$ –	\$ –
Number of Service Retirees	24	87	11	4	0	0	0

*This table will continue to be populated until the requisite ten years of data is presented.

Defined Benefit Plans – Average Benefit Payments Last Ten Fiscal Years

PLD Consolidated Plan

Retirement Effective Dates

July 1, 2012 – June 30, 2020*

	Years of Creditable Service						
	Less than 5	5-10	10-15	15-20	20-25	25-30	Greater than 30
Period 7/1/2019 to 6/30/2020							
Average Monthly Benefit	\$ 155	\$ 579	\$ 887	\$ 1,431	\$ 2,045	\$ 2,476	\$ 3,323
Average Final Salary	\$ 7,702	\$ 24,757	\$ 30,632	\$ 36,562	\$ 40,068	\$ 45,538	\$ 50,187
Number of Service Retirees	1,936	1,722	1,491	1,427	1,550	995	555
Period 7/1/2018 to 6/30/2019							
Average Monthly Benefit	\$ 151	\$ 566	\$ 862	\$ 1,403	\$ 1,988	\$ 2,411	\$ 3,252
Average Final Salary	\$ 7,750	\$ 24,631	\$ 30,073	\$ 35,969	\$ 38,828	\$ 44,497	\$ 49,703
Number of Service Retirees	1,795	1,602	1,443	1,387	1,447	977	557
Period 7/1/2017 to 6/30/2018							
Average Monthly Benefit	\$ 145	\$ 545	\$ 820	\$ 1,350	\$ 1,923	\$ 2,337	\$ 3,152
Average Final Salary	\$ 7,736	\$ 24,418	\$ 29,145	\$ 35,125	\$ 37,357	\$ 43,630	\$ 48,843
Number of Service Retirees	1,639	1,451	1,329	1,331	1,326	994	579
Period 7/1/2016 to 6/30/2017							
Average Monthly Benefit	\$ 139	\$ 528	\$ 790	\$ 1,307	\$ 1,859	\$ 2,268	\$ 3,064
Average Final Salary	\$ 7,669	\$ 24,049	\$ 28,550	\$ 34,100	\$ 35,609	\$ 42,422	\$ 47,585
Number of Service Retirees	1,478	1,297	1,271	1,276	1,233	1,008	599
Period 7/1/2015 to 6/30/2016							
Average Monthly Benefit	\$ 138	\$ 511	\$ 748	\$ 1,281	\$ 1,809	\$ 2,228	\$ 3,015
Average Final Salary	\$ 7,707	\$ 23,663	\$ 27,128	\$ 33,490	\$ 33,885	\$ 41,686	\$ 47,280
Number of Service Retirees	1,328	1,176	1,201	1,252	1,139	1,031	618
Period 7/1/2014 to 6/30/2015							
Average Monthly Benefit	\$ 139	\$ 497	\$ 727	\$ 1,256	\$ 1,797	\$ 2,206	\$ 3,004
Average Final Salary	\$ 7,777	\$ 23,320	\$ 26,728	\$ 32,942	\$ 32,952	\$ 41,008	\$ 46,870
Number of Service Retirees	1,186	1,050	1,130	1,167	1,090	1,037	638
Period 7/1/2013 to 6/30/2014							
Average Monthly Benefit	\$ 139	\$ 471	\$ 675	\$ 1,178	\$ 1,748	\$ 2,138	\$ 2,919
Average Final Salary	\$ 8,018	\$ 23,316	\$ 25,525	\$ 31,381	\$ 31,737	\$ 40,026	\$ 46,278
Number of Service Retirees	1,007	926	1,064	1,046	1,072	1,063	656
Period 7/1/2012 to 6/30/2013							
Average Monthly Benefit	\$ 136	\$ 449	\$ 629	\$ 1,103	\$ 1,710	\$ 2,086	\$ 2,858
Average Final Salary	\$ 39,573	\$ 35,552	\$ 28,806	\$ 36,407	\$ 32,317	\$ 39,707	\$ 46,137
Number of Service Retirees	882	779	1,002	906	1,083	1,076	656

*This table will continue to be populated until the requisite ten years of data is presented.

