



PUBLIC EMPLOYEE RETIREMENT SYSTEM OF IDAHO

GASB 67 and 68 DISCLOSURE

Fiscal Year: July 1, 2022, to June 30, 2023

Prepared by

Robert L. Schmidt, FSA, EA, MAAA

Principal and Consulting Actuary

Bret D. Linton, FSA, EA, MAAA

Principal and Consulting Actuary

Ryan J. Cook, FSA, EA, CERA, MAAA

Consulting Actuary

950 W. Bannock St., Ste 430

Boise, ID 83702

Tel +1 208 342 3485

milliman.com

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Certification

Actuarial computations presented in this report under GASB Statements No. 67 and 68 are for purposes of assisting the System and participating employers in fulfilling their financial accounting requirements. The calculations in this report have been made on a basis consistent with our understanding of the plan provisions and of GASB Statements No. 67 and 68, as amended by GASB 82. 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.

Actuarial assumptions, including discount rates, mortality tables, and others identified in this report and actuarial cost methods are adopted by the Retirement Board. That entity is responsible for selecting the plan's funding policy, actuarial valuation methods, asset valuation methods, and assumptions. The policies, methods, and assumptions used in this valuation are those that have been so adopted and are described in this report. The System is solely responsible for communicating to Milliman any changes required thereto. All costs, liabilities, rates of interest, and other factors for the System have been determined on the basis of actuarial assumptions and methods which, in our professional opinion, are individually reasonable (taking into account the experience of the System and reasonable expectations); and which, in combination, offer a reasonable estimate of anticipated future experience affecting the System and are expected to have no significant bias.

This valuation report is only an estimate of the System's financial condition as of a single date. It can neither predict the System's future condition nor guarantee future financial soundness. Actuarial valuations do not affect the ultimate cost of System benefits, only the timing of System contributions. While the valuation is based on an array of individually reasonable assumptions, other assumption sets may also be reasonable and valuation results based on those assumptions would be different. No one set of assumptions is uniquely correct. Determining results using alternative assumptions is outside the scope of our engagement.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to factors such as, but not limited to, the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or modifications to contribution calculations based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of the actuarial assignment, we did not perform an analysis of the potential range of future measurements. The Retirement Board has the final decision regarding the selection of the assumptions and actuarial cost methods, and the Board has adopted them as indicated in Appendix A of our actuarial valuation reports.

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

Certification

Milliman's work is prepared solely for the internal use and benefit of the Public Employee Retirement System of Idaho. To the extent that Milliman's work is not subject to disclosure under applicable public records laws, Milliman's work may not be provided to third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to any third party recipient of its work product. Milliman's consent to release its work product to any third party may be conditioned on the third party signing a Release, subject to the following exceptions: (a) the System may provide a copy of Milliman's work, in its entirety, to the System's professional service advisors who are subject to a duty of confidentiality and who agree to not use Milliman's work for any purpose other than to benefit the System; and (b) the System may provide a copy of Milliman's work, in its entirety, to other governmental entities, as required by law.

No third-party recipient of Milliman's work product should rely upon Milliman's work product. Such recipients should engage qualified professionals for advice appropriate to their own specific needs.

The valuation results were developed using models intended for valuations that use standard actuarial techniques. We have reviewed the models, including their inputs, calculations, and outputs for consistency, reasonableness, and appropriateness to the intended purpose and in compliance with generally accepted actuarial practice and relevant actuarial standards of practice.

The consultants who worked on this assignment are actuaries. Milliman's advice is not intended to be a substitute for qualified legal, investment, or accounting counsel.

The signing actuaries are independent of the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

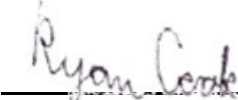
On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the principles prescribed by the Actuarial Standards Board and the Code of Professional Conduct and Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States, published by the American Academy of Actuaries. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.



Robert L. Schmidt, FSA, EA, MAAA
Principal and Consulting Actuary



Bret D. Linton, FSA, EA, MAAA
Principal and Consulting Actuary



Ryan J. Cook, FSA, EA, CERA, MAAA
Consulting Actuary

Overview of GASB 67 and GASB 68

GASB 67 applies to financial reporting for public pension plans and is required to be implemented for plan fiscal years beginning after June 15, 2013. Note that a plan's fiscal year might not be the same as the employer's fiscal year. Even if the plan does not issue standalone financial statements, but rather is considered a pension trust fund of a government, it is subject to GASB 67. Under GASB 67, enhancements to the financial statement disclosures are required, along with certain required supplementary information.

GASB 68 governs the specifics of accounting for public pension plan obligations for participating employers and is required to be implemented for employer fiscal years beginning after June 15, 2014. GASB 68 requires a liability for pension obligations, known as the Net Pension Liability, to be recognized on the balance sheets of participating employers. Changes in the Net Pension Liability will be immediately recognized as Pension Expense on the income statement or reported as deferred inflows/outflows of resources depending on the nature of the change.

