## Wlashington State



September 2014


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## Letter of Introduction

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"Securing tomorrow's pensions today."

## Letter of Introduction Report of the Combined Actuarial Valuation As of June 30, 2013

September 2014

As required under Chapter 41.45 RCW, this report documents the results of an actuarial valuation of the following Washington State retirement systems.

* Public Employees' Retirement System.
* Teachers' Retirement System.
* School Employees' Retirement System.
* Public Safety Employees' Retirement System.
* Law Enforcement Officers' and Fire Fighters' Retirement System.
* Washington State Patrol Retirement System.

The primary purpose of this valuation is to determine contribution requirements for the systems listed above for the plan year ending June 30, 2013, under the funding policy established by the Legislature. This valuation also provides information on the funding progress and developments in the plans over the past year.

This report is organized in the following four sections.

- Summary of Key Results.
* Actuarial Exhibits.
* Participant Data.
* Appendices.

The Summary of Key Results section provides a high-level summary of the valuation results for all systems combined. The next two sections of the report provide detailed actuarial asset and liability information and participant data for each system and plan separately. The Appendices provide a summary of the principal actuarial assumptions and methods, a summary of the major plan provisions, and additional information used to prepare this valuation.

We encourage you to submit any questions you might have concerning this report to our regular address or our e-mail address at state.actuary@leg.wa.gov. We also invite you to visit our website (osa.leg.wa.gov), for further information regarding the actuarial funding of the Washington State retirement systems.

Sincerely,


Matthew M. Smith, FCA, EA, MAAA
State Actuary


Lisa A. Won, ASA, FCA, MAAA
Senior Actuary

## 1 <br> Summary of Key Results



## Intended Use

The purpose of this report is to develop contribution rates required to fund the Washington State retirement systems based on the funding policy described in this section. This
report provides information on the contribution rates, funding progress, and developments in the plans over the past year. This report also discloses the data, assumptions, and methods
from the previous valuation. The Actuarial
Exhibits section of this report shows how we developed these rates.

No member or employer/state contributions are required for the Law Enforcement Officers' and Fire Fighters' Retirement System (LEOFF) Plan 1 when the plan remains fully funded. See RCW 41.26.080(2).

Minimum employer contribution rates adopted by the Legislature for the Public Employees' Retirement System (PERS) Plan 1 and the Teachers' Retirement System (TRS) Plan 1 become effective at the beginning of the 2015-17 Biennium.

During the 2014 Interim, the Pension Funding Council (PFC) and LEOFF Plan 2 Retirement Board (LEOFF 2 Board) adopted different rates than those calculated in the 2013 valuation. The PFC adopted contribution rates lower than the
we used to develop the contribution rates. This report is not intended to satisfy the accounting requirements under the Governmental Accounting Standards Board rules (GASB).
rates calculated in this valuation as part of a three-biennium phase-in. The LEOFF 2 Board adopted higher contribution rates that match the contribution rates collected over the 2013-15 Biennium. The adopted rates are shown in the Actuarial Exhibits section of this report and further information is available in the Actuarial Certification Letter.

## Contribution Rate-Setting Cycle

Under current Washington State law, in July of even-numbered years, the PFC reviews the basic contribution rates calculated by OSA based on an actuarial valuation performed on asset, participant, and plan information compiled in odd-numbered years. In calculating basic contribution rates, OSA applies the statutory funding policies described in this section.

## Funding Policy

Washington State relies on systematic actuarial funding to finance the on-going cost of the state retirement systems. Under this financing approach, we reduce the cost of future pension payments by the expected long-term return on invested contributions.

The state's funding policy is found in Chapter 41.45 RCW - Actuarial Funding of State Retirement Systems. It includes the following goals — to:

- Provide a dependable and systematic process for funding the benefits to members and retirees of the Washington State retirement systems.
- Fully fund the retirement system Plans 2 and 3, and Washington State Patrol Retirement System (WSPRS), as provided by law.

The PFC may adopt changes to contribution rates by an affirmative vote of at least four members. The basic rates adopted by the PFC will remain in place for the ensuing biennium, subject to revision by the Legislature. The LEOFF 2 Board performs these duties for LEOFF 2 under the same cycle.

- Fully amortize the total cost of LEOFF Plan 1 not later than June 30, 2024.
- Fully amortize the Unfunded Actuarial Accrued Liability (UAAL) in PERS Plan 1 and TRS Plan 1 within a rolling ten-year period using methods and assumptions that balance needs for increased benefit security, decreased contribution rate volatility, and affordability of pension contribution rates.
- Establish long-term employer contribution rates that will remain a relatively predictable proportion of future state budgets.
- Fund, to the extent feasible, all benefits for Plans 2 and 3 members over the working lives of those members so that the taxpayers who receive the benefit of those members' service pay the cost of those benefits.

RCW 41.45.070 requires that a temporary and supplemental contribution rate increase be charged to fund the cost of benefit enhancements enacted following the adoption of the basic rates. Supplemental contribution rates are included in the basic rates at the beginning of the next contribution rate-setting cycle.

Based on the funding policy, the same contribution rate is charged to employers within each system regardless of the plan in which employees hold membership (except for LEOFF). In addition, all benefit increases that become effective after June 30, 2009, for PERS Plan 1 and TRS Plan 1 members, are funded over a fixed ten-year period.

The Washington State Investment Board (WSIB) directs the investment of retirement system contributions. RCW 43.33A. 110 requires WSIB to maximize investment returns at a prudent level of risk.

## Comments on 2013 Results

Many factors can influence how actuarial valuation results change from one measurement date to the next. Those factors include changes in the covered population, changes in plan provisions, assumptions, and methods, and experience that varies from our expectations.

For this valuation, assumption changes explain most of the changes from last year's report. For all systems, expect LEOFF 2, we lowered the long-term assumed rate of investment return from 7.9 to 7.8 percent consistent with state law. We also changed the projection scale we use to estimate future improvement in rates of mortality from 50 percent of Scale AA to 100 percent of Scale BB. Both of these assumption changes lead to lower funded status and higher contribution rates than calculated last valuation.

We observed no significant changes in the covered population and there were no changes in plan provisions. We also made no significant changes to our actuarial methods.
In terms of annual plan experience, the actual rate of investment return was 12.36 percent and above the assumed rate. However, the rate of investment return on the actuarial (or smoothed) value of assets was lower than expected for the plan year. We also observed lower than expected salary growth for the year when estimating plan liabilities.

Detailed gain and loss information by system can be found in the Actuarial Exhibits section of this report. Please see the Actuarial Certification Letter for additional comments on the 2013 valuation results.


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## Actuarial Liabilities

The table to the far right summarizes key measures of actuarial liability along with the liabilities from last year's valuation. The Future Value of Fully Projected Benefits represents the total expected value of all future benefit payments for all members of all systems as of the valuation date. The Present Value of Fully Projected Benefits represents today's value of the Future Value of Fully Projected Benefits when we discount future benefit payments with the valuation interest rate. In other words, if we invest the Present Value of Fully Projected Benefits as a lump sum amount at the valuation date and earn the valuation interest rate each year, there would be enough money to pay all expected future benefit payments for current members.

The Present Value of Accrued (Earned) Benefits identifies the portion of the present value of future benefits that has been "earned" as of the
valuation date based on the Projected Unit Credit (PUC) actuarial cost method. The UAAL represents the excess, if any, of the Present Value of Accrued Benefits at the valuation date over the Actuarial Value of Assets. In other words, the UAAL equals the present value of benefits earned at the valuation date not covered by current actuarial assets.

See the Actuarial Exhibits section of this report for a summary of actuarial liabilities by system and plan and a disclosure of expected future benefit payments by year for each system and plan. Also, see the Glossary for brief explanations of the actuarial terms.

## Assets

The table on the right shows the combined Market Value of Assets and Actuarial (or smoothed) Value of Assets along with approximate rates of investment return.

To limit the volatility in contribution rates and funded status due to short-term market fluctuations, we smooth (or defer) the difference between actual and expected annual investment returns over a period not to exceed eight years. The Actuarial Value of Assets equals the Market Value of Assets less the Total Deferred Investment Gains and (Losses) at the valuation date. The Actuarial Value of Assets can never be less than 70 percent or greater than 130 percent of the Market Value of Assets.

| Actuarial Liabilities |  |  |
| :--- | ---: | ---: |
| (Dollars in Millions) |  |  |
| All Systems | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 2}$ |
| Future Value of Fully Projected Benefits | $\$ 559,013$ | $\$ 436,407$ |
| Present Value of Fully Projected Benefits | 88,888 | 79,397 |
| Present Value of Accrued (Earned) Benefits | 69,828 | 62,578 |
| Unfunded Actuarial Accrued Liability* | $\$ 6,245$ | $\$ 4,132$ |
| Valuation Interest Rate** | $7.80 \%$ | $7.90 \%$ |

*For PERS 1, TRS 1, and LEOFF 1.
** $7.50 \%$ in LEOFF 2.

| Assets |  |  |
| :--- | ---: | ---: |
| (Dollars in Millions) | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 2}$ |
| All Systems |  |  |
| Market Value of Assets | $\$ 62,213$ | $\$ 56,753$ |
| Actuarial Value of Assets | 65,458 | 63,122 |
| Contributions* | 1,807 | 1,754 |
| Disbursements | 3,302 | 3,137 |
| Investment Return | 6,907 | 747 |
| Other** | $\$ 48$ | $\$ 39$ |
| Rate of Return on Assets*** | $12.36 \%$ | $1.40 \%$ |

See the Actuarial Exhibits section of this report for a summary of assets by system and plan, and for the development of the Actuarial Value of Assets.

## *Employee and Employer.

**Includes transfers, restorations, payables, etc.
***This is the time-weighted rate of return on the Market Value of Assets, net of expenses. The Actuarial Value of Assets is used in determining contribution rates.

## Funded Status

The funded status helps readers evaluate the health of a pension plan. A history of funded status measured consistently over a defined period helps readers evaluate a plan's funding progress over time. The funded status represents the portion of the present value of earned benefits covered by today's actuarial assets. A plan with a 100 percent funded status has one dollar in actuarial assets for each dollar of earned (or accrued) liability at the valuation date. A plan with a funded status of at least 100 percent is generally considered to be on target with its financing plan. However, a plan more/less than 100 percent funded is not automatically considered over-funded/at-risk.
We use the PUC actuarial cost method to report the funded status of the plans. The PUC method takes into account future salary and service growth for purposes of determining future benefit amounts and eligibility for those benefits, but only reflects service credit earned at the valuation date for determining earned (or accrued) benefits.

## Participant Data

The next table summarizes participant data used in the actuarial valuation for the plan year ending June 30, 2013, along with information from last year's valuation. See the Participant Data section of this report for participant data summarized by system and plan.

Comparing the PUC liabilities to the Actuarial Value of Assets provides an appropriate measure of a plan's funded status. Under current GASB rules, the PUC method is one of several acceptable measures of a plan's funded status. Use of another cost method could also be considered appropriate and could produce materially different results.

GASB Statements 67 and 68 become effective after June 15,2015 , replace the current GASB Statements, and require use of the Entry Age Normal Cost Method (EANC) for accounting purposes. We will begin reporting the EANC funded status with the next actuarial valuation report, as of June 30, 2014, to improve consistency between this funding report and future accounting disclosures.

We did not use the PUC cost method to determine contribution requirements in
this valuation. Please see the Glossary for a more detailed explanation of PUC.

The following table displays the funded status for all the systems combined. We provide this table for summarization purposes only. Assets from an individual qualified retirement plan may not be used to fund benefits from another plan. See the Actuarial Exhibits section of this report for the funded status by system and plan. We also provide a history of funded status since 1986 and funded status under alternate assumptions and methods in the Actuarial Exhibits section.

| Funded Status |  |  |
| :--- | :---: | :---: | :---: |
| (Dollars in Millions) |  |  |
| All Systems | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 2}$ |
| a. Projected Unit Credit Liability | $\$ 69,828$ | $\$ 62,578$ |
| b. Market Value of Assets | 62,213 | 56,753 |
| c. Deferred Gains/(Losses) | $(3,245)$ | $(6,369)$ |
| d. Actuarial Value of Assets (b-c) | 65,458 | 63,122 |
| e. Unfunded Liability (a-d) | $\$ 4,370$ | $(\$ 544)$ |
| f. Projected Unit Credit Funded Ratio (d/a) | $94 \%$ | $101 \%$ |
| Note: Totals may not agree due to rounding. |  |  |


| Participant Data |  |  |
| :--- | ---: | ---: |
| All Systems | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 2}$ |
| Active Members |  |  |
| Number | 291,345 | 289,727 |
| Total Salaries (in Millions) | $\$ 16,522$ | $\$ 16,245$ |
| Average Annual Salary | $\$ 56,710$ | $\$ 56,069$ |
| Average Attained Age | 47.7 | 47.8 |
| Average Service | 12.4 | 12.4 |
| Retirees and Beneficiaries | 150,145 | 143,942 |
| Number | $\$ 21,637$ | $\$ 21,321$ |
| Average Annual Benefit |  |  |
| Terminated Members | 53,356 | 51,808 |
| Number Vested | 118,332 | 116,109 |
| Number "Non-Vested" |  |  |$u$ ummary of Key Results 8

## Key Assumptions

This table displays key economic assumptions used in the actuarial valuation.

| Key Assumptions |  |
| :---: | :---: |
| All Systems |  |
| Valuation Interest Rate* | 7.80\% |
| Salary Increase | 3.75\% |
| Inflation | 3.00\% |
| Growth in Membership** | 0.95\% |
| *7.50\% in LEOFF 2. |  |
| **0.80\% in TRS; 1.25\% in Used for the amortizatio TRS 1, and LEOFF 1 UA |  |

We also reviewed and updated demographic assumptions during our recent experience study. The Experience Study Report, available on our website, discloses all the assumption changes
from the last valuation. See the Actuarial Methods and Assumptions in the Appendix for a detailed listing of assumptions used in this valuation.


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## Actuarial Exhibits



## Actuarial Certification Letter

## Office of the State Actuary

## "Securing tomorrow's pensions today."

# Actuarial Certification Letter <br> Report of the Combined Actuarial Valuation As of June 30, 2013 

September 2014

This report documents the results of an actuarial valuation of the retirement plans defined under Chapters 41.26, 41.32, $41.35,41.37,41.40$, and 43.43 of the Revised Code of Washington. The primary purpose of this valuation is to determine contribution requirements for the retirement plans as of the June 30, 2013, valuation date consistent with the prescribed funding policies. This valuation also provides information on the funding progress and developments in the plans over the past year. This valuation report should not be used for other purposes. Please replace this report with a more recent report when available.

The valuation results summarized in this report involve calculations that require assumptions about future economic and demographic events. We believe that the assumptions and methods used in the underlying valuation are reasonable and appropriate for the primary purpose stated above. The use of another set of assumptions and methods, however, could also be reasonable and could produce materially different results. Actual results may vary from our expectations.

The assumptions used in this valuation for investment return, inflation, salary growth, and membership growth were prescribed by the Legislature. Please see our latest Economic Experience Study report for further information on the economic assumptions. We developed the demographic assumptions used in this valuation during the 2007-2012 Demographic Experience Study. The Legislature was responsible for the selection of the actuarial cost and asset valuation methods. In our opinion, all methods, assumptions, and calculations are reasonable and are in conformity with generally accepted actuarial principles and standards of practice as of the date of this publication.

The Department of Retirement Systems (DRS) provided us with member and beneficiary data. We checked the data for reasonableness as appropriate based on the purpose of the valuation. The Washington State Investment Board (WSIB) and

[^0]$f$ in

DRS provided financial and asset information. An audit of the financial and participant data was not performed. We relied on all the information provided as complete and accurate. In our opinion, this information is adequate and substantially complete for purposes of this valuation.