Defined Benefit Plans – Average Benefit Payments Last Ten Fiscal Years

PLD Agent Plan

Retirement Effective Dates

July 1, 2012 – June 30, 2020*

	Years of Creditable Service						
	Less than 5	5-10	10-15	15-20	20-25	25-30	Greater than 30
Period 7/1/2019 to 6/30/2020							
Average Monthly Benefit	\$ 64	\$ 458	\$ 571	\$ 829	\$ 1,059	\$ 2,078	\$ 3,099
Average Final Salary	\$ 1,846	\$ 10,786	\$ 15,337	\$ 21,467	\$ 28,690	\$ 37,420	\$ 59,692
Number of Service Retirees	26	2	7	9	6	9	7
Period 7/1/2018 to 6/30/2019							
Average Monthly Benefit	\$ 63	\$ 451	\$ 619	\$ 905	\$ 1,931	\$ 2,369	\$ 2,825
Average Final Salary	\$ 1,974	\$ 10,786	\$ 17,952	\$ 25,145	\$ 32,493	\$ 39,754	\$ 48,478
Number of Service Retirees	28	2	11	16	30	31	20
Period 7/1/2017 to 6/30/2018							
Average Monthly Benefit	\$ 59	\$ 351	\$ 540	\$ 874	\$ 1,843	\$ 2,247	\$ 2,591
Average Final Salary	\$ 1,858	\$ 14,768	\$ 17,146	\$ 25,602	\$ 31,931	\$ 39,102	\$ 46,194
Number of Service Retirees	26	4	16	18	31	33	23
Period 7/1/2016 to 6/30/2017							
Average Monthly Benefit	\$ 60	\$ 340	\$ 505	\$ 846	\$ 1,815	\$ 2,216	\$ 2,576
Average Final Salary	\$ 1,988	\$ 15,590	\$ 15,597	\$ 24,795	\$ 31,931	\$ 38,813	\$ 46,217
Number of Service Retirees	24	5	19	20	31	33	22
Period 7/1/2015 to 6/30/2016							
Average Monthly Benefit	\$ 49	\$ 337	\$ 501	\$ 839	\$ 1,816	\$ 2,221	\$ 2,523
Average Final Salary	\$ 1,915	\$ 15,644	\$ 15,294	\$ 24,795	\$ 31,502	\$ 38,440	\$ 46,217
Number of Service Retirees	23	5	19	20	33	31	22
Period 7/1/2014 to 6/30/2015							
Average Monthly Benefit	\$ 45	\$ 337	\$ 455	\$ 837	\$ 1,820	\$ 2,189	\$ 2,501
Average Final Salary	\$ 1,609	\$ 15,644	\$ 13,693	\$ 24,755	\$ 31,406	\$ 36,887	\$ 45,304
Number of Service Retirees	21	5	21	20	33	33	21
Period 7/1/2013 to 6/30/2014							
Average Monthly Benefit	\$ 45	\$ 275	\$ 457	\$ 833	\$ 1,795	\$ 2,118	\$ 2,483
Average Final Salary	\$ 1,661	\$ 16,653	\$ 13,692	\$ 24,627	\$ 30,255	\$ 36,436	\$ 45,304
Number of Service Retirees	20	4	23	22	34	34	21
Period 7/1/2012 to 6/30/2013							
Average Monthly Benefit	\$ 37	\$ 273	\$ 450	\$ 797	\$ 1,748	\$ 2,065	\$ 2,319
Average Final Salary	\$ 39,810	\$ 20,825	\$ 13,898	\$ 26,695	\$ 29,884	\$ 35,644	\$ 42,989
Number of Service Retirees	23	4	25	23	35	34	19

*This table will continue to be populated until the requisite ten years of data is presented.

Defined Benefit Plans – Average Benefit Payments Last Ten Fiscal Years

All Defined Benefit Pension Plans, Combined

Retirement Effective Dates

July 1, 2012 – June 30, 2020*

	Years of Creditable Service						
	Less than 5	5–10	10–15	15–20	20–25	25–30	Greater than 30
Period 7/1/2019 to 6/30/2020							
Average Monthly Benefit	\$ 179	\$ 557	\$ 893	\$ 1,399	\$ 2,000	\$ 2,335	\$ 3,291
Average Final Salary	\$ 8,298	\$ 28,428	\$ 34,290	\$ 39,375	\$ 43,335	\$ 46,547	\$ 53,450
Number of Service Retirees	3,599	3,443	4,558	4,335	5,159	7,948	10,850
Period 7/1/2018 to 6/30/2019							
Average Monthly Benefit	\$ 177	\$ 543	\$ 873	\$ 1,369	\$ 1,962	\$ 2,291	\$ 3,242
Average Final Salary	\$ 8,355	\$ 28,174	\$ 33,602	\$ 38,499	\$ 42,334	\$ 45,742	\$ 52,683
Number of Service Retirees	3,306	3,243	4,404	4,237	5,017	7,913	10,598
Period 7/1/2017 to 6/30/2018							
Average Monthly Benefit	\$ 173	\$ 530	\$ 839	\$ 1,326	\$ 1,906	\$ 2,226	\$ 3,164
Average Final Salary	\$ 8,388	\$ 27,950	\$ 32,915	\$ 37,612	\$ 41,281	\$ 44,935	\$ 51,762
Number of Service Retirees	2,998	2,975	4,177	4,024	4,823	7,876	10,286
Period 7/1/2016 to 6/30/2017							
Average Monthly Benefit	\$ 172	\$ 518	\$ 812	\$ 1,295	\$ 1,863	\$ 2,181	\$ 3,105
Average Final Salary	\$ 8,593	\$ 27,750	\$ 32,079	\$ 36,657	\$ 40,248	\$ 44,131	\$ 50,799
Number of Service Retirees	2,701	2,757	4,047	3,853	4,675	7,821	10,048
Period 7/1/2015 to 6/30/2016							
Average Monthly Benefit	\$ 172	\$ 504	\$ 782	\$ 1,262	\$ 1,812	\$ 2,126	\$ 3,038
Average Final Salary	\$ 8,943	\$ 27,562	\$ 31,106	\$ 35,902	\$ 39,162	\$ 43,310	\$ 49,980
Number of Service Retirees	2,425	2,538	3,899	3,748	4,510	7,745	9,818
Period 7/1/2014 to 6/30/2015							
Average Monthly Benefit	\$ 173	\$ 490	\$ 759	\$ 1,222	\$ 1,772	\$ 2,077	\$ 2,973
Average Final Salary	\$ 8,697	\$ 27,354	\$ 30,250	\$ 34,875	\$ 38,303	\$ 42,528	\$ 49,081
Number of Service Retirees	2,143	2,340	3,719	3,529	4,410	7,652	9,561
Period 7/1/2013 to 6/30/2014							
Average Monthly Benefit	\$ 179	\$ 470	\$ 727	\$ 1,168	\$ 1,728	\$ 2,026	\$ 2,908
Average Final Salary	\$ 9,877	\$ 27,332	\$ 29,082	\$ 33,579	\$ 37,127	\$ 41,680	\$ 48,133
Number of Service Retirees	1,821	2,123	3,537	3,320	4,328	7,537	9,274
Period 7/1/2012 to 6/30/2013							
Average Monthly Benefit	\$ 364	\$ 433	\$ 681	\$ 1,105	\$ 1,698	\$ 2,006	\$ 2,881
Average Final Salary	\$ 28,688	\$ 30,446	\$ 28,554	\$ 32,680	\$ 36,429	\$ 41,244	\$ 47,413
Number of Service Retirees	440	1,482	3,112	2,860	4,288	7,658	9,194
Period 7/1/2011 to 6/30/2012							
Average Monthly Benefit	\$ 647	\$ 427	\$ 671	\$ 1,083	\$ 1,678	\$ 1,979	\$ 2,845
Average Final Salary	\$ 25,200	\$ 59,515	\$ 27,199	\$ 31,429	\$ 35,443	\$ 40,189	\$ 46,386
Number of Service Retirees	568	1,402	3,013	2,777	4,182	7,413	8,863
Period 7/1/2010 to 6/30/2011							
Average Monthly Benefit	\$ 419	\$ 399	\$ 636	\$ 1,035	\$ 1,599	\$ 1,877	\$ 2,681
Average Final Salary	\$ 26,382	\$ 27,791	\$ 25,452	\$ 29,842	\$ 34,108	\$ 38,836	\$ 44,693
Number of Service Retirees	551	1,276	2,913	2,681	4,083	7,060	8,221