Executive Summary

Relationship Between Valuation Date, Measurement Date, and Reporting Date

The Valuation Date is July 1, 2023; this is the date as of which the actuarial valuation is performed. The Measurement Date is June 30, 2023; this is the date as of which the net pension liability is determined. The Reporting Date is June 30, 2023; this is the plan's fiscal year ending date.

Significant Changes

There have been no significant changes between the valuation date and the fiscal year end.

Data, Assumptions, Methods, and Plan Provisions

The assumptions and methods used for the figures herein are for financial reporting purposes unless otherwise noted. We believe that these assumptions and methods meet the parameters set by Actuarial Standards of Practice (ASOPs).

The long-term expected rate of return on investments is 6.35%, including 0.05% for expected administrative expenses. For purposes of determining the contribution rate, we use an interest rate that is net of all expenses (6.30%). According to GASB Statements 67 and 68, the discount rate used to determine the Total Pension Liability is not allowed to be net of administrative expenses. Therefore the figures herein have been determined using a discount rate of 6.35%.

Except as noted otherwise, the attached exhibits present results that are based on the methods described in our July 1, 2023, funding valuation report (dated October 11, 2023).

These results are based on the plan provisions in effect at July 1, 2023. We have reflected census and asset data as of July 1, 2023, which are summarized in our July 1, 2023, funding valuation report. We have also reflected the new return to work benefit granted to fire and police members via Senate Bill 1054. Our July 1, 2023, funding valuation report also summarizes the changes made to our valuation to reflect this new law.

In this report, we assume that future COLAs will be 1.00% per year. COLAs above 1.00% per year are not guaranteed, but the Board has the authority to grant additional COLAs above 1.00% if the CPI-U increases by more than 1.00% in a year. The accounting methodology used in this report does not reflect additional COLAs in the Total Pension Liability (TPL) until they are granted by the Board (in-line with the discretionary nature of these additional COLAs). When the Board does grant a discretionary COLA, it is then recognized as a plan change. Paragraphs 39 of GASB 67 and 24 of GASB 68 state that the TPL should include such effects "to the extent that they are considered to be substantively automatic" and then provides footnoted guidance on considerations that might be relevant in determining whether or not the changes are "substantively automatic". See our Funding Valuation Reports for information on the COLA history of the plan. For illustrative purposes, if the COLA assumption was raised to 2.00% this would result in an increase in the Net Pension Liability of approximately \$2,445.3 million.

Schedule of Employer Contributions

| Fiscal Year Ending June 30 | Actuarially Determined Contribution | Actual Employer Contribution | Contribution Deficiency (Excess) | Covered Payroll | Contribution as a % of Covered Payroll |
|----------------------------------|---|------------------------------------|--|--------------------|--|
| 2014 | \$325,041,599 | \$310,986,283 | \$14,055,316 | \$2,702,945,352 | 11.51% |
| 2015 | \$327,101,958 | \$321,240,628 | \$5,861,330 | \$2,791,109,393 | 11.51% |
| 2016 | \$298,662,279 | \$335,610,100 | (\$36,947,821) | \$2,909,277,267 | 11.54% |
| 2017 | \$337,212,145 | \$356,367,389 | (\$19,155,244) | \$3,089,555,264 | 11.53% |
| 2018 | \$388,341,490 | \$369,139,113 | \$19,202,377 | \$3,200,396,203 | 11.53% |
| 2019 | \$382,640,388 | \$390,080,902 | (\$7,440,514) | \$3,382,051,785 | 11.53% |
| 2020 | \$392,340,997 | \$430,638,154 | (\$38,297,157) | \$3,546,033,069 | 12.14% |
| 2021 | \$394,829,024 | \$450,951,588 | (\$56,122,564) | \$3,716,726,113 | 12.13% |
| 2022 | \$463,064,998 | \$476,416,795 | (\$13,351,797) | \$3,926,999,249 | 12.13% |
| 2023 | \$436,766,149 | \$513,828,265 | (\$77,062,116) | \$4,234,182,185 | 12.14% |

Contribution Summary

| | Fiscal Year Ending June 30, 2023 |
|---|---|
| Actuarially Determined Contribution | |
| Actuarially determined employer contribution | \$436,766,149 |
| Contributions in relation to the actuarially determined employer contribution | 513,828,265 |
| Contribution deficiency (excess) | (77,062,116) |
| | |
| Covered payroll | 4,234,182,185 |
| Contributions as a percentage of covered payroll | 12.14% |
| | |
| Actuarially Determined Contribution Components | |
| Normal cost (Employer only) | 436,766,149 |
| Normal cost as a % of covered payroll | 10.32% |
| | |
| Unfunded liability amortization payment | 0 |
| Amortization payment as a % of covered payroll | 0.00% |
| | |
| Total actuarially determined contribution | 436,766,149 |
| | |
| Actual Contributions Made | |
| Total member contributions made | 335,646,335 |
| Member contributions as a % of covered payroll | 7.93% |
| | |
| Total employer contributions made | 513,828,265 |
| Employer contributions as a % of covered payroll | 12.14% |
| | |
| Total contributions made | 849,474,600 |
| Total contributions as a % of covered payroll | 20.06% |