The asset smoothing method adopted during the 2003 Legislative Session (Chapter 11, Laws of 2003, E1) was intended to address the volatility of contribution rates under the aggregate funding method when used in combination with the existing asset allocation policy of WSIB. The combination of the current asset smoothing method with any other funding method or asset allocation policy may not be appropriate. The Legislature may need to revisit the application of the current asset smoothing method with the Plan 1 funding method as the duration of liabilities in those plans becomes shorter.

Under legislation enacted in 2009 (Chapter 561, Laws of 2009), the Unfunded Actuarial Accrued Liability (UAAL) in the Public Employees' Retirement System (PERS) and the Teachers' Retirement System (TRS) Plans 1 must be amortized over a rolling ten-year period, as a level percentage of projected system payroll. The projected payroll includes pay from current members of PERS and TRS Plans $2 / 3$, as well as projected payroll from future new members. For PERS, the projected payroll includes payroll from retirement systems previously covered under PERS. This is a non-standard amortization method since it includes payroll outside the plan. Additionally, the funding method includes minimum contribution rates effective at the beginning of the 2015-17 Biennium. All contributions required under this method are necessary to fully amortize the UAAL in these plans near the previous target date of June 30, 2024. Failure to make all future required contributions may result in premature plan insolvency.

The undersigned, with actuarial credentials, meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. While this report is intended to be complete, we are available to offer extra advice and explanations as needed.

Sincerely,


Matthew M. Smith, FCA, EA, MAAA State Actuary


Lisa A. Won, ASA, FCA, MAAA
Senior Actuary

## Contribution Rates

|  | Plan 1 |  | Plan 2/3 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2012 | 2013 | 2012 |
| PERS |  |  |  |  |
| Member* | 6.00\% | 6.00\% | 7.00\% | 4.83\% |
| Employer (Normal Cost) | 7.11\% | 4.94\% | 7.11\% | 4.94\% |
| Employer (Plan 1 UAAL) | 5.18\% | 4.21\% | 5.18\% | 4.21\% |
| Total Employer | 12.29\% | 9.15\% | 12.29\% | 9.15\% |
| TRS |  |  |  |  |
| Member* | 6.00\% | 6.00\% | 6.79\% | 4.95\% |
| Employer (Normal Cost) | 7.56\% | 5.72\% | 7.56\% | 5.72\% |
| Employer (Plan 1 UAAL) | 6.91\% | 4.96\% | 6.91\% | 4.96\% |
| Total Employer | 14.47\% | 10.68\% | 14.47\% | 10.68\% |
| SERS |  |  |  |  |
| Member* | N/A | N/A | 6.70\% | 4.59\% |
| Employer (Normal Cost) | N/A | N/A | 7.70\% | 5.59\% |
| Employer (PERS Plan 1 UAAL) | N/A | N/A | 5.18\% | 4.21\% |
| Total Employer | N/A | N/A | 12.88\% | 9.80\% |
| PSERS |  |  |  |  |
| Member | N/A | N/A | 6.89\% | 6.07\% |
| Employer (Normal Cost) | N/A | N/A | 6.89\% | 6.07\% |
| Employer (PERS Plan 1 UAAL) | N/A | N/A | 5.18\% | 4.21\% |
| Total Employer | N/A | N/A | 12.07\% | 10.28\% |
| LEOFF |  |  |  |  |
| Member | 0.00\% | 0.00\% | 7.97\% | 7.74\% |
| Employer | 0.00\% | 0.00\% | 4.78\% | 4.64\% |
| State (Normal Cost) | 0.00\% | 0.00\% | 3.19\% | 3.10\% |
| State (Plan 1 UAAL) | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Total State | 0.00\% | 0.00\% | 3.19\% | 3.10\% |
| WSPRS |  |  |  |  |
| Member | 7.19\% | 6.44\% | 7.19\% | 6.44\% |
| Employer (State) | 8.79\% | 7.76\% | 8.79\% | 7.76\% |

[^1]*Plan 3 members do not contribute to the defined benefit plan.

| Development of 2013 Employer/State Rates |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS |  | TRS |  | SERS | PSERS | LEOFF |  | WSPRS |
|  | Plan 1 | Plan 2/3 | Plan 1 | Plan 2/3 | Plan 2/3 | Plan 2 | Plan 1 | Plan 2 |  |
| a. Total Normal Cost | 13.11\% | 14.11\% | 13.56\% | 14.35\% | 14.40\% | 13.78\% | 0.00\% | 15.94\% | 15.98\% |
| b. Member Normal Cost* | 6.00\% | 7.00\% | 6.00\% | 6.79\% | 6.70\% | 6.89\% | 0.00\% | 7.97\% | 7.19\% |
| c. Employer Contribution (a-b) | 7.11\% | 7.11\% | 7.56\% | 7.56\% | 7.70\% | 6.89\% | 0.00\% | 7.97\% | 8.79\% |
| d. Cost to Amortize UAAL | 5.18\% | 5.18\% | 6.91\% | 6.91\% | 5.18\% | 5.18\% | 0.00\% | 0.00\% | N/A |
| e. Total Employer Rate ( $\mathrm{c}+\mathrm{d}$ )** | 12.29\% | 12.29\% | 14.47\% | 14.47\% | 12.88\% | 12.07\% | 0.00\% | 4.78\% | 8.79\% |

Employer rates exclude administrative expense rate.
*Plan 3 members do not contribute to the defined benefit plan.
**The state pays $20 \%$ of the total normal cost for LEOFF 2. This reduces the total employer contribution rate from $7.97 \%$ to $4.78 \%$.

| TRS Plan 2 Maximum Member Contribution Rates |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Valuation Year | Prior Max | Supplemental | Source | New Max |
| $\mathbf{2 0 1 3}$ | $8.64 \%$ | $0.00 \%$ | N/A | $8.64 \%$ |
| $\mathbf{2 0 1 2}$ | $8.64 \%$ | $0.00 \%$ | N/A | $8.64 \%$ |
| $\mathbf{2 0 1 1}$ | $8.64 \%$ | $0.00 \%$ | N/A | $8.64 \%$ |
| $\mathbf{2 0 1 0}$ | $8.63 \%$ | $0.01 \%$ | C 5 L 11 | $8.64 \%$ |
| $\mathbf{2 0 0 9}$ | $8.63 \%$ | $0.00 \%$ | N/A | $8.63 \%$ |
| $\mathbf{2 0 0 8}$ | $8.63 \%$ | $0.00 \%$ | N/A | $8.63 \%$ |
| $\mathbf{2 0 0 7}$ | $8.55 \%$ | $0.08 \%$ | C 101 L 08 | $8.63 \%$ |
| $\mathbf{2 0 0 6}$ | $7.76 \%$ | $0.79 \%$ | C 50 L 07 | $8.55 \%$ |
| $\mathbf{2 0 0 5}$ | $7.75 \%$ | $0.01 \%$ | C 33 L 06 | $7.76 \%$ |
| $\mathbf{2 0 0 4}$ | $7.75 \%$ | $0.00 \%$ | N/A | $7.75 \%$ |
| $\mathbf{2 0 0 3}$ | $7.75 \%$ | $0.00 \%$ | N/A | $7.75 \%$ |
| $\mathbf{2 0 0 2}$ | $7.75 \%$ | $0.00 \%$ | N/A | $7.75 \%$ |
| $\mathbf{2 0 0 1}$ | $7.75 \%$ | $0.00 \%$ | N/A | $7.75 \%$ |
| $\mathbf{2 0 0 0}$ | $7.75 \%$ | $0.00 \%$ | N/A | $7.75 \%$ |
| $\mathbf{1 9 9 9}$ | $6.59 \%$ | $1.16 \%$ | C 247 L 00 | $7.75 \%$ |
| $\mathbf{1 9 9 8}$ | $6.59 \%$ | $0.00 \%$ | N/A | $6.59 \%$ |
| $\mathbf{1 9 9 7}$ | N/A | N/A | N/A | $6.59 \%$ |


| WSPRS Plan $1 / 2$ Maximum Member Contribution Rates |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Valuation Year | Prior Max | Supplemental | Source | New Max |
| 2013 | 7.19\% | 0.00\% | N/A | 7.19\% |
| 2012 | 7.19\% | 0.00\% | N/A | 7.19\% |
| 2011 | 7.19\% | 0.00\% | N/A | 7.19\% |
| 2010 | 7.19\% | 0.00\% | N/A | 7.19\% |
| 2009 | 7.18\% | 0.01\% | C 261 L 10 | 7.19\% |
| 2008 | 6.95\% | 0.23\% | C 522 L 09 | 7.18\% |
| 2007 | 6.95\% | 0.00\% | N/A | 6.95\% |
| 2006* | N/A | N/A | N/A | 6.95\% |

Note: Maximum member contribution rates change each year by 50\% of the total supplemental contribution rates shown in the previous valuation.

* The original maximum contribution rate of $7 \%$ was decreased by $0.05 \%$ for C 87 L 07 .

Note: Maximum member contribution rates change each year by 50\% of the total supplemental contribution rates shown in the previous valuation.

The tables on the following pages show the development of the normal cost rates. Consistent with current funding policy, the normal cost rates include minimum contribution rates to provide stable and adequate contribution rates over time. The minimum rates
are a percent of the normal cost calculated under the Entry Age Normal (EAN) funding method. The percent varies by plan. Please see the Glossary for a more detailed explanation of EAN.


| $\$ 247,788$ | $\$ 115,746$ | $\$ 29,207$ | $\$ 9,117$ | $\$ 85,177$ | $\$ 7,130$ |
| ---: | ---: | ---: | ---: | ---: | ---: |
| $\$ 33,404$ | $\$ 12,025$ | $\$ 4,495$ | $\$ 595$ | $\$ 10,314$ | $\$ 1,132$ |
| 24,335 | 8,406 | 3,335 | 224 | 7,862 | 1,009 |
| 9,069 | 3,619 | 1,160 | 371 | 2,451 | 122 |
| 53 | 209 | 66 | 0 | 0 | 10 |
| $\$ 9,016$ | $\$ 3,410$ | $\$ 1,094$ | $\$ 371$ | $\$ 2,451$ | $\$ 113$ |
| $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\$ 372$ |
| 56,952 | 7,650 | 4,740 | 2,694 | 17,563 | 396 |
| 14,870 | 34,920 | 6,862 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| $\$ 128,774$ | $\$ 50,220$ | $\$ 16,341$ | $\$ 5,389$ | $\$ 35,126$ | $\$ 1,536$ |
| $7.00 \%$ | $6.79 \%$ | $6.70 \%$ | $6.89 \%$ | $6.98 \%$ | $7.33 \%$ |
| $4.40 \%$ | $5.42 \%$ | $4.64 \%$ | $5.93 \%$ | $7.97 \%$ | $6.82 \%$ |
| $\mathrm{~N} / \mathrm{A}$ | $8.64 \%$ | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $7.19 \%$ |
| $7.00 \%$ | $6.79 \%$ | $6.70 \%$ | $6.89 \%$ | $7.97 \%$ | $7.19 \%$ |
| $0.00 \%$ | $0.00 \%$ | $0.00 \%$ | $0.00 \%$ | $0.00 \%$ | $0.00 \%$ |
| $7.00 \%$ | $6.79 \%$ | $6.70 \%$ | $6.89 \%$ | $7.97 \%$ | $7.19 \%$ |








## Amortization of the Plan 1 Unfunded Actuarial Accrued Liability (UAAL)

| (Dollars in Millions) | PERS 1 | TRS 1 | LEOFF 1 |
| :---: | :---: | :---: | :---: |
| a. Future Value of Fully Projected Benefits | \$30,891 | \$22,455 | \$11,500 |
| b. Present Value of Fully Projected Benefits (PVFB) | \$13,012 | \$9,491 | \$4,420 |
| c Valuation Assets | \$8,053 | \$6,717 | \$5,516 |
| d. Actuarial Present Value of Future Normal Costs | \$140 | \$68 | \$0 |
| e. Balance of Plan 1 Benefit Improvements After 2009 | \$127 | \$57 | N/A |
| f. $\operatorname{UAAL}(\mathrm{b}-\mathrm{c}-\mathrm{d}-\mathrm{e})$ | \$4,692 | \$2,649 | $(\$ 1,096)$ |
| g. Expected UAAL Contributions to 2013 | N/A | N/A | \$0 |
| h. Remaining UAAL ( $\mathrm{f}-\mathrm{g}$ ) | \$4,692 | \$2,649 | (\$1,096) |
| i. Amortization Date | N/A | N/A | 6/30/2024 |
| Present Value of Projected Salaries* | \$93,173 | \$39,184 | \$12,646 |
| k. Contribution Rate Before Adjustments (h/j) | 5.04\% | 6.76\% | (8.67\%) |
| I. Minimum Contribution Rate | 3.50\% | 5.75\% | N/A |
| m . Preliminary Contribution Rate** | 5.04\% | 6.76\% | (8.67\%) |
| n. Plan 1 Benefit Improvements After 2009 | 0.14\% | 0.15\% | N/A |
| o. Change In Plan Provisions (Laws of 2014) | 0.00\% | 0.00\% | 0.00\% |
| p. Contribution Rate to Amortize the UAAL ( $m+n+0$ )** | 5.18\% | 6.91\% | (8.67\%) |
| Plan 1 UAAL Contribution Rates Adopted by PFC |  |  |  |
| Contribution Rate Adopted for 2015-17 | 4.77\% | 6.23\% | 0.00\% |

Note: Totals may not agree due to rounding.
*Measured under the plan's amortization method.
**No LEOFF 1 UAAL contributions are required when the plan is fully funded under current methods and assumptions.