Defined Benefit Plans Retired Members by Type of Benefit and Option As of June 30, 2020

State Employees and Teacher Plan

Amount of Monthly Benefit	Number of Retired Members	Type of Retirement Benefit				Benefit Option Selected *									
		Service Retiree	Beneficiary	Disability	Pre-Retire Death Benefit	Full Benefit to Retiree	1	2	3	4	5	6	7	8	Other
\$0 - \$250	2,466	1,564	857	25	20	733	263	293	61	29	630	111	42	58	246
\$251 - \$500	2,783	1,383	1,276	10	114	721	215	260	70	18	947	109	25	36	382
\$501 - \$750	3,144	1,508	1,165	21	450	777	237	261	102	21	865	111	37	43	690
\$751 - \$1,000	2,218	1,526	662	30	-	780	218	251	125	21	442	97	42	60	182
\$1,001 - \$1,250	2,133	1,602	477	54	-	805	213	244	146	24	339	103	39	51	169
\$1,251 - \$1,500	2,146	1,690	366	90	-	769	233	221	139	20	357	120	64	53	170
\$1,501 - \$1,750	2,387	1,920	316	151	-	918	300	262	99	20	408	94	53	69	164
\$1,751 - \$2,000	2,567	2,124	267	176	-	997	298	249	120	31	442	132	55	73	170
Over \$2,001	17,307	15,414	861	1,032	-	7,615	2,174	1,683	741	339	1,919	714	652	776	694
Totals	37,151	28,731	6,247	1,589	584	14,115	4,151	3,724	1,603	523	6,349	1,591	1,009	1,219	2,867

Judicial Plan

Amount of Monthly Benefit	Number of Retired Members	Type of Retirement Benefit				Benefit Option Selected *									
		Service Retiree	Beneficiary	Disability	Pre-Retire Death Benefit	Full Benefit to Retiree	1	2	3	4	5	6	7	8	Other
\$0 - \$250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\$251 - \$500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\$501 - \$750	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0
\$751 - \$1,000	2	0	2	0	0	0	0	0	0	0	1	0	0	0	1
\$1,001 - \$1,250	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0
\$1,251 - \$1,500	2	0	2	0	0	0	0	0	0	0	2	0	0	0	0
\$1,501 - \$1,750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\$1,751 - \$2,000	2	0	2	0	0	0	0	1	0	0	0	0	0	0	1
Over \$2,001	75	61	13	1	0	17	7	20	10	3	10	4	0	2	2
Totals	83	61	21	1	0	17	7	21	10	3	15	4	0	2	4

Legislative Plan

Amount of Monthly Benefit	Number of Retired Members	Type of Retirement Benefit				Benefit Option Selected *									
		Service Retiree	Beneficiary	Disability	Pre-Retire Death Benefit	Full Benefit to Retiree	1	2	3	4	5	6	7	8	Other
\$0 - \$250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\$251 - \$500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\$501 - \$750	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0
\$751 - \$1,000	2	0	2	0	0	0	0	0	0	0	1	0	0	0	1
\$1,001 - \$1,250	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0
\$1,251 - \$1,500	2	0	2	0	0	0	0	0	0	0	2	0	0	0	0
\$1,501 - \$1,750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\$1,751 - \$2,000	2	0	2	0	0	0	0	1	0	0	0	0	0	0	1
Over \$2,001	75	61	13	1	0	17	7	20	10	3	10	4	0	2	2
Totals	83	61	21	1	0	17	7	21	10	3	15	4	0	2	4

* There are eight options available to retirees for their monthly retirement benefit:

Full Benefit to Retiree: Provides the highest benefit to the retiree; there is no benefit provided for a beneficiary(ies).

Option 1: The monthly benefit is reduced, and remaining contributions and interest, if any, are paid to a beneficiary(ies) upon retiree's death in a one-time, lump-sum payment.

Option 2: The monthly benefit is reduced, and the same monthly benefit is paid to a beneficiary(ies) upon the retiree's death.

Option 3: The monthly benefit is reduced, and one-half of the monthly benefit is paid to a beneficiary(ies) upon the retiree's death.

Option 4: The monthly benefit is reduced, and a retiree-designated percentage of the monthly benefit is paid to a beneficiary(ies) upon the retiree's death.

Option 5: The monthly benefit is split (up to 49%) with a beneficiary(ies) while both the retiree and beneficiary(ies) are living; upon death of either, the other receives the higher benefit for the remainder of his/her life.

Option 6: Similar to Option 2, except the retiree's monthly benefit will increase to the Full Benefit amount in the event the beneficiary(ies) dies before the retiree.

Option 7: Similar to Option 3, except the retiree's monthly benefit will increase to the Full Benefit amount in the event the beneficiary(ies) dies before the retiree.

Option 8: Similar to Option 4, except the retiree's monthly benefit will increase to the Full Benefit amount in the event the beneficiary(ies) dies before the retiree.

Other: Default option for specific circumstances such as disability benefits, survivor benefits, and qualified domestic relations order benefits.