Statement of Fiduciary Net Position

| | June 30, 2023 | June 30, 2022 |
|--|-------------------------|-------------------------|
| Assets | | |
| Cash and cash equivalents | \$11,599,841 | \$19,040,141 |
| Receivables and prepaid expenses: | | |
| Receivable contributions | 8,236,415 | 6,743,783 |
| Receivable investment income | 114,902,978 | 136,056,745 |
| Receivables from brokers for unsettled trades | 0 | 0 |
| Prepaid expenses | 98,003,890 | 94,033,173 |
| Total receivables | 221,143,283 | 236,833,701 |
| Investments: | | |
| Fixed income | 5,794,367,692 | 5,696,252,923 |
| Stocks | 11,751,667,259 | 10,590,034,700 |
| Short-term investments | 275,032,503 | 205,215,299 |
| Real estate | 1,177,782,346 | 1,194,776,872 |
| Alternative investments | 1,596,592,725 | 1,545,768,742 |
| Total investments | 20,595,442,525 | 19,232,048,536 |
| Invested securities lending cash collateral | 0 | 0 |
| Capital assets net of accumulated depreciation | 0 | 0 |
| Total assets | 20,828,185,649 | 19,487,922,378 |
| Liabilities | | |
| Investments Purchased | 115,755,396 | 121,853,164 |
| Monies Due To/(From) Other Funds | (35,000) | 0 |
| Accrued Liabilities | 16,623,135 | 16,584,052 |
| Benefits and Refunds Payable | 0 | 0 |
| Total liabilities | 132,343,531 | 138,437,216 |
| Net position restricted for pensions | \$20,695,842,118 | \$19,349,485,162 |

Statement of Changes in Fiduciary Net Position

June 30, 2023

Additions

| | | |
|---|--|---------------|
| Member contributions | | \$335,646,335 |
| Employer contributions | | 513,828,265 |
| Total contributions | | 849,474,600 |
| Investment income (loss): | | |
| Interest and dividends | | 382,732,835 |
| Equity fund income, net | | 0 |
| Net increase in fair value of investments | | 1,431,877,181 |
| Securities lending income | | 0 |
| Other income | | 518,724 |
| Less investment & operating expenses: | | |
| Direct investment expense | | 59,993,746 |
| Securities lending management fees | | 0 |
| Securities lending borrower rebate | | 0 |
| Increase / (Decrease) in assets used in plan operations | | (803,042) |
| Net investment income | | 1,755,938,036 |
| Total additions | | 2,605,412,636 |

Deductions

| | | |
|-------------------------|--|---------------|
| Benefit payments | | 1,249,058,510 |
| Administrative expenses | | 9,997,170 |
| Total deductions | | 1,259,055,680 |
| Net increase (decrease) | | 1,346,356,956 |

Net position restricted for pensions

| | | |
|-----------------------------------|--|------------------|
| Beginning of year (June 30, 2022) | | 19,349,485,162 |
| End of year (June 30, 2023) | | \$20,695,842,118 |

Long-Term Expected Rate of Return

The best-estimate range for the long-term expected rate of return is determined by adding expected inflation to expected long-term real returns and reflecting expected volatility and correlation.

Capital Market Assumptions from Callan Associates Investment Consulting as of 1/1/2021

| Asset Class | Index | Target Allocation* | Long-Term Expected Real Rate of Return** |
|--|------------------------------|--------------------|--|
| Cash | Citigroup 90-Day T-Bills | 0.00% | |
| Large Cap | S&P 500 | 18.00% | 4.50% |
| Small/Mid Cap | Russell 2500 | 11.00% | 4.70% |
| International Equity | MSCI World ex USA | 15.00% | 4.50% |
| Emerging Markets Equity | MSCI Emerging Markets | 10.00% | 4.90% |
| Domestic Fixed | Bloomberg Barclays Aggregate | 20.00% | -0.25% |
| TIPS | Bloomberg Barclays TIPS | 10.00% | -0.30% |
| Real Estate | NCREIF ODCE | 8.00% | 3.75% |
| Private Equity | Cambridge Private Equity | 8.00% | 6.00% |
| Portfolio Long-Term Expected Real Rate of Return, Net of Investment Expenses | | | 3.91% |
| Portfolio Standard Deviation | | | 12.84% |

Valuation Assumptions Chosen by PERSI Board

| | |
|--|--------------|
| Long-Term Expected Real Rate of Return, Net of Investment Expenses | 4.05% |
| Assumed Inflation | <u>2.30%</u> |
| Long-Term Expected Nominal Rate of Return, Net of Investment Expenses | 6.35% |

* As outlined in PERSI's investment policy.