## Actuarial Liabilities

| Present Value of Fully Projected Benefits |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in Millions) | PERS |  |  | TRS |  |  | SERS | PSERS | LEOFF |  |  | WSPRS |
|  | Plan 1 | Plans 2/3 | Total | Plan 1 | Plans 2/3 | Total | Plans 2/3 | Plan 2 | Plan 1 | Plan 2 | Total |  |
| Active Members |  |  |  |  |  |  |  |  |  |  |  |  |
| Retirement | \$1,600 | \$23,380 | \$24,980 | \$962 | \$9,259 | \$10,222 | \$2,969 | \$514 | \$163 | \$7,637 | \$7,800 | \$455 |
| Termination | 2 | 813 | 815 | 0 | 305 | 305 | 174 | 35 | 0 | 144 | 144 | 3 |
| Death | 12 | 236 | 247 | 5 | 78 | 84 | 32 | 4 | 2 | 104 | 106 | 5 |
| Disability | 2 | 138 | 139 | 0 | 9 | 9 | 13 | 3 | 1 | 351 | 351 | 2 |
| Return of Contributions on Termination | 1 | 241 | 242 | 0 | 19 | 19 | 22 | 18 | 0 | 87 | 87 | 2 |
| Return of Contributions on Death | 25 | 208 | 233 | 11 | 19 | 30 | 18 | 7 | 0 | 129 | 129 | 2 |
| Total Active | \$1,641 | \$25,015 | \$26,656 | \$979 | \$9,689 | \$10,669 | \$3,228 | \$581 | \$166 | \$8,451 | \$8,617 | \$468 |
| Inactive Members |  |  |  |  |  |  |  |  |  |  |  |  |
| Terminated | \$173 | \$2,290 | \$2,463 | \$53 | \$762 | \$815 | \$428 | \$12 | \$1 | \$154 | \$155 | \$11 |
| Service Retired | 10,434 | 5,746 | 16,180 | 8,028 | 1,523 | 9,551 | 804 | 2 | 1,874 | 1,517 | 3,391 | 600 |
| Disability Retired | 125 | 125 | 250 | 87 | 11 | 99 | 14 | 0 | 1,818 | 123 | 1,941 | 7 |
| Survivors | 639 | 228 | 866 | 343 | 39 | 383 | 21 | 0 | 561 | 69 | 630 | 46 |
| Total Inactive | \$11,371 | \$8,389 | \$19,760 | \$8,511 | \$2,336 | \$10,847 | \$1,267 | \$15 | \$4,255 | \$1,862 | \$6,117 | \$663 |
| Laws of 2014 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013 Total | \$13,012 | \$33,404 | \$46,416 | \$9,491 | \$12,025 | \$21,516 | \$4,495 | \$595 | \$4,420 | \$10,314 | \$14,734 | \$1,132 |
| 2012 Total | \$12,514 | \$28,796 | \$41,311 | \$9,111 | \$10,240 | \$19,351 | \$3,893 | \$488 | \$4,132 | \$9,203 | \$13,335 | \$1,019 |


| Present Value of Accrued (Earned) Benefits* |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in Millions) | PERS |  |  | TRS |  |  | SERS | PSERS | LEOFF |  |  | wSPRS |
|  | Plan 1 | Plans $2 / 3$ | Total | Plan 1 | Plans 2/3 | Total | Plans 2/3 | Plan 2 | Plan 1 | Plan 2 | Total |  |
| Active Members |  |  |  |  |  |  |  |  |  |  |  |  |
| Retirement | \$1,475 | \$14,438 | \$15,913 | \$921 | \$5,442 | \$6,363 | \$1,852 | \$139 | \$152 | \$4,484 | \$4,636 | \$286 |
| Termination | 2 | 483 | 485 | 0 | 167 | 168 | 103 | 14 | 0 | 87 | 87 | 2 |
| Death | 12 | 153 | 164 | 6 | 48 | 54 | 21 | 1 | 2 | 70 | 72 | 4 |
| Disability | 2 | 83 | 85 | 0 | 5 | 5 | 7 | 1 | 1 | 226 | 227 | 1 |
| Return of Contributions on Termination | 1 | 126 | 127 | 0 | 8 | 8 | 11 | 8 | 0 | 52 | 52 | 1 |
| Return of Contributions on Death | 22 | 126 | 148 | 10 | 10 | 20 | 11 | 2 | 0 | 78 | 78 | 1 |
| Total Active | \$1,513 | \$15,409 | \$16,922 | \$937 | \$5,681 | \$6,618 | \$2,006 | \$166 | \$155 | \$4,997 | \$5,152 | \$296 |
| Inactive Members |  |  |  |  |  |  |  |  |  |  |  |  |
| Terminated | \$173 | \$2,290 | \$2,463 | \$53 | \$762 | \$815 | \$428 | \$12 | \$1 | \$154 | \$155 | \$11 |
| Service Retired | 10,434 | 5,746 | 16,180 | 8,028 | 1,523 | 9,551 | 804 | 2 | 1,874 | 1,517 | 3,391 | 600 |
| Disability Retired | 125 | 125 | 250 | 87 | 11 | 99 | 14 | 0 | 1,818 | 123 | 1,941 | 7 |
| Survivors | 639 | 228 | 866 | 343 | 39 | 383 | 21 | 0 | 561 | 69 | 630 | 46 |
| Total Inactive | \$11,371 | \$8,389 | \$19,760 | \$8,511 | \$2,336 | \$10,847 | \$1,267 | \$15 | \$4,255 | \$1,862 | \$6,117 | \$663 |
| Laws of 2014 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013 Total | \$12,884 | \$23,798 | \$36,682 | \$9,449 | \$8,016 | \$17,465 | \$3,273 | \$180 | \$4,410 | \$6,859 | \$11,269 | \$959 |
| 2012 Total | \$12,368 | \$20,347 | \$32,714 | \$9,058 | \$6,799 | \$15,857 | \$2,820 | \$135 | \$4,121 | \$6,071 | \$10,193 | \$859 |

Note: Totals may not agree due to rounding.
*Calculated using the Projected Unit Credit (PUC) cost method. This method was not used to determine contribution requirements.

| Fully Projected Benefit Payments |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PERS - Plan 1 |  |  |  |  |  |  |  |  |  |  |  |
| (Dollars in Millions) | Future <br> Value | Present Value | Year | Future Value | Present Value | Year | Future Value | Present Value | Year | Future Value | Present Value |
| Year |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | \$1,220 | \$1,175 | 2038 | \$599 | \$88 | 2063 | \$14 | \$0 | 2088 | \$1 | \$0 |
| 2014 | 1,226 | 1,095 | 2039 | 558 | 76 | 2064 | 12 | 0 | 2089 | 1 | 0 |
| 2015 | 1,230 | 1,020 | 2040 | 515 | 65 | 2065 | 11 | 0 | 2090 | 0 | 0 |
| 2016 | 1,230 | 945 | 2041 | 473 | 56 | 2066 | 10 | 0 | 2091 | 0 | 0 |
| 2017 | 1,224 | 873 | 2042 | 431 | 47 | 2067 | 9 | 0 | 2092 | 0 | 0 |
| 2018 | 1,214 | 803 | 2043 | 390 | 39 | 2068 | 8 | 0 | 2093 | 0 | 0 |
| 2019 | 1,199 | 736 | 2044 | 350 | 33 | 2069 | 7 | 0 | 2094 | 0 | 0 |
| 2020 | 1,181 | 673 | 2045 | 311 | 27 | 2070 | 6 | 0 | 2095 | 0 | 0 |
| 2021 | 1,161 | 613 | 2046 | 274 | 22 | 2071 | 6 | 0 | 2096 | 0 | 0 |
| 2022 | 1,137 | 557 | 2047 | 240 | 18 | 2072 | 5 | 0 | 2097 | 0 | 0 |
| 2023 | 1,113 | 506 | 2048 | 207 | 14 | 2073 | 5 | 0 | 2098 | 0 | 0 |
| 2024 | 1,086 | 458 | 2049 | 178 | 11 | 2074 | 4 | 0 | 2099 | 0 | 0 |
| 2025 | 1,058 | 414 | 2050 | 152 | 9 | 2075 | 4 | 0 | 2100 | 0 | 0 |
| 2026 | 1,029 | 373 | 2051 | 128 | 7 | 2076 | 3 | 0 | 2101 | 0 | 0 |
| 2027 | 999 | 336 | 2052 | 107 | 6 | 2077 | 3 | 0 | 2102 | 0 | 0 |
| 2028 | 968 | 302 | 2053 | 90 | 4 | 2078 | 3 | 0 | 2103 | 0 | 0 |
| 2029 | 936 | 271 | 2054 | 74 | 3 | 2079 | 2 | 0 | 2104 | 0 | 0 |
| 2030 | 902 | 242 | 2055 | 61 | 3 | 2080 | 2 | 0 | 2105 | 0 | 0 |
| 2031 | 868 | 216 | 2056 | 51 | 2 | 2081 | 2 | 0 | 2106 | 0 | 0 |
| 2032 | 833 | 193 | 2057 | 42 | 1 | 2082 | 2 | 0 | 2107 | 0 | 0 |
| 2033 | 797 | 171 | 2058 | 34 | 1 | 2083 | 1 | 0 | 2108 | 0 | 0 |
| 2034 | 759 | 151 | 2059 | 28 | 1 | 2084 | 1 | 0 | 2109 | 0 | 0 |
| 2035 | 721 | 133 | 2060 | 24 | 1 | 2085 | 1 | 0 | 2110 | 0 | 0 |
| 2036 | 681 | 117 | 2061 | 20 | 1 | 2086 | 1 | 0 | 2111 | 0 | 0 |
| 2037 | \$641 | \$102 | 2062 | \$17 | \$0 | 2087 | \$1 | \$0 | 2112 | \$0 | \$0 |
|  |  |  |  |  |  |  |  |  | Total | \$30,891 | \$13,012 |

Fully Projected Benefit Payments

| PERS - Plans 2/3 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in Millions) <br> Year | Future Value | Present Value | Year | Future <br> Value | Present Value | Year | Future Value | Present Value | Year | Future Value | Present Value |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | \$665 | \$641 | 2038 | \$5,182 | \$763 | 2063 | \$3,839 | \$86 | 2088 | \$210 | \$1 |
| 2014 | 750 | 670 | 2039 | 5,320 | 727 | 2064 | 3,656 | 76 | 2089 | 165 | 1 |
| 2015 | 890 | 738 | 2040 | 5,445 | 690 | 2065 | 3,472 | 67 | 2090 | 128 | 0 |
| 2016 | 1,040 | 800 | 2041 | 5,556 | 653 | 2066 | 3,286 | 59 | 2091 | 98 | 0 |
| 2017 | 1,199 | 855 | 2042 | 5,656 | 617 | 2067 | 3,100 | 52 | 2092 | 74 | 0 |
| 2018 | 1,370 | 906 | 2043 | 5,739 | 581 | 2068 | 2,914 | 45 | 2093 | 55 | 0 |
| 2019 | 1,552 | 953 | 2044 | 5,804 | 545 | 2069 | 2,729 | 39 | 2094 | 40 | 0 |
| 2020 | 1,743 | 993 | 2045 | 5,845 | 509 | 2070 | 2,545 | 34 | 2095 | 29 | 0 |
| 2021 | 1,941 | 1,025 | 2046 | 5,865 | 474 | 2071 | 2,363 | 29 | 2096 | 20 | 0 |
| 2022 | 2,143 | 1,050 | 2047 | 5,862 | 439 | 2072 | 2,183 | 25 | 2097 | 14 | 0 |
| 2023 | 2,346 | 1,066 | 2048 | 5,837 | 406 | 2073 | 2,006 | 21 | 2098 | 10 | 0 |
| 2024 | 2,549 | 1,074 | 2049 | 5,793 | 373 | 2074 | 1,833 | 18 | 2099 | 7 | 0 |
| 2025 | 2,752 | 1,076 | 2050 | 5,729 | 343 | 2075 | 1,663 | 15 | 2100 | 4 | 0 |
| 2026 | 2,956 | 1,072 | 2051 | 5,646 | 313 | 2076 | 1,500 | 13 | 2101 | 3 | 0 |
| 2027 | 3,160 | 1,064 | 2052 | 5,547 | 286 | 2077 | 1,342 | 11 | 2102 | 2 | 0 |
| 2028 | 3,363 | 1,050 | 2053 | 5,434 | 259 | 2078 | 1,192 | 9 | 2103 | 1 | 0 |
| 2029 | 3,563 | 1,032 | 2054 | 5,309 | 235 | 2079 | 1,049 | 7 | 2104 | 1 | 0 |
| 2030 | 3,761 | 1,010 | 2055 | 5,172 | 212 | 2080 | 916 | 6 | 2105 | 0 | 0 |
| 2031 | 3,958 | 986 | 2056 | 5,025 | 192 | 2081 | 791 | 5 | 2106 | 0 | 0 |
| 2032 | 4,154 | 960 | 2057 | 4,871 | 172 | 2082 | 677 | 4 | 2107 | 0 | 0 |
| 2033 | 4,345 | 932 | 2058 | 4,710 | 154 | 2083 | 573 | 3 | 2108 | 0 | 0 |
| 2034 | 4,531 | 901 | 2059 | 4,544 | 138 | 2084 | 480 | 2 | 2109 | 0 | 0 |
| 2035 | 4,709 | 869 | 2060 | 4,373 | 123 | 2085 | 397 | 2 | 2110 | 0 | 0 |
| 2036 | 4,876 | 835 | 2061 | 4,198 | 110 | 2086 | 325 | 1 | 2111 | 0 | 0 |
| 2037 | \$5,034 | \$799 | 2062 | \$4,020 | \$98 | 2087 | \$263 | \$1 | 2112 | \$0 | \$0 |
|  |  |  |  |  |  |  |  |  | Total | \$247,788 | \$33,404 |

Fully Projected Benefit Payments

| TRS - Plan 1 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in Millions) Year | Future Value | Present Value | Year | Future Value | PresentValue | Year | Future Value | Present Value | Year | Future Value | Present Value |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | \$904 | \$870 | 2038 | \$444 | \$65 | 2063 | \$10 | \$0 | 2088 | \$1 | \$0 |
| 2014 | 911 | 814 | 2039 | 416 | 57 | 2064 | 9 | 0 | 2089 | 1 | 0 |
| 2015 | 913 | 757 | 2040 | 386 | 49 | 2065 | 8 | 0 | 2090 | 1 | 0 |
| 2016 | 910 | 699 | 2041 | 355 | 42 | 2066 | 7 | 0 | 2091 | 1 | 0 |
| 2017 | 902 | 643 | 2042 | 324 | 35 | 2067 | 7 | 0 | 2092 | 1 | 0 |
| 2018 | 891 | 589 | 2043 | 293 | 30 | 2068 | 6 | 0 | 2093 | 1 | 0 |
| 2019 | 876 | 538 | 2044 | 262 | 25 | 2069 | 6 | 0 | 2094 | 0 | 0 |
| 2020 | 859 | 489 | 2045 | 232 | 20 | 2070 | 6 | 0 | 2095 | 0 | 0 |
| 2021 | 840 | 444 | 2046 | 203 | 16 | 2071 | 5 | 0 | 2096 | 0 | 0 |
| 2022 | 820 | 402 | 2047 | 176 | 13 | 2072 | 5 | 0 | 2097 | 0 | 0 |
| 2023 | 799 | 363 | 2048 | 150 | 10 | 2073 | 5 | 0 | 2098 | 0 | 0 |
| 2024 | 777 | 327 | 2049 | 128 | 8 | 2074 | 5 | 0 | 2099 | 0 | 0 |
| 2025 | 754 | 295 | 2050 | 107 | 6 | 2075 | 4 | 0 | 2100 | 0 | 0 |
| 2026 | 731 | 265 | 2051 | 89 | 5 | 2076 | 4 | 0 | 2101 | 0 | 0 |
| 2027 | 708 | 238 | 2052 | 73 | 4 | 2077 | 4 | 0 | 2102 | 0 | 0 |
| 2028 | 685 | 214 | 2053 | 60 | 3 | 2078 | 3 | 0 | 2103 | 0 | 0 |
| 2029 | 663 | 192 | 2054 | 49 | 2 | 2079 | 3 | 0 | 2104 | 0 | 0 |
| 2030 | 640 | 172 | 2055 | 40 | 2 | 2080 | 3 | 0 | 2105 | 0 | 0 |
| 2031 | 618 | 154 | 2056 | 32 | 1 | 2081 | 3 | 0 | 2106 | 0 | 0 |
| 2032 | 595 | 138 | 2057 | 26 | 1 | 2082 | 2 | 0 | 2107 | 0 | 0 |
| 2033 | 572 | 123 | 2058 | 22 | 1 | 2083 | 2 | 0 | 2108 | 0 | 0 |
| 2034 | 548 | 109 | 2059 | 18 | 1 | 2084 | 2 | 0 | 2109 | 0 | 0 |
| 2035 | 524 | 97 | 2060 | 15 | 0 | 2085 | 2 | 0 | 2110 | 0 | 0 |
| 2036 | 499 | 85 | 2061 | 13 | 0 | 2086 | 2 | 0 | 2111 | 0 | 0 |
| 2037 | \$472 | \$75 | 2062 | \$11 | \$0 | 2087 | \$1 | \$0 | 2112 | \$0 | \$0 |
|  |  |  |  |  |  |  |  |  | Total | \$22,455 | \$9,491 |