Defined Benefit Plans Retired Members by Type of Benefit and Option As of June 30, 2020

PLD Consolidated Plan

Amount of Monthly Benefit	Number of Retired Members	Type of Retirement Benefit				Benefit Option Selected *									
		Service Retiree	Beneficiary	Disability	Pre-Retire Death Benefit	Full Benefit to Retiree	1	2	3	4	5	6	7	8	Other
\$0 - \$250	1,540	1,051	461	21	7	538	148	191	58	17	309	70	32	46	131
\$251 - \$500	1,153	672	446	10	25	300	137	185	49	9	297	49	13	7	107
\$501 - \$750	1,151	664	345	13	129	283	125	146	44	12	245	49	17	22	208
\$751 - \$1,000	875	594	258	23	-	255	95	156	55	8	158	40	16	14	78
\$1,001 - \$1,250	720	540	149	31	-	214	94	128	40	10	93	47	14	13	67
\$1,251 - \$1,500	558	428	107	23	-	168	70	94	14	4	94	37	12	13	52
\$1,501 - \$1,750	544	428	80	36	-	153	69	94	21	4	109	31	9	5	49
\$1,751 - \$2,000	509	384	72	53	-	157	57	69	25	3	98	22	10	10	58
Over \$2,001	2,810	2,461	168	180	1	916	304	434	138	51	448	191	89	81	158
Totals	9,860	7,222	2,086	390	162	2,984	1,099	1,497	444	118	1,851	536	212	211	908

PLD Agent Plan

Amount of Monthly Benefit	Number of Retired Members	Type of Retirement Benefit				Benefit Option Selected *									
		Service Retiree	Beneficiary	Disability	Pre-Retire Death Benefit	Full Benefit to Retiree	1	2	3	4	5	6	7	8	Other
\$0 - \$250	6	5	1	0	0	2	1	2	0	0	1	0	0	0	0
\$251 - \$500	5	2	3	0	0	2	0	0	1	0	2	0	0	0	0
\$501 - \$750	9	6	3	0	0	4	1	1	1	0	1	0	0	0	1
\$751 - \$1,000	4	2	2	0	0	0	0	2	1	0	0	0	0	0	1
\$1,001 - \$1,250	9	8	1	0	0	4	0	1	1	0	1	0	1	0	1
\$1,251 - \$1,500	5	3	2	0	0	1	0	0	1	0	2	1	0	0	0
\$1,501 - \$1,750	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0
\$1,751 - \$2,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Over \$2,001	11	11	0	0	0	1	0	7	0	0	1	2	0	0	0
Totals	50	38	12	0	0	14	3	13	5	0	8	3	1	0	3

* There are eight options available to retirees for their monthly retirement benefit:

Full Benefit to Retiree: Provides the highest benefit to the retiree; there is no benefit provided for a beneficiary(ies).

Option 1: The monthly benefit is reduced, and remaining contributions and interest, if any, are paid to a beneficiary(ies) upon retiree's death in a one-time, lump-sum payment.

Option 2: The monthly benefit is reduced, and the same monthly benefit is paid to a beneficiary(ies) upon the retiree's death.

Option 3: The monthly benefit is reduced, and one-half of the monthly benefit is paid to a beneficiary(ies) upon the retiree's death.

Option 4: The monthly benefit is reduced, and a retiree-designated percentage of the monthly benefit is paid to a beneficiary(ies) upon the retiree's death.

Option 5: The monthly benefit is split (up to 49%) with a beneficiary(ies) while both the retiree and beneficiary(ies) are living; upon death of either, the other receives the higher benefit for the remainder of his/her life.

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Option 7: Similar to Option 3, except the retiree's monthly benefit will increase to the Full Benefit amount in the event the beneficiary(ies) dies before the retiree.

Option 8: Similar to Option 4, except the retiree's monthly benefit will increase to the Full Benefit amount in the event the beneficiary(ies) dies before the retiree.

Other: Default option for specific circumstances such as disability benefits, survivor benefits, and qualified domestic relations order benefits.

Employee Contribution Rates
Last Ten Fiscal Years

	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Judges	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%
Legislators	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%
School Teacher Employees	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%
State of Maine Employees										
Employee Class:										
General	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%	7.65%
Police – Grandfathered	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
Marine Wardens – Grandfathered	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
Game Wardens – Grandfathered	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
Prison Wardens – Grandfathered	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
Forest Rangers – Grandfathered	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
1998 Special Plan Groups	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
25-Year/No-Age Special Plan Groups	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
Participating Local District Employees										
Employee Class:										
AC – Age 60 – General COLA *	8.10%	8.00%	8.00%	8.00%	7.50%	7.00%	6.50%	6.50%	6.50%	6.50%
AC – Age 65 – General COLA *	7.35%	Not Applicable								
BC – Age 60 – General COLA *	4.60%	4.50%	4.50%	4.50%	4.00%	3.50%	3.00%	3.00%	3.00%	3.00%
BC – Age 65 – General COLA *	3.85%	Not Applicable								
1C – Special COLA	8.30%	8.00%	8.00%	8.00%	7.50%	7.00%	6.50%	6.50%	6.50%	6.50%
2C – Special COLA	8.00%	8.00%	8.00%	8.00%	7.50%	7.00%	6.50%	6.50%	6.50%	6.50%
3C – Special COLA	9.50%	9.50%	9.50%	9.50%	9.00%	8.50%	8.00%	8.00%	8.00%	8.00%
4C – Special COLA	8.90%	9.00%	9.00%	9.00%	8.50%	8.00%	7.50%	7.50%	7.50%	7.50%
AN – Age 60 – General No COLA *	8.00%	8.00%	8.00%	8.00%	7.50%	7.00%	6.50%	6.50%	6.50%	6.50%
AN – Age 65 – General No COLA *	7.25%	Not Applicable								
1N – Special No COLA	8.10%	8.00%	8.00%	8.00%	7.50%	7.00%	6.50%	6.50%	6.50%	6.50%
2N – Special No COLA	7.80%	8.00%	8.00%	8.00%	7.50%	7.00%	6.50%	6.50%	6.50%	6.50%
3N – Special No COLA	9.30%	9.50%	9.50%	9.50%	9.00%	8.50%	8.00%	8.00%	8.00%	8.00%
4N – Special No COLA	8.70%	9.00%	9.00%	9.00%	8.50%	8.00%	7.50%	7.50%	7.50%	7.50%

* Effective in fiscal year 2020, different contribution rates were assessed those employees with a normal retirement age of 60 and those with a normal retirement age of 65.