** Net of investment expenses

Plan Membership Summary

| | <u>June 30, 2023</u> | <u>June 30, 2022</u> |
|--|----------------------|----------------------|
| Plan Membership | | |
| Active members - vested | 44,627 | 44,288 |
| Active members - non-vested | 32,041 | 30,121 |
| Retirees and beneficiaries | 54,680 | 53,190 |
| Terminated vested | 16,106 | 15,489 |
| Terminated non-vested | 35,968 | 34,714 |
| Total membership | 183,422 | 177,802 |
| | <u>2022 - 2023</u> | <u>2021 - 2022</u> |
| Changes in Retirees and Beneficiaries | | |
| Beginning of fiscal year | 53,190 | 50,891 |
| New retirements | 2,799 | 3,611 |
| Death of retiree/beneficiary | (1,309) | (1,312) |
| End of fiscal year | 54,680 | 53,190 |

Depletion Date Projection

GASB 67 and 68 generally require that a blended discount rate be used to measure the Total Pension Liability (the Actuarial Accrued Liability calculated using the Individual Entry Age Normal Cost Method). The long-term expected return on plan investments may be used to discount liabilities to the extent that the plan's Fiduciary Net Position (fair market value of assets) is projected to cover benefit payments and administrative expenses. A 20-year high quality (AA/Aa or higher) municipal bond rate must be used for periods where the Fiduciary Net Position is not projected to cover benefit payments and administrative expenses. Determining the discount rate under GASB 67 and 68 will often require that the actuary perform complex projections of future benefit payments and asset values.

- The Fiduciary net position as a percentage of total pension liabilities is 83.83% as of June 30, 2023.
- Employers participating in the System are required by statute to make contributions that are deemed to be sufficient to amortize any unfunded actuarial accrued liability over a period no greater than 25 years (Idaho Code 59-1322).
- Since the Fiduciary Net Position is growing to be equal to the actuarial accrued liability, there is no point in time at which it is projected to be insufficient to make projected benefit payments.
- GASB 67 and 68 specify that the projections regarding future solvency assume that plan assets earn the assumed rate of return and there are no future changes in the plan provisions or actuarial methods and assumptions, which means that the projections would not reflect any adverse future experience which might impact the plan's funded position.

Based on these circumstances, the detailed depletion date projections outlined in GASB 67 and 68 show that the Fiduciary Net Position is always projected to be sufficient to cover benefit payments and administrative expenses.

Net Pension Liability

| Net Pension Liability | June 30, 2023 | June 30, 2022 |
|---|----------------------|----------------------|
| Total pension liability | 24,686,512,681 | 23,288,243,222 |
| Fiduciary net position | 20,695,842,118 | 19,349,485,162 |
| Net pension liability / (asset) | 3,990,670,563 | 3,938,758,060 |
| Fiduciary net position as a % of total pension liability | 83.83% | 83.09% |
| Covered payroll | 4,234,182,185 | 3,926,999,249 |
| Net pension liability / (asset) as a % of covered payroll | 94.25% | 100.30% |

The total pension liability was determined by an actuarial valuation as of the measurement date, calculated based on the discount rate and actuarial assumptions below.

Discount Rate

| | | |
|--|-------|-------|
| Discount rate | 6.35% | 6.35% |
| Long-term expected rate of return, net of investment expense | 6.35% | 6.35% |
| Municipal bond rate | N/A | N/A |

The Fund's fiduciary net position was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the discount rate for calculating the total pension liability is equal to the long-term expected rate of return.

Other Key Actuarial Assumptions

The demographic assumptions that determined the total pension liability as of June 30, 2023, were based on the results of an actuarial experience study for the period July 1, 2015, to June 30, 2020.

| | | |
|--------------------------------------|------------------|------------------|
| Valuation date | July 1, 2023 | July 1, 2022 |
| Measurement date | June 30, 2023 | June 30, 2022 |
| Inflation | 2.30% | 2.30% |
| Salary increases including inflation | 3.05% | 3.05% |
| Actuarial cost method | Entry Age Normal | Entry Age Normal |