| Fully Projected Benefit Payments |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRS - Plans 2/3 |  |  |  |  |  |  |  |  |  |  |  |
| (Dollars in Millions) | Future Value | Present Value | Year | Future Value | Present Value | Year | Future Value | Present Value | Year | Future Value | Present Value |
| Year |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | \$168 | \$162 | 2038 | \$1,978 | \$291 | 2063 | \$2,231 | \$50 | 2088 | \$164 | \$1 |
| 2014 | 201 | 179 | 2039 | 2,071 | 283 | 2064 | 2,159 | 45 | 2089 | 129 | 0 |
| 2015 | 250 | 207 | 2040 | 2,162 | 274 | 2065 | 2,084 | 40 | 2090 | 100 | 0 |
| 2016 | 302 | 232 | 2041 | 2,253 | 265 | 2066 | 2,004 | 36 | 2091 | 76 | 0 |
| 2017 | 355 | 253 | 2042 | 2,345 | 256 | 2067 | 1,922 | 32 | 2092 | 56 | 0 |
| 2018 | 410 | 271 | 2043 | 2,432 | 246 | 2068 | 1,836 | 28 | 2093 | 41 | 0 |
| 2019 | 468 | 287 | 2044 | 2,507 | 235 | 2069 | 1,747 | 25 | 2094 | 30 | 0 |
| 2020 | 527 | 300 | 2045 | 2,571 | 224 | 2070 | 1,655 | 22 | 2095 | 21 | 0 |
| 2021 | 589 | 311 | 2046 | 2,624 | 212 | 2071 | 1,562 | 19 | 2096 | 15 | 0 |
| 2022 | 653 | 320 | 2047 | 2,667 | 200 | 2072 | 1,466 | 17 | 2097 | 10 | 0 |
| 2023 | 719 | 327 | 2048 | 2,698 | 188 | 2073 | 1,369 | 15 | 2098 | 7 | 0 |
| 2024 | 787 | 332 | 2049 | 2,720 | 175 | 2074 | 1,271 | 13 | 2099 | 4 | 0 |
| 2025 | 858 | 335 | 2050 | 2,730 | 163 | 2075 | 1,172 | 11 | 2100 | 3 | 0 |
| 2026 | 930 | 337 | 2051 | 2,731 | 152 | 2076 | 1,073 | 9 | 2101 | 2 | 0 |
| 2027 | 1,005 | 338 | 2052 | 2,723 | 140 | 2077 | 975 | 8 | 2102 | 1 | 0 |
| 2028 | 1,083 | 338 | 2053 | 2,706 | 129 | 2078 | 879 | 6 | 2103 | 1 | 0 |
| 2029 | 1,163 | 337 | 2054 | 2,681 | 119 | 2079 | 784 | 5 | 2104 | 0 | 0 |
| 2030 | 1,246 | 335 | 2055 | 2,650 | 109 | 2080 | 692 | 4 | 2105 | 0 | 0 |
| 2031 | 1,333 | 332 | 2056 | 2,613 | 100 | 2081 | 605 | 4 | 2106 | 0 | 0 |
| 2032 | 1,422 | 329 | 2057 | 2,572 | 91 | 2082 | 522 | 3 | 2107 | 0 | 0 |
| 2033 | 1,513 | 325 | 2058 | 2,526 | 83 | 2083 | 445 | 2 | 2108 | 0 | 0 |
| 2034 | 1,606 | 319 | 2059 | 2,475 | 75 | 2084 | 375 | 2 | 2109 | 0 | 0 |
| 2035 | 1,700 | 314 | 2060 | 2,421 | 68 | 2085 | 312 | 1 | 2110 | 0 | 0 |
| 2036 | 1,793 | 307 | 2061 | 2,362 | 62 | 2086 | 256 | 1 | 2111 | 0 | 0 |
| 2037 | \$1,886 | \$299 | 2062 | \$2,298 | \$56 | 2087 | \$206 | \$1 | 2112 | \$0 | \$0 |
|  |  |  |  |  |  |  |  |  | Total | \$115,746 | \$12,025 |


| Fully Projected Benefit Payments |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SERS - Plans $2 / 3$ |  |  |  |  |  |  |  |  |  |  |  |
| (Dollars in Millions) | Future | Present |  | Future | Present |  | Future | Present |  | Future | Present |
| Year | Value | Value | Year | Value | Value | Year | Value | Value | Year | Value | Value |
| 2013 | \$86 | \$83 | 2038 | \$680 | \$100 | 2063 | \$368 | \$8 | 2088 | \$22 | \$0 |
| 2014 | 104 | 92 | 2039 | 689 | 94 | 2064 | 346 | 7 | 2089 | 17 | 0 |
| 2015 | 124 | 103 | 2040 | 696 | 88 | 2065 | 325 | 6 | 2090 | 14 | 0 |
| 2016 | 146 | 112 | 2041 | 701 | 82 | 2066 | 304 | 5 | 2091 | 10 | 0 |
| 2017 | 169 | 121 | 2042 | 705 | 77 | 2067 | 284 | 5 | 2092 | 8 | 0 |
| 2018 | 195 | 129 | 2043 | 706 | 71 | 2068 | 265 | 4 | 2093 | 6 | 0 |
| 2019 | 222 | 136 | 2044 | 705 | 66 | 2069 | 246 | 4 | 2094 | 4 | 0 |
| 2020 | 251 | 143 | 2045 | 702 | 61 | 2070 | 229 | 3 | 2095 | 3 | 0 |
| 2021 | 281 | 148 | 2046 | 696 | 56 | 2071 | 211 | 3 | 2096 | 2 | 0 |
| 2022 | 312 | 153 | 2047 | 688 | 52 | 2072 | 195 | 2 | 2097 | 2 | 0 |
| 2023 | 342 | 156 | 2048 | 678 | 47 | 2073 | 179 | 2 | 2098 | 1 | 0 |
| 2024 | 373 | 157 | 2049 | 666 | 43 | 2074 | 164 | 2 | 2099 | 1 | 0 |
| 2025 | 403 | 158 | 2050 | 652 | 39 | 2075 | 149 | 1 | 2100 | 0 | 0 |
| 2026 | 432 | 157 | 2051 | 635 | 35 | 2076 | 135 | 1 | 2101 | 0 | 0 |
| 2027 | 460 | 155 | 2052 | 617 | 32 | 2077 | 122 | 1 | 2102 | 0 | 0 |
| 2028 | 488 | 152 | 2053 | 598 | 29 | 2078 | 109 | 1 | 2103 | 0 | 0 |
| 2029 | 514 | 149 | 2054 | 577 | 26 | 2079 | 97 | 1 | 2104 | 0 | 0 |
| 2030 | 539 | 145 | 2055 | 555 | 23 | 2080 | 86 | 1 | 2105 | 0 | 0 |
| 2031 | 563 | 140 | 2056 | 532 | 20 | 2081 | 75 | 0 | 2106 | 0 | 0 |
| 2032 | 585 | 135 | 2057 | 508 | 18 | 2082 | 65 | 0 | 2107 | 0 | 0 |
| 2033 | 606 | 130 | 2058 | 484 | 16 | 2083 | 56 | 0 | 2108 | 0 | 0 |
| 2034 | 625 | 124 | 2059 | 461 | 14 | 2084 | 47 | 0 | 2109 | 0 | 0 |
| 2035 | 642 | 118 | 2060 | 437 | 12 | 2085 | 40 | 0 | 2110 | 0 | 0 |
| 2036 | 657 | 112 | 2061 | 413 | 11 | 2086 | 33 | 0 | 2111 | 0 | 0 |
| 2037 | \$670 | \$106 | 2062 | \$390 | \$9 | 2087 | \$27 | \$0 | 2112 | \$0 | \$0 |
|  |  |  |  |  |  |  |  |  | Total | \$29,207 | \$4,495 |


| Fully Projected Benefit Payments |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PSERS - Plan 2 |  |  |  |  |  |  |  |  |  |  |  |
| (Dollars in Millions) Year | Future Value | Present Value | Year | Future Value | Present Value | Year | Future Value | Present Value | Year | Future Value | Present Value |
| 2013 | \$3 | \$3 | 2038 | \$114 | \$17 | 2063 | \$221 | \$5 | 2088 | \$14 | \$0 |
| 2014 | 3 | 3 | 2039 | 123 | 17 | 2064 | 216 | 5 | 2089 | 11 | 0 |
| 2015 | 3 | 3 | 2040 | 133 | 17 | 2065 | 211 | 4 | 2090 | 8 | 0 |
| 2016 | 4 | 3 | 2041 | 144 | 17 | 2066 | 205 | 4 | 2091 | 6 | 0 |
| 2017 | 5 | 3 | 2042 | 155 | 17 | 2067 | 198 | 3 | 2092 | 4 | 0 |
| 2018 | 6 | 4 | 2043 | 166 | 17 | 2068 | 191 | 3 | 2093 | 3 | 0 |
| 2019 | 7 | 5 | 2044 | 177 | 17 | 2069 | 183 | 3 | 2094 | 2 | 0 |
| 2020 | 9 | 5 | 2045 | 188 | 16 | 2070 | 175 | 2 | 2095 | 1 | 0 |
| 2021 | 11 | 6 | 2046 | 199 | 16 | 2071 | 166 | 2 | 2096 | 1 | 0 |
| 2022 | 14 | 7 | 2047 | 208 | 16 | 2072 | 157 | 2 | 2097 | 1 | 0 |
| 2023 | 17 | 8 | 2048 | 217 | 15 | 2073 | 147 | 2 | 2098 | 0 | 0 |
| 2024 | 20 | 9 | 2049 | 224 | 14 | 2074 | 137 | 1 | 2099 | 0 | 0 |
| 2025 | 24 | 9 | 2050 | 229 | 14 | 2075 | 127 | 1 | 2100 | 0 | 0 |
| 2026 | 28 | 10 | 2051 | 234 | 13 | 2076 | 116 | 1 | 2101 | 0 | 0 |
| 2027 | 33 | 11 | 2052 | 237 | 12 | 2077 | 105 | 1 | 2102 | 0 | 0 |
| 2028 | 38 | 12 | 2053 | 239 | 11 | 2078 | 94 | 1 | 2103 | 0 | 0 |
| 2029 | 44 | 13 | 2054 | 240 | 11 | 2079 | 83 | 1 | 2104 | 0 | 0 |
| 2030 | 51 | 14 | 2055 | 241 | 10 | 2080 | 73 | 0 | 2105 | 0 | 0 |
| 2031 | 58 | 14 | 2056 | 241 | 9 | 2081 | 62 | 0 | 2106 | 0 | 0 |
| 2032 | 65 | 15 | 2057 | 240 | 8 | 2082 | 53 | 0 | 2107 | 0 | 0 |
| 2033 | 72 | 15 | 2058 | 238 | 8 | 2083 | 44 | 0 | 2108 | 0 | 0 |
| 2034 | 80 | 16 | 2059 | 236 | 7 | 2084 | 36 | 0 | 2109 | 0 | 0 |
| 2035 | 88 | 16 | 2060 | 233 | 7 | 2085 | 29 | 0 | 2110 | 0 | 0 |
| 2036 | 96 | 16 | 2061 | 230 | 6 | 2086 | 23 | 0 | 2111 | 0 | 0 |
| 2037 | \$105 | \$17 | 2062 | \$226 | \$5 | 2087 | \$18 | \$0 | 2112 | \$0 | \$0 |
|  |  |  |  |  |  |  |  |  | Total | \$9,117 | \$595 |


| Fully Projected Benefit Payments |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LEOFF - Plan 1 |  |  |  |  |  |  |  |  |  |  |  |
| (Dollars in Millions) | Future | Present |  | Future | Present |  | Future | Present |  | Future | Present |
| Year | Value | Value | Year | Value | Value | Year | Value | Value | Year | Value | Value |
| 2013 | \$357 | \$344 | 2038 | \$263 | \$39 | 2063 | \$6 | \$0 | 2088 | \$0 | \$0 |
| 2014 | 365 | 326 | 2039 | 246 | 34 | 2064 | 5 | 0 | 2089 | 0 | 0 |
| 2015 | 371 | 307 | 2040 | 229 | 29 | 2065 | 4 | 0 | 2090 | 0 | 0 |
| 2016 | 376 | 289 | 2041 | 211 | 25 | 2066 | 3 | 0 | 2091 | 0 | 0 |
| 2017 | 381 | 272 | 2042 | 194 | 21 | 2067 | 2 | 0 | 2092 | 0 | 0 |
| 2018 | 384 | 254 | 2043 | 176 | 18 | 2068 | 2 | 0 | 2093 | 0 | 0 |
| 2019 | 387 | 238 | 2044 | 159 | 15 | 2069 | 2 | 0 | 2094 | 0 | 0 |
| 2020 | 389 | 221 | 2045 | 142 | 12 | 2070 | 1 | 0 | 2095 | 0 | 0 |
| 2021 | 390 | 206 | 2046 | 126 | 10 | 2071 | 1 | 0 | 2096 | 0 | 0 |
| 2022 | 390 | 191 | 2047 | 111 | 8 | 2072 | 1 | 0 | 2097 | 0 | 0 |
| 2023 | 389 | 177 | 2048 | 96 | 7 | 2073 | 1 | 0 | 2098 | 0 | 0 |
| 2024 | 388 | 164 | 2049 | 83 | 5 | 2074 | 1 | 0 | 2099 | 0 | 0 |
| 2025 | 386 | 151 | 2050 | 72 | 4 | 2075 | 0 | 0 | 2100 | 0 | 0 |
| 2026 | 382 | 139 | 2051 | 61 | 3 | 2076 | 0 | 0 | 2101 | 0 | 0 |
| 2027 | 378 | 127 | 2052 | 51 | 3 | 2077 | 0 | 0 | 2102 | 0 | 0 |
| 2028 | 373 | 116 | 2053 | 43 | 2 | 2078 | 0 | 0 | 2103 | 0 | 0 |
| 2029 | 367 | 106 | 2054 | 36 | 2 | 2079 | 0 | 0 | 2104 | 0 | 0 |
| 2030 | 360 | 97 | 2055 | 30 | 1 | 2080 | 0 | 0 | 2105 | 0 | 0 |
| 2031 | 351 | 88 | 2056 | 25 | 1 | 2081 | 0 | 0 | 2106 | 0 | 0 |
| 2032 | 342 | 79 | 2057 | 20 | 1 | 2082 | 0 | 0 | 2107 | 0 | 0 |
| 2033 | 331 | 71 | 2058 | 16 | 1 | 2083 | 0 | 0 | 2108 | 0 | 0 |
| 2034 | 320 | 64 | 2059 | 13 | 0 | 2084 | 0 | 0 | 2109 | 0 | 0 |
| 2035 | 307 | 57 | 2060 | 11 | 0 | 2085 | 0 | 0 | 2110 | 0 | 0 |
| 2036 | 293 | 50 | 2061 | 9 | 0 | 2086 | 0 | 0 | 2111 | 0 | 0 |
| 2037 | \$278 | \$44 | 2062 | \$7 | \$0 | 2087 | \$0 | \$0 | 2112 | \$0 | \$0 |
|  |  |  |  |  |  |  |  |  | Total | \$11,500 | \$4,420 |