Employer Contribution Rates
Last Ten Fiscal Years

	Fiscal Year									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Judges	8.8%	14.94%	14.94%	14.98%	14.99%	13.24%	13.25%	11.98%	11.99%	14.12%
Legislators	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
School Teacher Employers	18.4%	15.05%	15.05%	13.38%	13.38%	15.68%	15.68%	13.85%	13.85%	17.28%
State of Maine Employees										
Employee Class:										
General	21.98%	24.01%	24.05%	22.69%	22.37%	18.43%	18.14%	14.21%	14.18%	16.92%
Police – Grandfathered	31.89%	46.42%	46.51%	38.56%	38.01%	41.05%	40.43%	39.36%	39.22%	51.26%
Marine Wardens – Grandfathered	0.00%	0.00%	0.00%	40.99%	40.41%	31.62%	31.20%	33.44%	33.33%	54.49%
Game Wardens – Grandfathered	32.68%	47.64%	47.73%	42.18%	41.59%	36.50%	35.98%	38.60%	38.47%	54.48%
Prison Wardens – Grandfathered	0.00%	0.00%	0.00%	27.75%	27.28%	29.51%	29.05%	26.83%	26.74%	27.03%
Forest Rangers – Grandfathered	20.93%	24.94%	24.99%	21.99%	21.64%	22.73%	22.36%	13.69%	13.65%	22.32%
1998 Special Plan Groups	26.32%	26.19%	26.24%	29.16%	28.71%	23.04%	22.65%	17.39%	17.33%	19.06%
25-Year/No-Age Special Plan Groups	22.94%	23.44%	23.48%	23.96%	23.57%	20.42%	20.08%	15.43%	15.38%	24.87%
Participating Local District Employees										
Employee Class:										
AC – General COLA	10.00%	10.00%	9.60%	9.50%	8.90%	7.80%	6.50%	5.30%	4.40%	3.50%
BC – General COLA	6.30%	6.30%	6.10%	6.40%	5.80%	4.70%	3.90%	3.20%	2.70%	2.10%
1C – Special COLA	16.20%	16.30%	15.70%	14.20%	14.00%	13.40%	12.80%	12.20%	10.20%	8.10%
2C – Special COLA	10.60%	10.50%	10.10%	9.10%	8.90%	8.30%	7.90%	7.50%	6.30%	5.00%
3C – Special COLA	12.80%	12.70%	12.20%	11.40%	11.40%	11.00%	10.50%	10.00%	8.30%	6.60%
4C – Special COLA	8.90%	8.70%	8.40%	7.70%	7.60%	7.20%	6.90%	6.60%	5.50%	4.40%
AN – General No COLA	7.40%	7.30%	7.00%	6.50%	5.60%	4.10%	3.40%	2.80%	2.40%	1.90%
1N – Special No COLA	11.10%	10.90%	10.50%	9.30%	8.70%	7.50%	7.10%	6.80%	5.60%	4.50%
2N – Special No COLA	6.00%	5.70%	5.50%	5.60%	5.20%	4.40%	4.20%	4.00%	3.30%	2.60%
3N – Special No COLA	8.10%	7.80%	7.50%	7.40%	7.00%	6.10%	5.80%	5.50%	4.50%	3.60%
4N – Special No COLA	4.50%	4.10%	3.90%	4.60%	4.40%	4.00%	3.80%	3.60%	3.00%	2.40%

Principal Participating Employers
Current Year and Nine Years Ago

2020					2011				
Participating Entity	Covered Employees	Rank	Percentage of Total System	Participating Entity	Covered Employees	Rank	Percentage of Total System		
State of Maine	14,632	1	25.20%	State of Maine	14,993	1	26.11%		
Maine Veterans Home	1,391	2	2.40%	Maine Veterans Home	1,330	2	2.32%		
Portland School Department	1,210	3	2.08%	Portland School Department	1,218	3	2.12%		
Lewiston School Department	975	4	1.68%	Portland, City of	844	4	1.47%		
Portland, City of	957	5	1.65%	Lewiston School Department	800	5	1.39%		
Bangor School Department	555	6	0.96%	Bangor School Department	655	6	1.14%		
Regional School Unit No. 6	545	7	0.94%	Auburn School Department	620	7	1.08%		
South Portland School Department	543	8	0.94%	Regional School Unit No. 14	587	8	1.02%		
Auburn School Department	534	9	0.92%	Regional School Unit No. 6	565	9	0.98%		
Regional School Unit No. 60	521	10	0.90%	Regional School Unit No. 75	565	10	0.98%		
All Others *	36,191		62.33%	All Others *	35,256		61.39%		
Total (538 Participating Entities)	58,054		100.00%	Total (547 Participating Entities)	57,433		100.00%		

* "All Others" includes employees covered under two or more employer types. In 2020, "All Others" consisted of:

	Employers	Members
Participating Local Districts	299	11,232
School Districts	229	24,959
Total	528	36,191

Note: Covered employees of these employers are eligible to participate in the Defined Benefit Plans administered by MainePERS, which provide normal and disability retirement benefits and certain survivor benefits, as well as benefits under the Group Life Insurance Plan.

Data for this table are derived from the System's pension administration records.