Changes in Net Pension Liability

| Changes in Net Pension Liability / (Asset) | Increase (Decrease) | | |
|--|--------------------------------|------------------------------------|--|
| | Total Pension Liability (a) | Plan Fiduciary Net Position (b) | Net Pension Liability / (Asset) (a) - (b) |
| Balances as of June 30, 2022 | \$23,288,243,222 | \$19,349,485,162 | \$3,938,758,060 |
| Changes for the year: | | | |
| Service cost ⁽¹⁾ | 637,491,431 | | 637,491,431 |
| Interest ⁽¹⁾⁽²⁾ | 1,480,236,878 | | 1,480,236,878 |
| Effect of plan changes | 22,917,868 | | 22,917,868 |
| Effect of economic/demographic gains or losses | 506,681,792 | | 506,681,792 |
| Effect of assumptions changes or inputs | 0 | | 0 |
| Benefit payments | (1,249,058,510) | (1,249,058,510) | 0 |
| Employer contributions | | 513,828,265 | (513,828,265) |
| Member contributions | | 335,646,335 | (335,646,335) |
| Net investment income | | 1,755,938,036 | (1,755,938,036) |
| Administrative expenses | | (9,997,170) | 9,997,170 |
| Balances as of June 30, 2023 | 24,686,512,681 | 20,695,842,118 | 3,990,670,563 |

⁽¹⁾Service cost and interest are measured before reflecting the effect of plan changes or assumption changes.

⁽²⁾Includes interest on total pension liability, service cost, and benefit payments

Sensitivity Analysis

The following presents the net pension liability of PERSI, calculated using the discount rate of 6.35%, as well as what PERSI's net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower (5.35%) or 1 percentage point higher (7.35%) than the current rate.

| | 1% Decrease 5.35% | Current Discount Rate 6.35% | 1% Increase 7.35% |
|---------------------------------|-------------------------|-----------------------------------|-------------------------|
| Total pension liability | \$27,873,227,382 | \$24,686,512,681 | \$22,081,970,973 |
| Fiduciary net position | \$20,695,842,118 | \$20,695,842,118 | \$20,695,842,118 |
| Net pension liability / (asset) | \$7,177,385,264 | \$3,990,670,563 | \$1,386,128,855 |

Schedule of Changes in Net Pension Liability and Related Ratios

| | Fiscal Year Ending June 30 | | | | | | | | | |
|---|----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 |
| Total Pension Liability | | | | | | | | | | |
| Service cost | \$637,491,431 | \$596,927,904 | \$513,205,361 | \$484,964,767 | \$461,646,272 | \$437,257,407 | \$406,910,895 | \$397,283,921 | \$384,419,252 | \$376,800,000 |
| Interest on total pension liability | 1,480,236,878 | 1,397,434,963 | 1,388,578,112 | 1,321,253,945 | 1,250,119,942 | 1,202,947,872 | 1,129,286,928 | 1,088,670,726 | 1,045,505,462 | 992,942,358 |
| Effect of plan changes | 22,917,868 | 274,272,094 | 5,638,304 | 372,935,449 | 0 | 84,200,000 | 12,200,000 | 67,800,000 | 150,400,000 | (1,300,000) |
| Effect of economic/demographic (gains) or losses | 506,681,792 | 457,371,784 | 26,369,372 | 166,634,457 | (105,480,176) | (38,113,799) | 273,580,592 | (104,512,779) | (105,531,304) | (111,248,209) |
| Effect of assumption changes or inputs | 0 | 0 | 1,136,086,143 | 0 | 0 | 104,724,103 | 0 | 13,100,000 | 0 | 74,600,000 |
| Benefit payments | (1,249,058,510) | (1,129,444,374) | (1,092,389,237) | (1,012,529,440) | (975,200,330) | (909,678,264) | (864,785,159) | (824,524,533) | (770,593,410) | (729,094,149) |
| Net change in total pension liability | 1,398,269,459 | 1,596,562,371 | 1,977,488,055 | 1,333,259,178 | 631,085,708 | 881,337,319 | 957,193,256 | 637,817,335 | 704,200,000 | 602,700,000 |
| Total pension liability, beginning | 23,288,243,222 | 21,691,680,851 | 19,714,192,796 | 18,380,933,618 | 17,749,847,910 | 16,868,510,591 | 15,911,317,335 | 15,273,500,000 | 14,569,300,000 | 13,966,600,000 |
| Total pension liability, ending (a) | 24,686,512,681 | 23,288,243,222 | 21,691,680,851 | 19,714,192,796 | 18,380,933,618 | 17,749,847,910 | 16,868,510,591 | 15,911,317,335 | 15,273,500,000 | 14,569,300,000 |
| Fiduciary Net Position | | | | | | | | | | |
| Employer contributions | \$513,828,265 | \$476,416,795 | \$450,951,588 | \$430,638,154 | \$390,080,902 | \$369,139,113 | \$356,367,389 | \$335,610,100 | \$321,240,628 | \$310,986,283 |
| Member contributions | 335,646,335 | 315,161,350 | 294,084,814 | 280,790,591 | 257,060,511 | 243,950,654 | 237,032,668 | 220,866,936 | 211,468,780 | 203,890,954 |
| Investment income net of investment expenses | 1,755,938,036 | (2,073,323,125) | 4,734,923,136 | 463,879,610 | 1,301,966,592 | 1,283,658,926 | 1,692,713,855 | 202,355,225 | 367,837,643 | 2,000,619,926 |
| Benefit payments | (1,249,058,510) | (1,129,444,374) | (1,092,389,237) | (1,012,529,440) | (975,200,330) | (909,678,264) | (864,785,159) | (824,524,533) | (770,593,410) | (729,094,149) |
| Administrative expenses | (9,997,170) | (9,984,308) | (8,972,053) | (10,179,831) | (9,276,642) | (8,922,335) | (8,810,136) | (6,806,655) | (6,434,462) | (6,787,811) |
| Net change in plan fiduciary net position | 1,346,356,956 | (2,421,173,662) | 4,378,598,248 | 152,599,084 | 964,631,033 | 978,148,094 | 1,412,518,617 | (72,498,927) | 123,519,179 | 1,779,615,203 |
| Fiduciary net position, beginning | 19,349,485,162 | 21,770,658,824 | 17,392,060,576 | 17,239,461,492 | 16,274,830,459 | 15,296,682,365 | 13,884,163,748 | 13,956,662,675 | 13,833,143,496 | 12,053,528,293 |
| Fiduciary net position, ending (b) | 20,695,842,118 | 19,349,485,162 | 21,770,658,824 | 17,392,060,576 | 17,239,461,492 | 16,274,830,459 | 15,296,682,365 | 13,884,163,748 | 13,956,662,675 | 13,833,143,496 |
| Net pension liability / (asset), ending = (a) - (b) | \$3,990,670,563 | \$3,938,758,060 | (\$78,977,973) | \$2,322,132,220 | \$1,141,472,126 | \$1,475,017,451 | \$1,571,828,226 | \$2,027,153,587 | \$1,316,837,325 | \$736,156,504 |
| Fiduciary net position as a % of total pension liability | 83.83% | 83.09% | 100.36% | 88.22% | 93.79% | 91.69% | 90.68% | 87.26% | 91.38% | 94.95% |
| Covered payroll | \$4,234,182,185 | \$3,926,999,249 | \$3,716,726,113 | \$3,546,033,069 | \$3,382,051,785 | \$3,200,396,203 | \$3,089,555,264 | \$2,909,277,267 | \$2,791,109,393 | \$2,702,945,352 |
| Net pension liability / (asset) as a % of covered payroll | 94.25% | 100.30% | -2.12% | 65.49% | 33.75% | 46.09% | 50.88% | 69.68% | 47.18% | 27.24% |