| Fully Projected Benefit Payments |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LEOFF - Plan 2 |  |  |  |  |  |  |  |  |  |  |  |
| (Dollars in Millions) | Future Value | Present Value | Year | Future Value | Present Value | Year | Future Value | Present Value | Year | Future Value | Present Value |
| Year |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | \$140 | \$135 | 2038 | \$1,678 | \$265 | 2063 | \$1,554 | \$40 | 2088 | \$45 | \$0 |
| 2014 | 168 | 151 | 2039 | 1,747 | 257 | 2064 | 1,481 | 36 | 2089 | 33 | 0 |
| 2015 | 201 | 168 | 2040 | 1,812 | 248 | 2065 | 1,407 | 32 | 2090 | 23 | 0 |
| 2016 | 236 | 184 | 2041 | 1,871 | 238 | 2066 | 1,330 | 28 | 2091 | 16 | 0 |
| 2017 | 275 | 199 | 2042 | 1,925 | 228 | 2067 | 1,252 | 24 | 2092 | 11 | 0 |
| 2018 | 317 | 213 | 2043 | 1,973 | 217 | 2068 | 1,173 | 21 | 2093 | 8 | 0 |
| 2019 | 362 | 226 | 2044 | 2,014 | 206 | 2069 | 1,093 | 18 | 2094 | 5 | 0 |
| 2020 | 410 | 239 | 2045 | 2,049 | 195 | 2070 | 1,014 | 16 | 2095 | 3 | 0 |
| 2021 | 462 | 250 | 2046 | 2,076 | 184 | 2071 | 934 | 14 | 2096 | 2 | 0 |
| 2022 | 518 | 261 | 2047 | 2,095 | 173 | 2072 | 856 | 12 | 2097 | 1 | 0 |
| 2023 | 577 | 270 | 2048 | 2,108 | 162 | 2073 | 778 | 10 | 2098 | 1 | 0 |
| 2024 | 639 | 278 | 2049 | 2,113 | 151 | 2074 | 702 | 8 | 2099 | 1 | 0 |
| 2025 | 703 | 285 | 2050 | 2,111 | 140 | 2075 | 628 | 7 | 2100 | 0 | 0 |
| 2026 | 771 | 290 | 2051 | 2,101 | 130 | 2076 | 556 | 6 | 2101 | 0 | 0 |
| 2027 | 841 | 295 | 2052 | 2,085 | 120 | 2077 | 488 | 5 | 2102 | 0 | 0 |
| 2028 | 913 | 298 | 2053 | 2,063 | 110 | 2078 | 423 | 4 | 2103 | 0 | 0 |
| 2029 | 987 | 299 | 2054 | 2,035 | 101 | 2079 | 362 | 3 | 2104 | 0 | 0 |
| 2030 | 1,063 | 300 | 2055 | 2,000 | 93 | 2080 | 306 | 2 | 2105 | 0 | 0 |
| 2031 | 1,140 | 299 | 2056 | 1,960 | 84 | 2081 | 255 | 2 | 2106 | 0 | 0 |
| 2032 | 1,218 | 297 | 2057 | 1,915 | 77 | 2082 | 209 | 1 | 2107 | 0 | 0 |
| 2033 | 1,297 | 295 | 2058 | 1,865 | 69 | 2083 | 169 | 1 | 2108 | 0 | 0 |
| 2034 | 1,376 | 291 | 2059 | 1,811 | 63 | 2084 | 134 | 1 | 2109 | 0 | 0 |
| 2035 | 1,454 | 286 | 2060 | 1,752 | 56 | 2085 | 105 | 1 | 2110 | 0 | 0 |
| 2036 | 1,531 | 280 | 2061 | 1,689 | 51 | 2086 | 80 | 0 | 2111 | 0 | 0 |
| 2037 | \$1,606 | \$273 | 2062 | \$1,623 | \$45 | 2087 | \$61 | \$0 | 2112 | \$0 | \$0 |
|  |  |  |  |  |  |  |  |  | Total | \$85,177 | \$10,314 |


| Fully Projected Benefit Payments |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WSPRS - Plans 1/2 |  |  |  |  |  |  |  |  |  |  |  |
| (Dollars in Millions) | Future | Present |  | Future | Present |  | Future | Present |  | Future | Present |
| Year | Value | Value | Year | Value | Value | Year | Value | Value | Year | Value | Value |
| 2013 | \$47 | \$45 | 2038 | \$140 | \$21 | 2063 | \$113 | \$3 | 2088 | \$4 | \$0 |
| 2014 | 49 | 44 | 2039 | 143 | 19 | 2064 | 108 | 2 | 2089 | 3 | 0 |
| 2015 | 53 | 44 | 2040 | 145 | 18 | 2065 | 103 | 2 | 2090 | 2 | 0 |
| 2016 | 56 | 43 | 2041 | 146 | 17 | 2066 | 97 | 2 | 2091 | 2 | 0 |
| 2017 | 60 | 43 | 2042 | 148 | 16 | 2067 | 92 | 2 | 2092 | 1 | 0 |
| 2018 | 63 | 42 | 2043 | 149 | 15 | 2068 | 86 | 1 | 2093 | 1 | 0 |
| 2019 | 67 | 41 | 2044 | 149 | 14 | 2069 | 80 | 1 | 2094 | 1 | 0 |
| 2020 | 70 | 40 | 2045 | 150 | 13 | 2070 | 74 | 1 | 2095 | 0 | 0 |
| 2021 | 74 | 39 | 2046 | 150 | 12 | 2071 | 68 | 1 | 2096 | 0 | 0 |
| 2022 | 78 | 38 | 2047 | 151 | 11 | 2072 | 62 | 1 | 2097 | 0 | 0 |
| 2023 | 82 | 37 | 2048 | 150 | 10 | 2073 | 57 | 1 | 2098 | 0 | 0 |
| 2024 | 86 | 36 | 2049 | 150 | 10 | 2074 | 51 | 1 | 2099 | 0 | 0 |
| 2025 | 90 | 35 | 2050 | 149 | 9 | 2075 | 46 | 0 | 2100 | 0 | 0 |
| 2026 | 95 | 34 | 2051 | 149 | 8 | 2076 | 41 | 0 | 2101 | 0 | 0 |
| 2027 | 99 | 33 | 2052 | 148 | 8 | 2077 | 36 | 0 | 2102 | 0 | 0 |
| 2028 | 103 | 32 | 2053 | 146 | 7 | 2078 | 32 | 0 | 2103 | 0 | 0 |
| 2029 | 107 | 31 | 2054 | 144 | 6 | 2079 | 28 | 0 | 2104 | 0 | 0 |
| 2030 | 111 | 30 | 2055 | 142 | 6 | 2080 | 24 | 0 | 2105 | 0 | 0 |
| 2031 | 115 | 29 | 2056 | 140 | 5 | 2081 | 20 | 0 | 2106 | 0 | 0 |
| 2032 | 119 | 27 | 2057 | 137 | 5 | 2082 | 17 | 0 | 2107 | 0 | 0 |
| 2033 | 123 | 26 | 2058 | 134 | 4 | 2083 | 14 | 0 | 2108 | 0 | 0 |
| 2034 | 126 | 25 | 2059 | 131 | 4 | 2084 | 11 | 0 | 2109 | 0 | 0 |
| 2035 | 130 | 24 | 2060 | 127 | 4 | 2085 | 9 | 0 | 2110 | 0 | 0 |
| 2036 | 134 | 23 | 2061 | 123 | 3 | 2086 | 7 | 0 | 2111 | 0 | 0 |
| 2037 | \$137 | \$22 | 2062 | \$118 | \$3 | 2087 | \$5 | \$0 | 2112 | \$0 | \$0 |
|  |  |  |  |  |  |  |  |  | Total | \$7,130 | \$1,132 |

## Plan Assets

Cash: Highly liquid, very safe investments that can be easily converted into cash, such as Treasury Bills and money-market funds.
Fixed Income: Securities representing debt obligations and usually having fixed payments and maturities. Different types of fixed income securities include government and corporate bonds, mortgage-backed securities, assetbacked securities, convertible issues, and may also include money-market instruments.

Innovation: Fund that provides the ability to invest in a broad range of assets that fall outside the traditional asset classes or management style of existing asset classes.
Public Equity: Shares of U.S. and non-U.S. corporations that trade on public exchanges or "over-the-counter." The ownership of a corporation is represented by shares that are claimed on the corporation's earnings and assets.

Private Equity: The infusion of equity capital into a private company (one that is not available on the public markets). Private equity investments include securities that are not listed on a public exchange and are not easily accessible to most individuals. These investments range from initial capital in startup enterprises to leveraged buyouts of mature corporations.
Real Estate: An externally-managed selection of partnership investments with the majority of the partnerships invested in high-quality real estate leased to third parties.

Tangibles: The tangible asset portfolio invests in sectors such as infrastructure, timber, agriculture, natural resources, commodities, or other sectors consistent with the goals of the asset class.

Retirement Commingled Trust Fund (CTF) Asset Allocation


| Change in Market Value of Assets |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in Millions) | PERS |  |  | TRS |  |  |
|  | Plan 1 | Plan 2/3* |  | Plan 1 | Plan $2 / 3^{*}$ |  |
|  | Fund 631 | Fund 641 | Total | Fund 632 | Fund 642 | Total |
| 2012 Market Value | \$7,374 | \$20,678 | \$28,052 | \$6,189 | \$7,087 | \$13,276 |
| Revenue |  |  |  |  |  |  |
| Contributions |  |  |  |  |  |  |
| Employee | 21 | 316 | 337 | 11 | 34 | 46 |
| Employer/State | 266 | 389 | 655 | 119 | 229 | 348 |
| Total Contributions | 288 | 705 | 992 | 130 | 263 | 393 |
| Investment Return | 863 | 2,556 | 3,419 | 721 | 878 | 1,598 |
| Restorations | 8 | 20 | 28 | 5 | 1 | 6 |
| Transfers In | 0 | 0 | 0 | 0 | 0 | 0 |
| Miscellaneous | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Revenue | \$1,159 | \$3,281 | \$4,440 | \$855 | \$1,142 | \$1,998 |
| Disbursements |  |  |  |  |  |  |
| Monthly Benefits** | \$1,181 | \$460 | \$1,641 | \$915 | \$117 | \$1,031 |
| Refunds | 4 | 36 | 40 | 2 | 3 | 5 |
| Total Benefits | 1,185 | 496 | 1,681 | 917 | 120 | 1,036 |
| Transfers Out | 0 | 4 | 4 | 0 | 0 | 0 |
| Expenses | 1 | 1 | 1 | 1 | 0 | 1 |
| Total Disbursements | \$1,186 | \$500 | \$1,686 | \$917 | \$120 | \$1,037 |
| Payables | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2013 Market Value | \$7,347 | \$23,459 | \$30,806 | \$6,127 | \$8,109 | \$14,237 |
| 2013 Actuarial Value | \$8,053 | \$24,335 | \$32,388 | \$6,717 | \$8,406 | \$15,123 |
| Ratio (AV/MV) | 110\% | 104\% | 105\% | 110\% | 104\% | 106\% |
| Note: Totals may not agree *Defined Benefit portion only <br> **TRS Plan 1 value includes | to rounding. <br> uity cashou |  |  |  |  |  |


| Change in Market Value of Assets (Continued) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in Millions) | SERS | PSERS |  | LEOFF |  | WSPRS | Total |
|  | Plan 2/3* | Plan 2 | Plan 1 | Plan 2 |  |  |  |
|  | Fund 633 | Fund 635 | Fund 819 | Fund 829 | Total | Fund 615 |  |
| 2012 Market Value | \$2,827 | \$174 | \$4,903 | \$6,640 | \$11,544 | \$879 | \$56,753 |
| Revenue |  |  |  |  |  |  |  |
| Contributions |  |  |  |  |  |  |  |
| Employee | 26 | 16 | 0 | 136 | 136 | 5 | 566 |
| Employer/State | 78 | 16 | 1 | 137 | 137 | 6 | 1,241 |
| Total Contributions | 104 | 31 | 1 | 272 | 273 | 12 | 1,807 |
| Investment Return | 349 | 22 | 586 | 825 | 1,412 | 107 | 6,907 |
| Restorations | 1 | 0 | 1 | 8 | 9 | 1 | 45 |
| Transfers In | 0 | 0 | 0 | 2 | 2 | 1 | 3 |
| Miscellaneous | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Revenue | \$454 | \$54 | \$588 | \$1,107 | \$1,696 | \$120 | \$8,762 |
| Disbursements |  |  |  |  |  |  |  |
| Monthly Benefits | 66 | 0 | 352 | 101 | 452 | 44 | 3,235 |
| Refunds | 3 | 2 | 0 | 9 | 9 | 0 | 58 |
| Total Benefits | 69 | 2 | 352 | 109 | 461 | 44 | 3,294 |
| Transfers Out | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Expenses | 0 | 0 | 0 | 1 | 1 | 0 | 4 |
| Total Disbursements | \$69 | \$2 | \$352 | \$110 | \$462 | \$44 | \$3,302 |
| Payables | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2013 Market Value | \$3,212 | \$226 | \$5,140 | \$7,637 | \$12,777 | \$956 | \$62,213 |
| 2013 Actuarial Value | \$3,335 | \$224 | \$5,516 | \$7,862 | \$13,379 | \$1,009 | \$65,458 |
| Ratio (AV/MV) | 104\% | 99\% | 107\% | 103\% | 105\% | 106\% | 105\% |

Note: Totals may not agree due to rounding.
*Defined Benefit portion only.

| Calculation of Actuarial Value of Assets |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in Millions) |  |  |  | PERS 1 | PERS 2/3* | TRS 1 | TRS 2/3* | SERS 2/3* |
| a. Market Value at $6 / 30 / 2013$ <br> b. Deferred Gains and (Losses) |  |  |  | \$7,347 | \$23,459 | \$6,127 | \$8,109 | \$3,212 |
| Plan Year Ending |  | Years Deferred |  |  |  |  |  |  |
| 6/30/2013 |  | 5 | 4 | \$252 | \$735 | \$210 | \$253 | \$101 |
| 6/30/2012 |  | 7 | 5 | (375) | (935) | (315) | (318) | (128) |
| 6/30/2011 |  | 8 | 5 | 597 | 1,350 | 501 | 458 | 184 |
| 6/30/2010 |  | 6 | 2 | 138 | 243 | 113 | 82 | 33 |
| 6/30/2009 |  | 8 | 3 | $(1,198)$ | $(2,057)$ | $(1,000)$ | (700) | (284) |
| 6/30/2008 |  | 8 | 2 | (253) | (410) | (212) | (141) | (58) |
| 9/30/2007 |  | 8 | 1 | 133 | 198 | 113 | 70 | 28 |
| Total Deferral |  |  |  | (\$706) | (\$876) | (\$590) | (\$297) | (\$123) |
|  | c. Market Value less Deferral (a-b) |  |  | \$8,053 | \$24,335 | \$6,717 | \$8,406 | \$3,335 |
| d. | 70\% of Market Value of Assets |  |  | \$5,143 | \$16,421 | \$4,289 | \$5,676 | \$2,248 |
| e. $130 \%$ of Market Value of Assets |  |  |  | \$9,551 | \$30,497 | \$7,966 | \$10,542 | \$4,175 |
| f. Actuarial Value of Assets** |  |  |  | \$8,053 | \$24,335 | \$6,717 | \$8,406 | \$3,335 |
| Note: Totals may not agree due to rounding. *Defined Benefit portion only. |  |  |  |  |  |  |  |  |
| ${ }^{* *}$ Actuarial Value of Assets can never be less than $70 \%$ or greater than $130 \%$ of the market value of assets. |  |  |  |  |  |  |  |  |



Note: Totals may not agree due to rounding.
*PSERS Plan $2=3$ years deferred, 0 years remaining; LEOFF Plan $2=5$ years deferred, 1 year remaining; all other plans = 6 years deferred, 2 years remaining.
${ }^{* *}$ Actuarial Value of Assets can never be less than $70 \%$ or greater than $130 \%$ of the market value of assets.

Investment Gains and (Losses) for Prior Year

| (Dollars in Millions) | PERS 1 | PERS 2/3* | TRS 1 | TRS 2/3* | SERS 2/3* |
| :---: | :---: | :---: | :---: | :---: | :---: |
| a. 2012 Market Value (at WSIB) | \$7,378 | \$20,630 | \$6,194 | \$7,055 | \$2,812 |
| b. Total Cash Flow | (893) | 221 | (785) | 144 | 37 |
| c. 2013 Market Value (at WSIB) | 7,349 | 23,411 | 6,131 | 8,078 | 3,199 |
| d. Actual Return (c-b-a) | \$864 | \$2,560 | \$721 | \$880 | \$350 |
| e. Weighted Asset Amount | \$6,922 | \$20,700 | \$5,789 | \$7,110 | \$2,824 |
| f. Expected Return ( $7.9 \% \times \mathrm{e}$ ) | 547 | 1,635 | 457 | 562 | 223 |
| g. Investment Gain/(Loss) for Prior Year (d-f) | 315 | 919 | 262 | 316 | 126 |
| h. Dollar-Weighted Rate of Return | 12.45\% | 12.34\% | 12.43\% | 12.35\% | 12.36\% |

Note: Totals may not agree due to rounding.
*Defined Benefit portion only.