Participating Employers, Detailed Listing

State Entities

State of Maine
 Maine Community College System
 Maine Dairy & Nutrition Council
 Maine Developmental Disabilities Council
 Maine Potato Board
 MECDHH/Governor Baxter School for the Deaf
 Northern New England Passenger Rail Authority

Teachers

Acton School Department
 Andover School Department
 AOS No. 43 Central Office
 AOS No. 43 Howland
 AOS No. 43 Milo
 AOS No. 47 Central Office
 AOS No. 47 Dedham
 AOS No. 47 Orrington
 AOS No. 77 Alexander
 AOS No. 77 Central Office
 AOS No. 77 Charlotte
 AOS No. 77 Eastport
 AOS No. 77 Lubec
 AOS No. 77 Pembroke
 AOS No. 77 Perry
 AOS No. 90 Baileyville
 AOS No. 90 Central Office
 AOS No. 90 East Range
 AOS No. 90 Lee
 AOS No. 90 Princeton
 AOS No. 91 Bar Harbor
 AOS No. 91 Central Office
 AOS No. 91 Cranberry Isle
 AOS No. 91 Frenchboro
 AOS No. 91 MDI High School
 AOS No. 91 Mt Desert
 AOS No. 91 Southwest Harbor
 AOS No. 91 Swans Island
 AOS No. 91 Tremont
 AOS No. 91 Trenton
 AOS No. 92 Vassalboro
 AOS No. 92 Waterville
 AOS No. 92 Winslow
 AOS No. 93 Bristol
 AOS No. 93 Central Office
 AOS No. 93 Great Salt Bay
 AOS No. 93 Jefferson
 AOS No. 93 Nobleboro
 AOS No. 93 South Bristol
 AOS No. 94 Central Office
 AOS No. 94 Harmony
 AOS No. 94 MSAD 46
 AOS No. 96 Central Office
 AOS No. 96 Cutler
 AOS No. 96 East Machias
 AOS No. 96 Jonesboro
 AOS No. 96 Machias
 AOS No. 96 Machiasport
 AOS No. 96 Marshfield

AOS No. 96 Northfield
 AOS No. 96 Roque Bluffs
 AOS No. 96 Wesley
 AOS No. 96 Whiting
 AOS No. 96 Whitneyville
 AOS No. 98 Boothbay Harbor
 AOS No. 98 Central Office
 AOS No. 98 Edgecomb
 AOS No. 98 Georgetown
 AOS No. 98 Southport
 Athens School Department
 Auburn School Department
 Augusta School Department
 Bangor School Department
 Biddeford School Department
 Brewer School Department
 Brunswick School Department
 Calais School Department
 Cape Elizabeth School Department
 Caswell School Department
 Chebeague Island School Department
 Cherryfield School Department
 Community School District No. 8 Airline
 Community School District No. 13 Deer Isle-Stonington
 Community School District No. 17 Moosabec
 Community School District No. 18 Wells-Ogunquit
 Community School District No. 19 Five Town
 Dayton School Department
 East Millinocket School Department
 Easton School Department
 Ellsworth School Department
 Erskine Academy
 Eustis School Department
 Falmouth School Department
 Fayette School Department
 Foxcroft Academy
 Fryeburg Academy
 George Stevens Academy
 Glenburn School Department
 Gorham School Department
 Greenbush School Department
 Hancock School Department
 Hermon School Department
 Indian Island School
 Indian Township School
 Isle Au Haut School Department
 Islesboro School Department
 Kittery School Department
 Lamoine School Department
 Lee Academy
 Lewiston School Department
 Limestone Public Schools
 Lincoln Academy
 Lincolnville School Department
 Lisbon School Department
 Long Island School Department
 Madawaska School Department
 Maine Central Institute
 Maine Education Association