Schedule of Collective Pension Amounts

Changes in Net Pension Liability and Other Pension-Related Items During Fiscal Year

| Fiscal Year Ending | Beginning of Year Net Pension Liability/(Asset) | Deferred Outflows of Resources | | | | Deferred Inflows of Resources | | | Expense (Revenue) Changes to NPL | | End of Year Net Pension Liability/(Asset) |
|--------------------|---|--|------------------------|--|---|-------------------------------|--|--|----------------------------------|---------------------------------------|---|
| | | Between Projected and Actual Investment Earnings on Pension Plan Investments | Changes of Assumptions | Differences Between Expected and Actual Experience | Total Deferred Outflows of Resources Excluding Employer Specific Amounts ⁽¹⁾ | Changes of Assumptions | Differences Between Expected and Actual Experience | Total Deferred Inflows of Resources Excluding Employer Specific Amounts ⁽¹⁾ | Plan Pension Expense (Revenue) | Employer Contributions ⁽²⁾ | |
| 6/30/2023 | 3,938,758,060 | (531,678,492) | (246,975,248) | 250,911,578 | (527,742,162) | - | 17,580,028 | 17,580,028 | 1,069,753,081 | (507,678,444) | 3,990,670,563 |

Total Deferred Outflows and Inflows as of June 30, 2023

| Deferred Outflows of Resources | | | | Deferred Inflows of Resources | | |
|--|------------------------|--|---|-------------------------------|--|--|
| Between Projected and Actual Investment Earnings on Pension Plan Investments | Changes of Assumptions | Differences Between Expected and Actual Experience | Total Deferred Outflows of Resources Excluding Employer Specific Amounts ⁽¹⁾ | Changes of Assumptions | Differences Between Expected and Actual Experience | Total Deferred Inflows of Resources Excluding Employer Specific Amounts ⁽¹⁾ |
| 374,583,135 | 395,160,399 | 684,031,178 | 1,453,774,712 | - | - | - |

(1) Employer specific amounts that are excluded from this schedule are the changes in proportion as defined in paragraphs 54 and 55 of GASB Statement 68.