Investment Gains and (Losses) for Prior Year

| Investment Gains and (Losses) for Prior Year (Continued) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in Millions) | PSERS 2 | LEOFF 1 | LEOFF 2 | WSPRS | Total |
| a. 2012 Market Value (at WSIB) | \$172 | \$4,903 | \$6,620 | \$878 | \$56,643 |
| b. Total Cash Flow | 29 | (351) | 172 | (30) | $(1,456)$ |
| c. 2013 Market Value (at WSIB) | 224 | 5,139 | 7,617 | 955 | 62,103 |
| d. Actual Return (c-b-a) | \$22 | \$587 | \$826 | \$107 | \$6,917 |
| e. Weighted Asset Amount | \$186 | \$4,721 | \$6,693 | \$861 | \$55,807 |
| f. Expected Return (7.9\% x e)* | 15 | 373 | 502 | 68 | 4,382 |
| g. Investment Gain/(Loss) for Prior Year (d-f) | 8 | 213 | 322 | 38 | 2,519 |
| h. Dollar-Weighted Rate of Return | 12.06\% | 12.41\% | 12.31\% | 12.37\% | 12.37\% |

Note: Totals may not agree due to rounding.
*The expected return for LEOFF 2 is ( $7.5 \%$ x e).

## Funded Status

We report a plan's funded status by comparing the plan's current assets to the present value of earned pensions of its members. Funded status can vary significantly from plan to plan, depending on the assumptions and methods used to determine the plan's assets and liabilities. For this valuation report, we present two funded status measures.

The first funded status measure compares the Actuarial Value of Assets (AVA) to the Projected Unit Credit (PUC) liabilities calculated using a long-term interest assumption. The second measure compares the Market Value of Assets (MVA) to the PUC liabilities calculated using a
short-term interest assumption. The next sections describe these measures in more detail and display the resulting funded statuses by plan. Please see the Glossary for an explanation of the PUC actuarial cost method.

## Funded Status on an Actuarial Value Basis

We report the funded status on an actuarial value basis as the ratio of the AVA to the PUC liability calculated using the 7.8 percent valuation interest rate assumption (7.5 percent for the Law Enforcement Officers' and Fire Fighters' [LEOFF] Retirement Plan 2). We assume the plan is ongoing and, therefore, we use the same long-term assumptions to develop the liabilities as we used for determining the contribution requirements of the plan. We don't expect the assumptions to match actual experience over short-term periods. However, we do expect these assumptions to reasonably approximate average annual experience over long-term periods. This measure of funded status is consistent with the state's current funding policy and financing plan for future retirement benefits.

We use an asset valuation method to determine the AVA. This asset valuation method smooths the inherent volatility in the MVA by deferring a portion of annual investment gains or losses for a certain number of years. Investment gains and losses occur when the annual return on
investments varies from the long-term assumed rate. To determine the 2013 investment gains or losses, we used an investment return assumption of 7.9 percent ( 7.5 percent for LEOFF 2). The AVA provides a more stable measure of the plan's assets on an ongoing basis.
We used the PUC actuarial cost method to determine the present value of earned pensions. The PUC liabilities are actuarial liabilities based on members' earned service credit as of the valuation date. They include future assumed salary increases and reflect future service credits for determining benefit eligibility. The PUC liabilities are discounted to the valuation date using the valuation interest rate to determine the present value (today's value). The valuation interest rate is consistent with the long-term expected return on invested contributions.

Comparing the PUC liabilities to the AVA provides an appropriate measure of a plan's funded status. Under current Governmental Accounting Standards Board (GASB) rules, the PUC method is one of several acceptable
measures of a plan's funded status. Use of another cost method could also be considered appropriate and could produce materially different results. A plan with a funded status under this measurement of at least 100 percent is generally considered to be on target with its financing plan. However, a plan more/less than 100 percent funded is not automatically considered over-funded/at-risk.

GASB Statements 67 and 68 become effective after June 15, 2015, replace the current GASB Statements, and require use of the Entry Age Normal Cost Method (EANC) for accounting purposes. We will begin reporting the EANC funded status with the next actuarial valuation report, as of June 30, 2014.

The table on the following page displays the funded status on an actuarial value basis for each plan.

| (Dollars in Millions) | Projected Unit Credit Funded Status on an Actuarial Value Basis* |  |  |  |  |  |  |  | WSPRS | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS |  | TRS |  | SERS <br> Plan 2/3 | PSERS <br> Plan 2 | LEOFF |  |  |  |
|  | Plan 1 | Plan 2/3 | Plan 1 | Plan 2/3 |  |  | Plan 1 | Plan 2 |  |  |
| PUC Liability | \$12,884 | \$23,798 | \$9,449 | \$8,016 | \$3,273 | \$180 | \$4,410 | \$6,859 | \$959 | \$69,828 |
| Valuation Assets | \$8,053 | \$24,335 | \$6,717 | \$8,406 | \$3,335 | \$224 | \$5,516 | \$7,862 | \$1,009 | \$65,458 |
| Unfunded Liability | \$4,831 | (\$537) | \$2,732 | (\$390) | (\$62) | (\$44) | $(\$ 1,107)$ | $(\$ 1,003)$ | (\$50) | \$4,370 |
| Funded Ratio |  |  |  |  |  |  |  |  |  |  |
| 2013 ** | 63\% | 102\% | 71\% | 105\% | 102\% | 124\% | 125\% | 115\% | 105\% | 94\% |
| 2012 | 69\% | 111\% | 79\% | 114\% | 110\% | 134\% | 135\% | 119\% | 114\% | 101\% |
| 2011 ** | 71\% | 112\% | 81\% | 113\% | 110\% | 132\% | 135\% | 119\% | 115\% | 101\% |
| 2010 *** | 74\% | 113\% | 84\% | 116\% | 113\% | 129\% | 127\% | 119\% | 118\% | 102\% |
| 2009 ** | 70\% | 116\% | 75\% | 118\% | 116\% | 128\% | 125\% | 128\% | 119\% | 99\% |
| 2008 ** | 71\% | 119\% | 77\% | 125\% | 121\% | 127\% | 128\% | 133\% | 121\% | 100\% |
| 2007 ** | 71\% | 120\% | 76\% | 130\% | 126\% | 120\% | 123\% | 129\% | 118\% | 99\% |
| 2006 ** | 74\% | 121\% | 80\% | 133\% | 125\% | 99\% | 117\% | 116\% | 114\% | 100\% |
| 2005 ** | 74\% | 127\% | 80\% | 134\% | 122\% | N/A | 114\% | 114\% | 113\% | 99\% |
| 2004 | 81\% | 134\% | 88\% | 153\% | 137\% | N/A | 109\% | 117\% | 118\% | 105\% |
| 2003 | 82\% | 142\% | 89\% | 155\% | 138\% | N/A | 112\% | 125\% | 123\% | 107\% |
| 2002 | 92\% | 158\% | 98\% | 182\% | 169\% | N/A | 119\% | 137\% | 135\% | 118\% |
| 2001 ** | 97\% | 179\% | 100\% | 197\% | 197\% | N/A | 129\% | 154\% | 147\% | 126\% |
| 2000 ** | 98\% | 190\% | 100\% | 196\% | 170\% | N/A | 136\% | 161\% | 152\% | 131\% |
| 1999 | 93\% | 189\% | 93\% | 188\% | N/A | N/A | 125\% | 154\% | 159\% | 124\% |
| 1998 | 86\% | 191\% | 86\% | 185\% | N/A | N/A | 117\% | 160\% | 147\% | 116\% |
| 1997 ** | 83\% | 187\% | 82\% | 181\% | N/A | N/A | 108\% | 155\% | 140\% | 109\% |
| 1996 | 73\% | 157\% | 70\% | 144\% | N/A | N/A | 89\% | 130\% | 128\% | 92\% |
| 1995 | 68\% | 150\% | 65\% | 136\% | N/A | N/A | 80\% | 126\% | 119\% | 85\% |
| 1994 ** | 67\% | 142\% | 65\% | 130\% | N/A | N/A | 68\% | 124\% | 110\% | 80\% |
| 1993 | 70\% | 142\% | 62\% | 126\% | N/A | N/A | 68\% | 127\% | 110\% | 79\% |
| 1992 | 67\% | 139\% | 59\% | 127\% | N/A | N/A | 65\% | 128\% | 108\% | 75\% |
| 1991 | 67\% | 149\% | 59\% | 131\% | N/A | N/A | 66\% | 154\% | 106\% | 75\% |
| 1990 | 66\% | 154\% | 60\% | 140\% | N/A | N/A | 65\% | 153\% | 105\% | 74\% |
| 1989 ** | 65\% | 162\% | 58\% | 144\% | N/A | N/A | 65\% | 158\% | 103\% | 73\% |
| 1988 | 66\% | 165\% | 59\% | 143\% | N/A | N/A | 66\% | 153\% | 102\% | 72\% |
| 1987 | 71\% | 175\% | 58\% | 135\% | N/A | N/A | 69\% | 157\% | 95\% | 74\% |
| 1986 | 63\% | 162\% | 50\% | 125\% | N/A | N/A | 57\% | 142\% | 87\% | 63\% |

[^2]**Assumptions changed.
***LEOFF 2 values for 2010 were updated after the 2010 AVR was published.

The present value of actuarial liabilities is sensitive to the interest rate assumption. The tables to the right show how the funded status changes when we use different interest rate assumptions. We calculated liabilities using varying interest rates to show this sensitivity.

Funded Status at a 1\% Lower Interest Rate Assumption*

| (Dollars in Millions) | PERS |  | TRS |  | SERS <br> Plan 2/3 | PSERS <br> Plan 2 | LEOFF |  | WSPRS | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Plan 1 | Plan 2/3 | Plan 1 | Plan 2/3 |  |  | Plan 1 | Plan 2 |  |  |
| PUC Liability | \$14,012 | \$27,818 | \$10,272 | \$9,523 | \$3,806 | \$226 | \$4,844 | \$8,212 | \$1,105 | \$79,818 |
| Valuation Assets | \$8,053 | \$24,335 | \$6,717 | \$8,406 | \$3,335 | \$224 | \$5,516 | \$7,862 | \$1,009 | \$65,458 |
| Unfunded Liability | \$5,959 | \$3,484 | \$3,555 | \$1,117 | \$471 | \$2 | (\$673) | \$349 | \$96 | \$14,360 |
| Funded Ratio |  |  |  |  |  |  |  |  |  |  |
| 2013 | 57\% | 87\% | 65\% | 88\% | 88\% | 99\% | 114\% | 96\% | 91\% | 82\% |
| 2012 | 64\% | 96\% | 73\% | 97\% | 95\% | 108\% | 124\% | 100\% | 100\% | 89\% |
| 2011 | 65\% | 96\% | 75\% | 96\% | 95\% | 106\% | 123\% | 100\% | 100\% | 89\% |
| 2010** | 68\% | 96\% | 78\% | 97\% | 96\% | 103\% | 116\% | 99\% | 102\% | 90\% |
| 2009 | 64\% | 99\% | 69\% | 99\% | 99\% | 102\% | 114\% | 107\% | 103\% | 87\% |
| 2008 | 65\% | 100\% | 70\% | 104\% | 103\% | 101\% | 117\% | 111\% | 105\% | 88\% |
| 2007 | 65\% | 101\% | 70\% | 108\% | 107\% | 95\% | 111\% | 107\% | 102\% | 87\% |

Note: Totals may not agree due to rounding.
*Liabilities valued using the PUC cost method at an interest rate of $6.8 \%$ (6.5\% for LEOFF 2). All assets have been valued under the actuarial asset method.
**LEOFF 2 values for 2010 were updated after the 2010 AVR was published.

| Funded Status at a 1\% Higher Interest Rate Assumption* |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in Millions) | PERS |  | TRS |  | $\begin{gathered} \text { SERS } \\ \text { Plan } 2 / 3 \end{gathered}$ | PSERS <br> Plan 2 | LEOFF |  | WSPRS | Total |
|  | Plan 1 | Plan 2/3 | Plan 1 | Plan 2/3 |  |  | Plan 1 | Plan 2 |  |  |
| PUC Liability | \$11,914 | \$20,600 | \$8,741 | \$6,838 | \$2,845 | \$147 | \$4,039 | \$5,808 | \$843 | \$61,775 |
| Valuation Assets | \$8,053 | \$24,335 | \$6,717 | \$8,406 | \$3,335 | \$224 | \$5,516 | \$7,862 | \$1,009 | \$65,458 |
| Unfunded Liability | \$3,861 | $(\$ 3,735)$ | \$2,023 | $(\$ 1,568)$ | (\$490) | (\$78) | $(\$ 1,477)$ | $(\$ 2,054)$ | (\$167) | $(\$ 3,683)$ |
| Funded Ratio |  |  |  |  |  |  |  |  |  |  |
| 2013 | 68\% | 118\% | 77\% | 123\% | 117\% | 153\% | 137\% | 135\% | 120\% | 106\% |
| 2012 | 74\% | 128\% | 85\% | 133\% | 126\% | 162\% | 146\% | 140\% | 129\% | 113\% |
| 2011 | 76\% | 129\% | 87\% | 133\% | 127\% | 161\% | 146\% | 140\% | 130\% | 113\% |
| 2010** | 80\% | 130\% | 91\% | 136\% | 130\% | 157\% | 139\% | 141\% | 133\% | 115\% |
| 2009 | 76\% | 135\% | 82\% | 140\% | 134\% | 158\% | 137\% | 152\% | 135\% | 112\% |
| 2008 | 77\% | 139\% | 84\% | 149\% | 141\% | 157\% | 141\% | 159\% | 137\% | 113\% |
| 2007 | 77\% | 141\% | 84\% | 155\% | 148\% | 149\% | 135\% | 154\% | 134\% | 112\% |

[^3]
## Funded Status on a Market Value Basis

We report funded status on a market value basis as the ratio of the MVA to the PUC liability calculated using a 5 percent interest rate assumption. The funded status on a market value basis provides a measure of the plan's health if the plan is "settled" or "immunized" on the valuation date. Immunizing a pension plan means attaching assets to liabilities so the assets maturing each year match the expected pension payments due from the pension plan each year. A plan can be settled by purchasing annuities on the open market for each member, or immunized by investing the assets in bonds with payment streams that match the expected benefit payments. Expected benefit payments would include growth for future salary inflation, which is why we have used the PUC liability measure instead of a purely accrued liability measure.
Because most of the Washington State plans covered in this valuation report are open and ongoing, we only present the market value
funded status for the closed Plans 1. Although the Plans 1 are closed to new members, they are not settled and have not been immunized. However, there is an opportunity to immunize these plans in the future. They are considered ongoing plans because current annuitants continue to receive their benefits from the retirement trust fund, and current active members continue to accrue benefits under the plan. However, because the plans are closed to new members, the future benefit payments are more predictable, have a shorter duration, and would be easier to immunize. The decision to settle or immunize the Plans 1 is complex and would require additional actuarial analysis and information that is outside the scope of this report.

The table below displays the market value funded status for each plan as described above.