Participating Employers, Detailed Listing

Maine Indian Education
 Maine Ocean School
 Maine School Administrative District No. 4 Guilford
 Maine School Administrative District No. 7 North Haven
 Maine School Administrative District No. 8 Vinalhaven
 Maine School Administrative District No. 12 Jackman
 Maine School Administrative District No. 13 Bingham
 Maine School Administrative District No. 20 Fort Fairfield
 Maine School Administrative District No. 23 Carmel
 Maine School Administrative District No. 24 Van Buren
 Maine School Administrative District No. 27 Fort Kent
 Maine School Administrative District No. 28 Camden
 Maine School Administrative District No. 32 Ashland
 Maine School Administrative District No. 33 St. Agatha
 Maine School Administrative District No. 42 Mars Hill
 Maine School Administrative District No. 45 Washburn
 Maine School Administrative District No. 53 Pittsfield
 Maine School Administrative District No. 58 Kingfield
 Maine School Administrative District No. 59 Madison
 Maine School Administrative District No. 65 Matinicus
 Maine School of Science and Mathematics
 Medway School Department
 Milford School Department
 Millinocket School Department
 Monhegan Plantation School Department
 Northport School Department
 Otis School Department
 Oxford Hills Technical School No. 11
 Pleasant Point School
 Portland School Department
 Region 2 Southern Aroostook County
 Region 3 Northern Penobscot County
 Region 4 United Technologies Center
 Region 7 Waldo County Technical Center
 Region 8 Midcoast School of Technology
 Region 9 School of Applied Technology
 Region 10 Cumberland-Sagadahoc County
 Regional School Unit No. 1
 Regional School Unit No. 2
 Regional School Unit No. 4
 Regional School Unit No. 5
 Regional School Unit No. 10
 Regional School Unit No. 12
 Regional School Unit No. 13
 Regional School Unit No. 14
 Regional School Unit No. 16
 Regional School Unit No. 18
 Regional School Unit No. 19
 Regional School Unit No. 20
 Regional School Unit No. 21
 Regional School Unit No. 22
 Regional School Unit No. 23
 Regional School Unit No. 24
 Regional School Unit No. 25
 Regional School Unit No. 26
 Regional School Unit No. 34
 Regional School Unit No. 38
 Regional School Unit No. 39
 Regional School Unit No. 50
 Regional School Unit No. 56
 Regional School Unit No. 71
 Regional School Unit No. 73
 Regional School Unit No. 78
 Regional School Unit No. 89
 RSU No. 3 - MSAD No. 3 Unity
 RSU No. 6 - MSAD No. 6 Bar Mills
 RSU No. 9 - MSAD No. 9 Farmington
 RSU No. 11 - MSAD No. 11 Gardiner
 RSU No. 15 - MSAD No. 15 Gray
 RSU No. 17 - MSAD No. 17 South Paris
 RSU No. 29 - MSAD No. 29 Houlton
 RSU No. 35 - MSAD No. 35 Eliot
 RSU No. 37 - MSAD No. 37 Harrington
 RSU No. 40 - MSAD No. 40 Waldoboro
 RSU No. 44 - MSAD No. 44 Bethel
 RSU No. 49 - MSAD No. 49 Fairfield
 RSU No. 51 - MSAD No. 51 Cumberland Center
 RSU No. 52 - MSAD No. 52 Turner
 RSU No. 54 - MSAD No. 54 Skowhegan
 RSU No. 55 - MSAD No. 55 Cornish
 RSU No. 57 - MSAD No. 57 Waterboro
 RSU No. 60 - MSAD No. 60 North Berwick
 RSU No. 61 - MSAD No. 61 Bridgton
 RSU No. 63 - MSAD No. 63
 RSU No. 64 - MSAD No. 64 East Corinth
 RSU No. 67 - MSAD No. 67 Lincoln
 RSU No. 68 - MSAD No. 68 Dover-Foxcroft
 RSU No. 70 - MSAD No. 70
 RSU No. 72 - MSAD No. 72 Fryeburg
 RSU No. 74 - MSAD No. 74 North Anson
 RSU No. 75 - MSAD No. 75 Topsham
 RSU No. 79 - MSAD No. 1 Presque Isle
 RSU No. 84 - MSAD No. 14
 Saco School Department
 Sanford School Department
 Scarborough School Department
 School Agent Carrabassett
 School Agent Coplin Plantation
 School Agent Pleasant Ridge Plantation
 Sebago Public Schools
 South Portland School Department
 St. George School Department
 State of Maine
 Thornton Academy
 Union 60 Greenville
 Union 69 Appleton
 Union 69 Hope
 Union 76 Brooklin
 Union 76 Sedgwick
 Union 93 Blue Hill
 Union 93 Brooksville
 Union 93 Castine
 Union 93 Penobscot
 Union 93 Surry School Department
 Union 103 Beals
 Union 103 Jonesport
 Union 122 New Sweden
 Union 122 Westmanland

Participating Employers, Detailed Listing

Union 122 Woodland
 Vanceboro School Department
 Veazie School Department
 Washington Academy
 West Bath School Department
 Westbrook School Department
 Winthrop School Department
 Wiscasset School Department
 Yarmouth School Department
 York School Department

PLD Consolidated

Acton, Town of
 Alfred, Town of
 Androscoggin County
 Androscoggin Valley Council of Governments
 Anson-Madison Sanitary District
 Aroostook County
 Aroostook Waste Solutions (Tri Community Landfill)
 Auburn Housing Authority
 Auburn Lewiston Airport
 Auburn Public Library
 Auburn Water and Sewer District
 Auburn, City of
 Augusta Housing Authority
 Augusta, City of
 Baileyville, Town of
 Bangor Housing Authority
 Bangor Public Library
 Bangor Water District
 Bangor, City of
 Bar Harbor, Town of
 Bath Water District
 Bath, City of
 Baxter Academy of Technology and Science
 Belfast Water District
 Belfast, City of
 Berwick Sewer District
 Berwick, Town of
 Bethel, Town of
 Biddeford Housing Authority
 Biddeford, City of
 Boothbay Harbor Sewer District
 Boothbay Harbor, Town of
 Boothbay Region Water District
 Bowdoinham Water District
 Brewer Housing Authority
 Brewer, City of
 Bridgton, Town of
 Brownville, Town of
 Brunswick Fire and Police
 Brunswick Public Library Association
 Brunswick Sewer District
 Brunswick, Town of
 Buckfield, Town of
 Bucksport, Town of
 Calais, City of
 Camden, Town of
 Cape Elizabeth Police

Caribou Fire and Police
 Carrabassett Valley, Town of
 Chesterville, Town of
 China, Town of
 Coastal Counties Workforce
 Community School District No. 12 East Range-Support
 Community School District No. 18 Wells-Ogunquit-Support
 Corinna, Town of
 Cornville Regional Charter School
 Cumberland County
 Cumberland, Town of
 Damariscotta, Town of
 Danforth, Town of
 Dayton, Town of
 Dexter, Town of
 Dover-Foxcroft Water District
 Dover-Foxcroft, Town of
 Durham, Town of
 Eagle Lake Water & Sewer District
 East Millinocket, Town of
 Easton, Town of
 Eliot, Town of
 Ellsworth, City of
 Enfield, Town of
 Erskine Academy
 Fairfield, Town of
 Falmouth Memorial Library
 Falmouth, Town of
 Farmington Village Corporation
 Farmington, Town of
 Fort Fairfield Housing Authority
 Fort Fairfield Utilities District
 Fort Fairfield, Town of
 Fort Kent, Town of
 Franklin County
 Freeport, Town of
 Frenchville, Town of
 Fryeburg, Town of
 Gardiner Water District
 Gardiner, City of
 Glenburn, Town of
 Good Will Home Association
 Gorham Fire and Police
 Gorham, Town of
 Gould Academy
 Grand Isle, Town of
 Greater Augusta Utility District
 Greenville, Town of
 Hallowell, City of
 Hampden Water District
 Hampden, Town of
 Hancock County
 Hancock, Town of
 Harpswell, Town of
 Harrison, Town of
 Hartland, Town of
 Hermon, Town of
 Hodgdon, Town of
 Holden, Town of