(2) Represent contributions that have been reported on the employers' records

Pension Expense

| Pension Expense | July 1, 2022 to June 30, 2023 | July 1, 2021 to June 30, 2022 |
|--|----------------------------------|----------------------------------|
| Service cost ⁽¹⁾ | \$637,491,431 | \$596,927,904 |
| Interest on total pension liability ⁽¹⁾ | 1,480,236,878 | 1,397,434,963 |
| Effect of plan changes | 22,917,868 | 274,272,094 |
| Administrative expenses | 9,997,170 | 9,984,308 |
| Member contributions | (335,646,335) | (315,161,350) |
| Other Income | (6,149,821) | (5,569,585) |
| Expected investment return net of investment expenses ⁽¹⁾ | (1,215,888,245) | (1,371,562,553) |
| Recognition of Deferred Inflows/Outflows of Resources | | |
| Recognition of economic/demographic gains or losses | 238,190,186 | 112,287,925 |
| Recognition of assumption changes or inputs | 246,975,248 | 264,429,267 |
| Recognition of investment gains or losses | (8,371,299) | 57,987,831 |
| Pension Expense | 1,069,753,081 | 1,021,030,804 |

(1) Service cost, interest on total pension liability, and expected investment return for the period ending June 30, 2023, are measured before reflecting the effect of plan changes or assumption changes.

As of June 30, 2023, the deferred inflows and outflows of resources are as follows:

| Deferred Inflows / Outflows of Resources | Deferred Inflows of Resources | Deferred Outflows of Resources |
|--|----------------------------------|-----------------------------------|
| Differences between expected and actual experience | \$0 | \$684,031,178 |
| Changes of assumptions | 0 | 395,160,399 |
| Net difference between projected and actual earnings | 0 | 374,583,135 |
| Contributions made subsequent to measurement date | <u>0</u> | <u>0</u> |
| Total | 0 | 1,453,774,712 |
| Net deferred inflows and outflows | \$1,453,774,712 | |

Amounts currently reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

| | |
|---------------------|-----------------|
| Year ended June 30: | |
| 2024 | \$516,993,843 |
| 2025 | 242,949,531 |
| 2026 | 755,779,317 |
| 2027 | (61,947,979) |
| 2028 | 0 |
| Thereafter | <u>0</u> |
| Total | \$1,453,774,712 |

Note that additional future deferred inflows and outflows of resources will impact these numbers.

Schedule of Deferred Inflows and Outflows of Resources

| | Original Amount | Date Established | Original Recognition Period* | Amount Recognized in 06/30/2023 Expense | Balance of Deferred Inflows 06/30/2023 | Balance of Deferred Outflows 06/30/2023 |
|---|--------------------|---------------------|------------------------------------|--|---|--|
| Investment (gains) or losses | (\$166,279,620) | 06/30/2019 | 5.0 | (\$33,255,924) | \$0 | \$0 |
| | 740,716,649 | 06/30/2020 | 5.0 | 148,143,330 | 0 | 148,143,329 |
| | (3,521,129,416) | 06/30/2021 | 5.0 | (704,225,883) | (1,408,451,767) | 0 |
| | 3,444,885,678 | 06/30/2022 | 5.0 | 688,977,136 | 0 | 2,066,931,406 |
| | (540,049,791) | 06/30/2023 | 5.0 | <u>(108,009,958)</u> | <u>(432,039,833)</u> | <u>0</u> |
| | | Total | | (8,371,299) | (1,840,491,600) | 2,215,074,735 |
| Economic/demographic (gains) or losses | (105,480,176) | 06/30/2019 | 4.8 | (17,580,028) | 0 | 0 |
| | 166,634,457 | 06/30/2020 | 4.7 | 35,454,140 | 0 | 24,817,897 |
| | 26,369,372 | 06/30/2021 | 4.6 | 5,732,472 | 0 | 9,171,956 |
| | 457,371,784 | 06/30/2022 | 4.6 | 99,428,649 | 0 | 258,514,486 |
| | 506,681,792 | 06/30/2023 | 4.4 | <u>115,154,953</u> | <u>0</u> | <u>391,526,839</u> |
| | | Total | | 238,190,186 | 0 | 684,031,178 |
| Assumption changes or inputs | 0 | 06/30/2019 | 0.0 | 0 | 0 | 0 |
| | 0 | 06/30/2020 | 0.0 | 0 | 0 | 0 |
| | 1,136,086,143 | 06/30/2021 | 4.6 | 246,975,248 | 0 | 395,160,399 |
| | 0 | 06/30/2022 | 0.0 | 0 | 0 | 0 |
| | 0 | 06/30/2023 | 0.0 | <u>0</u> | <u>0</u> | <u>0</u> |
| | | Total | | 246,975,248 | 0 | 395,160,399 |

* Investment (gains)/losses are recognized in pension expense over a period of five years; economic/demographic (gains)/losses and assumption changes or inputs are recognized over the average remaining service life for all active and inactive members.