Both funded status measures vary based on the measurement (valuation) date and the market conditions on that date. The market value measure, however, is more volatile because the asset value has no smoothing and the ability to immunize the plan depends on current bond and annuity purchase rates.

| Funded Status on a Market Value Basis* |  |  |  |
| :---: | :---: | :---: | :---: |
| (Dollars in Millions) | PERS | TRS | LEOFF |
|  | Plan 1 | Plan 1 | Plan 1 |
| Projected Unit Credit Liability | \$16,561 | \$12,134 | \$5,840 |
| Market Value of Assets | 7,347 | 6,127 | 5,140 |
| Unfunded Liability | \$9,214 | \$6,007 | \$701 |
| Funded Ratio |  |  |  |
| 2013 | 44\% | 50\% | 88\% |
| 2012 | 47\% | 54\% | 91\% |
| 2011 | 51\% | 58\% | 95\% |
| 2010 | 49\% | 56\% | 82\% |
| 2009 | 43\% | 46\% | 76\% |
| 2008 | 60\% | 65\% | 107\% |
| 2007 | 66\% | 70\% | 114\% |
| 2006 | 64\% | 67\% | 102\% |
| 2005 | 61\% | 63\% | 94\% |
| 2004 | 59\% | 60\% | 82\% |

[^4]
## Actuarial Gains/Losses

The next three tables display actuarial gains and losses, expressed as contribution rate changes. Actuaries use gain/loss analysis to compare actual changes to assumed changes in assets, liabilities, and salaries from various sources. We also use this analysis to determine:

- The accuracy of our valuation model and annual processing.
- Why contribution rates changed.
- The reasonableness of the actuarial assumptions.

Actuarial gains will reduce contribution rates; actuarial losses will increase contribution rates. Under a reasonable set of actuarial assumptions, actuarial gains and losses will offset over long-term experience periods.

| Change in Employer and State Contribution Rate by Source |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Change in Employer Rate | PERS | TRS | SERS* | PSERS* | LEOFF** | WSPRS |
| 2012 Contribution Rate Before Laws of 2013 | 9.15\% | 10.68\% | 9.80\% | 10.28\% | (8.79\%) | 7.76\% |
| Remove Rate Floor / Ceiling | 0.00\% | (0.21\%) | 0.00\% | 0.00\% | (0.74\%) | (4.66\%) |
| Remove Plan 1 Benefit Improvements After 2009 | (0.14\%) | (0.15\%) | (0.14\%) | (0.14\%) | N/A | N/A |
| Remove Prior Liability and LEOFF 1 Funding Method Changes | (0.11\%) | (0.77\%) | (1.00\%) | 0.00\% | 0.34\% | (1.32\%) |
| 2012 Adjusted Contribution Rate | 8.90\% | 9.55\% | 8.66\% | 10.14\% | (9.19\%) | 1.78\% |
| Liability Gains/Losses | 0.15\% | 0.29\% | 0.33\% | 0.32\% | 0.04\% | 0.70\% |
| Asset Gains/Losses | 0.73\% | 1.15\% | 0.45\% | (0.02\%) | 0.89\% | 0.69\% |
| Present Value of Future Salaries Gains/Losses | (0.48\%) | (0.79\%) | (0.43\%) | (0.39\%) | (0.40\%) | (0.17\%) |
| Incremental Changes | 2.81\% | 3.41\% | 1.85\% | 0.86\% | 2.98\% | 4.51\% |
| Other Gains/Losses | (0.07\%) | (0.06\%) | 0.88\% | 1.02\% | (0.20\%) | (0.18\%) |
| Total Change | 3.14\% | 4.00\% | 3.08\% | 1.79\% | 3.31\% | 5.55\% |
| 2013 Preliminary Contribution Rate | 12.04\% | 13.55\% | 11.74\% | 11.93\% | (5.88\%) | 7.33\% |
| Increase from Applied Rate Floor | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.40\% | 0.00\% |
| Decrease from Applied Rate Ceiling | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | N/A |
| Increase from Plan 1 Benefit Improvements After 2009 | 0.14\% | 0.15\% | 0.14\% | 0.14\% | N/A | N/A |
| Rate to Amortize Prior Liability | 0.11\% | 0.77\% | 1.00\% | 0.00\% | 0.00\% | 1.32\% |
| Excess Member Rate | N/A | 0.00\% | N/A | N/A | N/A | 0.14\% |
| Laws of 2014 | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| 2013 Adjusted Contribution Rate | 12.29\% | 14.47\% | 12.88\% | 12.07\% | (5.48\%) | 8.79\% |

*The SERS and PSERS rates include the UAAL rate for PERS Plan 1. The "Other Gains/Losses" category includes
the "Total Change" for the PERS 1 UAAL rate in those systems.
**The LEOFF contribution rate is the state's portion for Plan 2 ( $20 \%$ of the Normal Cost) plus the UAAL rate for Plan 1.

| Change in Employer and State Plan 2/3 Normal Cost Rate by Source |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Change in Normal Costs | PERS | TRS | SERS | PSERS | LEOFF* | WSPRS** |
| 2012 Normal Cost Before Laws of 2013 | 4.94\% | 5.72\% | 5.59\% | 6.07\% | 3.10\% | 7.76\% |
| Remove Rate Floor / Ceiling | 0.00\% | (0.21\%) | 0.00\% | 0.00\% | (0.74\%) | (4.66\%) |
| Remove Prior Employer Liability | (0.11\%) | (0.77\%) | (1.00\%) | 0.00\% | 0.00\% | (1.32\%) |
| 2012 Adjusted Normal Cost Rate | 4.83\% | 4.74\% | 4.59\% | 6.07\% | 2.36\% | 1.78\% |
| Liabilities |  |  |  |  |  |  |
| Salaries | (0.40\%) | (0.49\%) | (0.36\%) | (0.28\%) | (0.14\%) | (0.58\%) |
| Termination | (0.11\%) | (0.26\%) | (0.12\%) | (0.07\%) | 0.00\% | 0.02\% |
| Retirement | 0.03\% | 0.05\% | 0.04\% | 0.00\% | (0.01\%) | (0.13\%) |
| Growth / Return to Work | 0.44\% | 0.89\% | 0.61\% | 0.69\% | 0.16\% | 0.65\% |
| Other Liabilities | 0.18\% | 0.10\% | 0.16\% | (0.02\%) | 0.04\% | 0.74\% |
| Total Liability Gains/Losses | 0.14\% | 0.29\% | 0.33\% | 0.32\% | 0.05\% | 0.70\% |
| Asset Gains/Losses | 0.25\% | 0.26\% | 0.45\% | (0.02\%) | (0.02\%) | 0.69\% |
| Present Value of Future Salaries Gains/Losses | (0.23\%) | (0.39\%) | (0.43\%) | (0.39\%) | (0.06\%) | (0.17\%) |
| Incremental Changes |  |  |  |  |  |  |
| Plan Change | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Method Change | 0.00\% | 0.00\% | (0.02\%) | 0.00\% | 0.00\% | 0.00\% |
| Assumption Change | 0.38\% | 0.40\% | 0.41\% | 0.20\% | 0.00\% | 0.98\% |
| Correction Change | 0.00\% | 0.00\% | 0.00\% | (0.02\%) | 0.00\% | 0.00\% |
| Experience Study Change | 1.67\% | 1.54\% | 1.46\% | 0.68\% | 0.43\% | 3.53\% |
| Total Incremental Changes Gains/Losses | 2.05\% | 1.94\% | 1.85\% | 0.86\% | 0.43\% | 4.51\% |
| Other Gains/Losses | (0.04\%) | (0.05\%) | (0.09\%) | 0.05\% | 0.03\% | (0.18\%) |
| Total Change | 2.17\% | 2.05\% | 2.11\% | 0.82\% | 0.43\% | 5.55\% |
| 2013 Preliminary Normal Cost | 7.00\% | 6.79\% | 6.70\% | 6.89\% | 2.79\% | 7.33\% |
| Increase from Applied Rate Floor | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.40\% | 0.00\% |
| Rate to Amortize Prior Employer Liability | 0.11\% | 0.77\% | 1.00\% | 0.00\% | 0.00\% | 1.32\% |
| Excess Member Rate | N/A | 0.00\% | N/A | N/A | N/A | 0.14\% |
| Laws of 2014 | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| 2013 Adjusted Normal Cost | 7.11\% | 7.56\% | 7.70\% | 6.89\% | 3.19\% | 8.79\% |

*The LEOFF contribution rate is the state's portion only (20\% of the Plan 2 Normal Cost).
**The WSPRS normal cost contribution rate applies to Plans 1 and 2.

| Change in Employer and State Plan 1 UAAL Rate by Source |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Change in UAAL Rate | PERS | TRS | SERS* | PSERS* | LEOFF** | WSPRS |
| 2012 UAAL Rate Before Laws of 2013 | 4.21\% | 4.96\% | 4.21\% | 4.21\% | (11.89\%) | N/A |
| Remove Rate Floor / Ceiling | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | N/A |
| Remove Plan 1 Benefit Improvements After 2009 | (0.14\%) | (0.15\%) | (0.14\%) | (0.14\%) | N/A | N/A |
| LEOFF 1 Roll Forward Funding Method | N/A | N/A | N/A | N/A | 0.34\% | N/A |
| 2012 Adjusted UAAL Rate | 4.07\% | 4.81\% | 4.07\% | 4.07\% | (11.55\%) | N/A |
| Liabilities |  |  |  |  |  |  |
| Salaries | (0.03\%) | (0.06\%) | N/A | N/A | (0.03\%) | N/A |
| Termination | 0.00\% | 0.00\% | N/A | N/A | 0.00\% | N/A |
| Retirement | (0.01\%) | (0.03\%) | N/A | N/A | (0.02\%) | N/A |
| Return to Work | 0.00\% | 0.00\% | N/A | N/A | 0.00\% | N/A |
| Inflation (CPI) | 0.00\% | 0.00\% | N/A | N/A | (0.14\%) | N/A |
| Other Liabilities | 0.05\% | 0.09\% | N/A | N/A | 0.18\% | N/A |
| Total Liability Gains/Losses | 0.01\% | 0.00\% | N/A | N/A | (0.01\%) | N/A |
| Asset Gains/Losses | 0.48\% | 0.89\% | N/A | N/A | 0.91\% | N/A |
| Present Value of Future Salaries Gains/Losses | (0.25\%) | (0.40\%) | N/A | N/A | (0.34\%) | N/A |
| Incremental Changes |  |  |  |  |  |  |
| Plan Change | 0.00\% | 0.00\% | N/A | N/A | 0.00\% | N/A |
| Method Change | 0.01\% | 0.00\% | N/A | N/A | 0.00\% | N/A |
| Assumption Change | 0.08\% | 0.16\% | N/A | N/A | 0.29\% | N/A |
| Correction Change | 0.00\% | 0.02\% | N/A | N/A | 0.00\% | N/A |
| Experience Study Change | 0.67\% | 1.29\% | N/A | N/A | 2.26\% | N/A |
| Total Incremental Changes Gains/Losses | 0.76\% | 1.47\% | N/A | N/A | 2.55\% | N/A |
| Other Gains/Losses | (0.03\%) | (0.01\%) | N/A | N/A | (0.23\%) | N/A |
| Total Change | 0.97\% | 1.95\% | 0.97\% | 0.97\% | 2.88\% | N/A |
| 2013 Preliminary UAAL Rate | 5.04\% | 6.76\% | 5.04\% | 5.04\% | (8.67\%) | N/A |
| Increase from Applied Rate Floor | 0.00\% | 0.00\% | 0.00\% | 0.00\% | N/A | N/A |
| Decrease from Applied Rate Ceiling | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | N/A |
| Increase from Plan 1 Benefit Improvements After 2009 | 0.14\% | 0.15\% | 0.14\% | 0.14\% | N/A | N/A |
| Laws of 2014 | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | N/A |
| 2013 Adjusted UAAL Rate | 5.18\% | 6.91\% | 5.18\% | 5.18\% | (8.67\%) | N/A |

*The SERS and PSERS rates are to fund the PERS Plan 1 UAAL.
**The LEOFF contribution rate is the UAAL rate for plan 1. The plan has a surplus of assets over liabilities, so no rate is currently payable.

## Effect of Plan, Assumption, and Method Changes

In addition to experience gains or losses, changes in plan provisions or actuarial assumptions or methods can also impact contribution rates.

## Plan Changes

- None.


## Assumption Changes

- For all systems, except LEOFF 2, we lowered the assumed long-term rate of return from 7.9 to 7.8 percent.
- We updated assumed administrative factors.
- We updated demographic assumptions as a result of the 2007-2012 Experience Study.


## Method Changes

- We changed the structure of PSERS termination benefits within our valuation software.
- We changed how we value survivorbeneficiary benefits under the Basic Minimum COLA in PERS 1 and TRS 1.


## Other Changes

- None.


## Effect of Changes on the Current Valuation

The table below shows the effect of the above changes on the current actuarial valuation results.

| Effect of Plan, Assumption, and Method Changes |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS 1 | PERS 2/3 | TRS 1 | TRS 2/3 | SERS 2/3 | PSERS 2 | LEOFF 1 | LEOFF 2* | WSPRS |
| Before Changes |  |  |  |  |  |  |  |  |  |
| PVFB | \$12,269 | \$30,635 | \$8,901 | \$11,036 | \$4,173 | \$539 | \$4,092 | \$9,814 | \$1,064 |
| PUC Liability | 12,148 | 22,139 | 8,862 | 7,440 | 3,080 | 167 | 4,083 | 6,655 | 904 |
| Actuarial Value of Assets | 8,053 | 24,335 | 6,717 | 8,406 | 3,335 | 224 | 5,516 | 7,862 | 1,009 |
| Unfunded Liability | 4,095 | $(2,196)$ | 2,145 | (966) | (255) | (57) | $(1,433)$ | $(1,208)$ | (106) |
| Employer Contribution Rate | 9.47\% | 9.47\% | 11.14\% | 11.14\% | 10.21\% | 10.37\% | 0.00\% | 4.64\% | 7.70\% |
| After Changes |  |  |  |  |  |  |  |  |  |
| PVFB | \$13,012 | \$33,404 | \$9,491 | \$12,025 | \$4,495 | \$595 | \$4,420 | \$10,314 | \$1,132 |
| PUC Liability | 12,884 | 23,798 | 9,449 | 8,016 | 3,273 | \$180 | 4,410 | 6,859 | 959 |
| Actuarial Value of Assets | 8,053 | 24,335 | 6,717 | 8,406 | 3,335 | \$224 | 5,516 | 7,862 | 1,009 |
| Unfunded Liability | 4,831 | (537) | 2,732 | (390) | (62) | (\$44) | $(1,107)$ | $(1,003)$ | (50) |
| Employer Contribution Rate | 12.29\% | 12.29\% | 14.47\% | 14.47\% | 12.88\% | 12.07\% | 0.00\% | 4.78\% | 8.79\% |
| Increase / (Decrease) in Rate | 2.82\% | 2.82\% | 3.33\% | 3.33\% | 2.67\% | 1.70\% | 0.00\% | 0.14\% | 1.09\% |

Before and after changes include actuarial gains and losses for the year ending 6/30/2013.
Both before and after contribution rates include rate minimums and maximums.
*The LEOFF Plan 2 contribution rate is the employer's portion only ( $30 \%$ of the Plan 2 Normal Cost)

3

## Participant Data



## Overview of System Membership

The state administers nine retirement systems for state and local public employees. Retirement system membership is determined according to the participant's occupation and employer. Employees covered by each system are defined in separate chapters of the Revised Code of Washington.

In addition to the six systems described below, the state also administers benefits for volunteer fire fighters and two small judicial systems, which
are not included in this valuation. The volunteer fire fighters have a separate actuarial valuation. The judicial systems are closed to new members, and any judge hired after June 30, 1988, becomes a member of the Public Employees' Retirement System Plans 2/3.