Participating Employers, Detailed Listing

Houlton Water Company
 Houlton, Town of
 Jackman Utility District
 Jay, Town of
 Kennebec County
 Kennebec Sanitary Treatment District
 Kennebec Water District
 Kennebunk Kennebunkport Wells Water District
 Kennebunk Light and Power District
 Kennebunk Sewer District
 Kennebunk, Town of
 Kennebunkport, Town of
 Kittery Water District
 Kittery, Town of
 Knox County Sheriff's Office
 Lebanon, Town of
 Levant, Town of
 Lewiston Auburn 911
 Lewiston Housing Authority
 Lewiston, City of
 Lewiston-Auburn Water Pollution Control Authority
 Limestone, Town of
 Lincoln Academy
 Lincoln and Sagadahoc Multi-County Jail Authority
 Lincoln County
 Lincoln County Sheriff's Office
 Lincoln Sanitary District
 Lincoln Water District
 Lincoln, Town of
 Linneus, Town of
 Lisbon Water Department
 Lisbon, Town of
 Livermore Falls Water District
 Livermore Falls, Town of
 Lovell, Town of
 Lubec Water District
 Lubec, Town of
 M.A.D.S.E.C.
 Madawaska Water District
 Madawaska, Town of
 Maine Academy of Natural Sciences
 Maine County Commissioners Association
 Maine Housing Authority
 Maine Maritime Academy
 Maine Municipal Association
 Maine Municipal Bond Bank
 Maine Principals' Association
 Maine Public Employees Retirement System
 Maine School Administrative District No. 13 Bingham
 Maine School Administrative District No. 31 Howland
 Maine School Administrative District No. 41 Milo
 Maine School Administrative District No. 53 Pittsfield
 Maine School Management Association
 Maine School of Science and Mathematics
 Maine Turnpike Authority
 Maine Veterans' Homes
 Maine Virtual Academy
 Mapleton, Castle Hill, and Chapman, Towns of
 Mars Hill Utility District
 Mars Hill, Town of
 Mechanic Falls Sanitary District
 Mechanic Falls, Town of
 Medway, Town of
 Midcoast Council of Governments
 Milford, Town of
 Millinocket, Town of
 Milo Water District
 Monmouth, Town of
 Monson, Town of
 Mount Desert Island Regional School District
 Mount Desert Water District
 Mount Desert, Town of
 New Gloucester, Town of
 Newport Water District
 Newport, Town of
 North Berwick Water District
 North Berwick, Town of
 Northern Oxford Regional Solid Waste Board
 Norway Water District
 Norway, Town of
 Ogunquit, Town of
 Old Orchard Beach, Town of
 Old Town Housing Authority
 Old Town Water District
 Old Town, City of
 Orland, Town of
 Orono, Town of
 Orrington, Town of
 Otis, Town of
 Otisfield, Town of
 Oxford County
 Oxford, Town of
 Paris Utility District
 Paris, Town of
 Penobscot County
 Penquis
 Phippsburg, Town of
 Piscataquis County
 Pittsfield, Town of
 Pleasant Pt. Passamaquoddy Reservation Housing
 Authority
 Poland, Town of
 Portland Housing Authority
 Portland Public Library
 Portland, City of
 Presque Isle, City of
 Princeton, Town of
 Regional School Unit No. 1
 Regional School Unit No. 2
 Regional School Unit No. 4
 Regional School Unit No. 5
 Regional School Unit No. 9
 Regional School Unit No. 10
 Regional School Unit No. 16
 Regional School Unit No. 20
 Regional School Unit No. 21
 Regional School Unit No. 23
 Regional School Unit No. 25

Participating Employers, Detailed Listing

Regional School Unit No. 26
 Regional School Unit No. 29
 Regional School Unit No. 34
 Regional School Unit No. 39
 Regional School Unit No. 49
 Regional School Unit No. 51
 Regional School Unit No. 54
 Regional School Unit No. 56
 Regional School Unit No. 60
 Regional School Unit No. 67
 Regional School Unit No. 71
 Regional School Unit No. 73
 Richmond Utilities District
 Richmond, Town of
 Rockland, City of
 Rockport, Town of
 Rumford Fire and Police
 Rumford Mexico Sewerage District
 Rumford Water District
 Rumford, Town of
 Sabattus, Town of
 Saco, City of
 Sagadahoc County
 Sanford Housing Authority
 Sanford Sewerage District
 Sanford Water District
 Sanford, City of
 Scarborough, Town of
 Searsport Water District
 Searsport, Town of
 Skowhegan, Town of
 Somerset County
 South Berwick Sewer District
 South Berwick Water District
 South Berwick, Town of
 South Portland Housing Authority
 South Portland, City of
 Southwest Harbor, Town of
 St. Agatha, Town of
 Thomaston, Town of
 Thompson Free Library
 Topsham Sewer District
 Topsham, Town of
 Trenton, Town of
 Union, Town of
 United Technologies Center, Region 4
 Van Buren Housing Authority
 Van Buren, Town of
 Vassalboro, Town of
 Veazie Fire and Police
 Waldo County
 Waldo County Technical Center
 Waldoboro, Town of
 Washburn Water and Sewer District
 Washburn, Town of
 Washington County
 Waterboro, Town of
 Waterville Fire and Police
 Waterville Sewerage District

Wells Fire and Police
 Wells, Town of
 West Bath, Town of
 Westbrook Fire and Police
 Westbrook, City of
 Wilton, Town of
 Windham, Town of
 Winslow, Town of
 Winter Harbor Utility District
 Winterport Water District
 Winthrop Utilities District
 Winthrop, Town of
 Wiscasset, Town of
 Yarmouth Water District
 Yarmouth, Town of
 York County
 York Sewer District
 York Water District
 York, Town of

PLD Non-Consolidated

Bingham Water District
 Cape Elizabeth, Town of
 Community School District No. 903
 Knox County
 Limestone Water and Sewer District
 Western Maine Community Action

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Egg Rock Light, Bar Harbor