Pension Liability and Expense Summary

| | Total Pension (Liability) | Plan Fiduciary Net Position | Net Pension (Liability) / Asset | Deferred Inflows | Deferred Outflows | Net Deferrals | Net Pension Liability plus Net Deferrals | Annual Expense |
|--|---------------------------------|-----------------------------------|---------------------------------------|---------------------|----------------------|------------------|--|-------------------|
| Balances as of June 30, 2022 | (\$23,288,243,222) | \$19,349,485,162 | (\$3,938,758,060) | (\$2,163,513,602) | \$4,127,450,448 | \$1,963,936,846 | (\$1,974,821,214) | |
| Service cost | (637,491,431) | | (637,491,431) | | | | | 637,491,431 |
| Interest on total pension liability | (1,480,236,878) | | (1,480,236,878) | | | | | 1,480,236,878 |
| Effect of plan changes | (22,917,868) | | (22,917,868) | | | | | 22,917,868 |
| Effect of liability gains or losses | (506,681,792) | | (506,681,792) | | 506,681,792 | 506,681,792 | | |
| Effect of assumption changes or inputs | 0 | | 0 | | | 0 | | |
| Benefit payments | 1,249,058,510 | (1,249,058,510) | 0 | | | | | |
| Administrative expenses | | (9,997,170) | (9,997,170) | | | | | 9,997,170 |
| Member contributions | | 335,646,335 | 335,646,335 | | | | | (335,646,335) |
| Other Income | | 6,149,821 | 6,149,821 | | | | | (6,149,821) |
| Expected investment income (net of inv expenses) | | 1,215,888,245 | 1,215,888,245 | | | | | (1,215,888,245) |
| Investment gains or losses | | 540,049,791 | 540,049,791 | (540,049,791) | | (540,049,791) | | |
| Employer contributions | | 507,678,444 | 507,678,444 | | | | 507,678,444 | |
| Recognition of liability gains or losses | | | | 17,580,028 | (255,770,214) | (238,190,186) | | 238,190,186 |
| Recognition of assumption changes or inputs | | | | | (246,975,248) | (246,975,248) | | 246,975,248 |
| Recognition of investment gains or losses | | | | 845,491,765 | (837,120,466) | 8,371,299 | | (8,371,299) |
| Annual expense | | | | | | | (1,069,753,081) | 1,069,753,081 |
| Balances as of June 30, 2023 | (24,686,512,681) | 20,695,842,118 | (3,990,670,563) | (1,840,491,600) | 3,294,266,312 | 1,453,774,712 | (2,536,895,851) | |

Glossary

| | |
|---|--|
| Actuarially Determined Contribution | <p>A target or recommended contribution to a defined benefit pension plan for the reporting period, determined based on the funding policy and most recent measurement available when the contribution for the reporting period was adopted.</p> <p>The system defines their Actuarially Determined Contribution as the contribution rate necessary to fully fund the system over a period of 25 years based on the valuation results two years prior to this measurement date. See our Actuarial Valuation reports for more details on this calculation. Starting with the July 1, 2023, valuation this has changed. Due to the two year lag, this change will first be shown in the fiscal year July 1, 2024, to June 30, 2025, GASB report.</p> |
| Deferred Inflows/Outflows of Resources | <p>Portion of changes in net pension liability that is not immediately recognized in Pension Expense. These changes include differences between expected and actual experience, changes in assumptions, and differences between expected and actual earnings on plan investments.</p> |
| Discount Rate | <p>Single rate of return that, when applied to all projected benefit payments, results in an actuarial present value of projected benefit payments equal to the</p> <ol style="list-style-type: none">1) The actuarial present value of benefit payments projected to be made in future periods where the plan assets are projected to be sufficient to meet benefit payments, calculated using the Long-Term Expected Rate of2) The actuarial present value of projected benefit payments not included in (1), calculated using the Municipal Bond Rate. |
| Fiduciary Net Position | <p>Equal to market value of assets.</p> |
| Long-Term Expected Rate of Return | <p>Long-term expected rate of return on pension plan investments expected to be used to finance the payment of benefits, net of investment expenses.</p> |
| Money-Weighted Rate of Return | <p>The internal rate of return on pension plan investments, net of investment expenses.</p> |
| Municipal Bond Rate | <p>Yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher.</p> |
| Net Pension Liability / (Asset) | <p>Total Pension Liability minus the Plan's Fiduciary Net Position (unfunded accrued liability).</p> |

Glossary

| | |
|-----------------------------------|--|
| Projected Benefit Payments | All benefits estimated to be payable through the pension plan to current active and inactive employees as a result of their past service and expected future service. |
| Service Cost | The portion of the actuarial present value of projected benefit payments that is attributed to a valuation year. |
| Total Pension Liability | The portion of actuarial present value of projected benefit payments that is attributable to past periods of member service using the Entry Age Normal cost method based on the requirements of GASB 67. |