Beginning with the 2015 valuation period, OSA will also perform valuations for certain retirement provisions under Higher Education Retirement Plans. These plans are offered to
certain employees of colleges and universities in Washington and are not administered by the Department of Retirement Systems. The results of these valuations will be provided in separate reports.
$\left.\begin{array}{ll}\begin{array}{l}\text { PERS - Public Employees' Retirement System } \\ \text { Chapter 41.40 RCW }\end{array} & \begin{array}{l}\text { State employees; employees of all counties and most cities } \\ \text { (some exceptions are Tacoma, Seattle, and Spokane); non- } \\ \text { teaching employees of institutions of higher learning and } \\ \text { community colleges; employees of ports, service districts, }\end{array} \\ \text { Energy Northwest, public utility districts, and judges first } \\ \text { elected or appointed after June 30, 1988. }\end{array}\right\}$Participantata

| Active Membership By Employer and Plan |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All |  | PERS |  |  | TRS |  |
| Employer | Systems | Plan 1 | Plan 2 | Plan 3 | Plan 1 | Plan 2 | Plan 3 |
| State Agencies | 58,372 | 1,811 | 41,932 | 10,887 | 21 | 27 | 43 |
| Higher Education | 21,228 | 581 | 13,997 | 6,432 | 19 | 7 | 82 |
| Community Colleges | 5,959 | 175 | 4,210 | 1,322 | 50 | 32 | 170 |
| K-12 | 117,219 | 1,336 | 0 | 0 | 2,292 | 11,922 | 50,965 |
| Counties | 34,263 | 857 | 24,228 | 4,605 | 0 | 0 | 0 |
| County Sub Divisions | 12,397 | 269 | 9,770 | 2,064 | 0 | 0 | 0 |
| First Class Cities | 8,156 | 96 | 2,487 | 581 | 0 | 0 | 0 |
| Other Cities | 17,492 | 298 | 10,279 | 1,829 | 0 | 0 | 0 |
| Ports | 2,380 | 45 | 1,833 | 329 | 0 | 0 | 0 |
| Education Service District | 1,930 | 34 | 0 | 0 | 11 | 83 | 211 |
| Fire Districts | 4,295 | 7 | 667 | 91 | 0 | 0 | 0 |
| Public Utility District | 4,571 | 89 | 3,896 | 586 | 0 | 0 | 0 |
| Water Districts | 1,886 | 44 | 1,628 | 214 | 0 | 0 | 0 |
| Energy Northwest | 1,192 | 6 | 824 | 362 | 0 | 0 | 0 |
| Unions | 5 | 5 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 291,345 | 5,653 | 115,751 | 29,302 | 2,393 | 12,071 | 51,471 |


| Active Membership By Employer and Plan (Continued) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SERS |  | PSERS | LEOFF |  | WSPRS |  |
| Employer | Plan 2 | Plan 3 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 |
| State Agencies | 0 | 0 | 2,461 | 0 | 124 | 657 | 409 |
| Higher Education | 0 | 0 | 0 | 0 | 110 | 0 | 0 |
| Community Colleges | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| K-12 | 21,020 | 29,684 | 0 | 0 | 0 | 0 | 0 |
| Counties | 0 | 0 | 1,803 | 17 | 2,753 | 0 | 0 |
| County Sub Divisions | 0 | 0 | 81 | 2 | 211 | 0 | 0 |
| First Class Cities | 0 | 0 | 26 | 76 | 4,890 | 0 | 0 |
| Other Cities | 0 | 0 | 142 | 33 | 4,911 | 0 | 0 |
| Ports | 0 | 0 | 0 | 0 | 173 | 0 | 0 |
| Education Service District | 740 | 851 | 0 | 0 | 0 | 0 | 0 |
| Fire Districts | 0 | 0 | 0 | 15 | 3,515 | 0 | 0 |
| Public Utility District | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Districts | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Energy Northwest | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unions | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 21,760 | 30,535 | 4,513 | 143 | 16,687 | 657 | 409 |

The following tables show participant data changes from last year's valuation to this year's valuation. We divide the participant data into two main categories:

- Actives - members accruing benefits in the plan.
- Annuitants - members and beneficiaries receiving benefits from the plan.

| Reconciliation of Participant Data |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS |  |  | TRS |  |  |  |  |
|  | Plan 1 | Plan 2 | Plan 3 | Total | Plan 1 | Plan 2 | Plan 3 | Total |
| 2012 Actives | 6,635 | 115,877 | 28,078 | 150,590 | 3,019 | 10,849 | 51,489 | 65,357 |
| Transfers | , | (136) | 3,950 | 3,814 | 0 | (17) | 1,737 | 1,720 |
| Hires/Rehires | 112 | 10,045 | 738 | 10,895 | 21 | 2,189 | 1,461 | 3,671 |
| New Retirees | (940) | $(2,584)$ | (238) | $(3,762)$ | (614) | (228) | (575) | $(1,417)$ |
| Deaths | (22) | (218) | (29) | (269) | (8) | (8) | (34) | (50) |
| Terminations | (132) | $(7,233)$ | $(3,197)$ | $(10,562)$ | (25) | (714) | $(2,607)$ | $(3,346)$ |
| 2013 Actives | 5,653 | 115,751 | 29,302 | 150,706 | 2,393 | 12,071 | 51,471 | 65,935 |
| 2012 Annuitants | 52,672 | 27,820 | 1,750 | 82,242 | 36,054 | 3,060 | 3,804 | 42,918 |
| New Retirees | 1,226 | 3,902 | 387 | 5,515 | 721 | 412 | 1,045 | 2,178 |
| Annuitant Deaths | $(2,391)$ | (649) | (23) | $(3,063)$ | $(1,019)$ | (36) | (24) | $(1,079)$ |
| New Survivors | 370 | 265 | 27 | 662 | 168 | 10 | 38 | 216 |
| Other | (17) | (9) | (2) | (28) | (12) | (1) | 0 | (13) |
| 2013 Annuitants | 51,860 | 31,329 | 2,139 | 85,328 | 35,912 | 3,445 | 4,863 | 44,220 |
| Ratio Actives to Annuitants | 0.11 | 3.69 | 13.70 | 1.77 | 0.07 | 3.50 | 10.58 | 1.49 |


|  | Reconciliation of Participant Data (Continued) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | SERS |  | PSERS |  | LEOFF |  | WSPRS |  |  | All |
|  | Plan 2 | Plan 3 | Total | Plan 2 | Plan 1 | Plan 2 | Total | Plan 1 | Plan 2 | Total | Systems |
| 2012 Actives | 20,846 | 30,712 | 51,558 | 4,250 | 186 | 16,720 | 16,906 | 712 | 354 | 1,066 | 289,727 |
| Transfers | (46) | 2,048 | 2,002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,536 |
| Hires/Rehires | 2,959 | 649 | 3,608 | 596 | 0 | 612 | 612 | 1 | 62 | 63 | 19,445 |
| New Retirees | (446) | (481) | (927) | (13) | (42) | (366) | (408) | (54) | 0 | (54) | $(6,581)$ |
| Deaths | (36) | (35) | (71) | (2) | 0 | (11) | (11) | (1) | 0 | (1) | (404) |
| Terminations | $(1,517)$ | $(2,358)$ | $(3,875)$ | (318) | (1) | (268) | (269) | (1) | (7) | (8) | $(18,378)$ |
| 2013 Actives | 21,760 | 30,535 | 52,295 | 4,513 | 143 | 16,687 | 16,830 | 657 | 409 | 1,066 | 291,345 |
| 2012 Annuitants | 4,437 | 3,214 | 7,651 | 27 | 7,845 | 2,344 | 10,189 | 915 | 0 | 915 | 143,942 |
| New Retirees | 691 | 785 | 1,476 | 16 | 42 | 441 | 483 | 55 | 0 | 55 | 9,723 |
| Annuitant Deaths | (82) | (22) | (104) | 0 | (261) | (16) | (277) | (18) | 0 | (18) | $(4,541)$ |
| New Survivors | 38 | 18 | 56 | 0 | 104 | 16 | 120 | 12 | 0 | 12 | 1,066 |
| Other | 0 | 0 | 0 | 0 | (1) | (3) | (4) | 0 | 0 | 0 | (45) |
| 2013 Annuitants | 5,084 | 3,995 | 9,079 | 43 | 7,729 | 2,782 | 10,511 | 964 | 0 | 964 | 150,145 |
| Ratio Actives to Annuitants | 4.28 | 7.64 | 5.76 | 104.95 | 0.02 | 6.00 | 1.60 | 0.68 | N/A | 1.11 | 1.94 |

## Summary of Plan Participants

| Summary of Plan Participants |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PERS | 2013 |  |  |  | 2012 |  |  |  |
|  | Plan 1 | Plan 2 | Plan 3 | Total | Plan 1 | Plan 2 | Plan 3 | Total |
| Active Members |  |  |  |  |  |  |  |  |
| Number | 5,653 | 115,751 | 29,302 | 150,706 | 6,635 | 115,877 | 28,078 | 150,590 |
| Total Salaries (millions) | \$318 | \$6,759 | \$1,581 | \$8,657 | \$371 | \$6,688 | \$1,504 | \$8,563 |
| Average Age | 62.2 | 48.4 | 43.6 | 48.0 | 61.5 | 48.4 | 43.5 | 48.1 |
| Average Service | 24.5 | 12.6 | 8.7 | 12.3 | 24.1 | 12.5 | 8.7 | 12.3 |
| Average Salary | \$56,224 | \$58,388 | \$53,948 | \$57,444 | \$55,878 | \$57,718 | \$53,579 | \$56,865 |
| Terminated Members |  |  |  |  |  |  |  |  |
| Number Vested | 1,384 | 25,383 | 4,280 | 31,047 | 1,594 | 24,953 | 3,968 | 30,515 |
| Number "Non-Vested" | 3,810 | 97,381 | 0 | 101,191 | 4,042 | 95,834 | 0 | 99,876 |
| Retirees (including L\&I disabled) |  |  |  |  |  |  |  |  |
| Number of Retirees (All) | 51,860 | 31,329 | 2,139 | 85,328 | 52,672 | 27,820 | 1,750 | 82,242 |
| Average Monthly Benefit, All Retirees | \$1,892 | \$1,256 | \$723 | \$1,629 | \$1,850 | \$1,158 | \$675 | \$1,591 |
| Number of New "Service Retirees" | 1,209 | 3,782 | 375 | 5,366 | 1,289 | 3,314 | 347 | 4,950 |
| Avg. Monthly Benefit, New "Service Retirees" | \$2,350 | \$1,731 | \$896 | \$1,812 | \$2,361 | \$1,618 | \$877 | \$1,760 |


| Summary of Plan Participants (Continued) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRS | 2013 |  |  |  | 2012 |  |  |  |
|  | Plan 1 | Plan 2 | Plan 3 | Total | Plan 1 | Plan 2 | Plan 3 | Total |
| Active Members |  |  |  |  |  |  |  |  |
| Number | 2,393 | 12,071 | 51,471 | 65,935 | 3,019 | 10,849 | 51,489 | 65,357 |
| Total Salaries (millions) | \$183 | \$740 | \$3,483 | \$4,406 | \$229 | \$669 | \$3,408 | \$4,305 |
| Average Age | 63.0 | 44.5 | 46.1 | 46.4 | 62.3 | 45.7 | 45.7 | 46.5 |
| Average Service | 30.1 | 10.1 | 13.7 | 13.6 | 29.3 | 11.0 | 13.3 | 13.7 |
| Average Salary | \$76,549 | \$61,320 | \$67,664 | \$66,825 | \$75,681 | \$61,648 | \$66,191 | \$65,875 |
| Terminated Members |  |  |  |  |  |  |  |  |
| Number Vested | 391 | 2,330 | 7,102 | 9,823 | 477 | 2,348 | 6,720 | 9,545 |
| Number "Non-Vested" | 453 | 4,812 | 0 | 5,265 | 505 | 4,626 | 0 | 5,131 |
| Temporarily Disabled | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Retirees |  |  |  |  |  |  |  |  |
| Number of Retirees (All) | 35,912 | 3,445 | 4,863 | 44,220 | 36,054 | 3,060 | 3,804 | 42,918 |
| Average Monthly Benefit, All Retirees | \$2,060 | \$1,612 | \$903 | \$1,898 | \$2,028 | \$1,516 | \$837 | \$1,886 |
| Number of New "Service Retirees" | 717 | 409 | 1,028 | 2,154 | 841 | 409 | 843 | 2,093 |
| Avg. Monthly Benefit, New "Service Retirees" | \$2,973 | \$2,014 | \$1,098 | \$1,896 | \$2,885 | \$1,858 | \$1,023 | \$1,935 |


| Summary of Plan Participants (Continued) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SERS | 2013 |  |  | 2012 |  |  |
|  | Plan 2 | Plan 3 | Total | Plan 2 | Plan 3 | Total |
| Active Members |  |  |  |  |  |  |
| Number | 21,760 | 30,535 | 52,295 | 20,846 | 30,712 | 51,558 |
| Total Salaries (millions) | \$623 | \$892 | \$1,514 | \$594 | \$885 | \$1,479 |
| Average Age | 51.1 | 50.6 | 50.8 | 51.3 | 50.4 | 50.8 |
| Average Service | 10.8 | 10.7 | 10.7 | 11.1 | 10.5 | 10.7 |
| Average Salary | \$28,620 | \$29,195 | \$28,956 | \$28,494 | \$28,810 | \$28,682 |
| Terminated Members |  |  |  |  |  |  |
| Number Vested | 5,190 | 6,398 | 11,588 | 4,992 | 5,928 | 10,920 |
| Number "Non-Vested" | 8,861 | 0 | 8,861 | 8,143 | 0 | 8,143 |
| Retirees |  |  |  |  |  |  |
| Number of Retirees (All) | 5,084 | 3,995 | 9,079 | 4,437 | 3,214 | 7,651 |
| Average Monthly Benefit, All Retirees | \$780 | \$410 | \$617 | \$738 | \$389 | \$591 |
| Number of New "Service Retirees" | 669 | 770 | 1,439 | 627 | 607 | 1,234 |
| Average Monthly Benefit, New "Service Retirees" | \$942 | \$466 | \$687 | \$914 | \$442 | \$682 |


| Summary of Plan Participants (Continued) |  |  |
| :---: | :---: | :---: |
| PSERS | 2013 | 2012 |
|  | Plan 2 | Plan 2 |
| Active Members |  |  |
| Number | 4,513 | 4,250 |
| Total Salaries (millions) | \$253 | \$238 |
| Average Age | 40.4 | 40.1 |
| Average Service | 4.8 | 4.3 |
| Average Salary | \$56,075 | \$55,999 |
| Terminated Members |  |  |
| Number Vested | 119 | 60 |
| Number "Non-Vested" | 1,383 | 1,329 |
| Retirees |  |  |
| Number of Retirees (All) | 43 | 27 |
| Average Monthly Benefit, All Retirees | \$358 | \$264 |
| Number of New "Service Retirees" | 16 | 9 |
| Average Monthly Benefit, New "Service Retirees" | \$511 | \$340 |


| Summary of Plan Participants (Continued) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LEOFF | 2013 |  |  | 2012 |  |  |
|  | Plan 1 | Plan 2 | Total | Plan 1 | Plan 2 | Total |
| Active Members |  |  |  |  |  |  |
| Number | 143 | 16,687 | 16,830 | 186 | 16,720 | 16,906 |
| Total Salaries (millions) | \$15 | \$1,597 | \$1,612 | \$19 | \$1,560 | \$1,579 |
| Average Age | 61.9 | 43.5 | 43.7 | 60.9 | 43.2 | 43.4 |
| Average Service | 38.2 | 14.6 | 14.8 | 37.1 | 14.3 | 14.6 |
| Average Salary | \$103,362 | \$95,694 | \$95,759 | \$100,828 | \$93,308 | \$93,391 |
| Terminated Members |  |  |  |  |  |  |
| Number Vested | 1 | 698 | 699 | 0 | 689 | 689 |
| Number "Non-Vested" | 35 | 1,565 | 1,600 | 41 | 1,558 | 1,599 |
| Retirees |  |  |  |  |  |  |
| Number of Retirees (All) | 7,729 | 2,782 | 10,511 | 7,845 | 2,344 | 10,189 |
| Average Monthly Benefit, All Retirees | \$3,841 | \$3,151 | \$3,658 | \$3,720 | \$2,911 | \$3,534 |
| Number of New "Service Retirees"* | 42 | 402 | 444 | 63 | 323 | 386 |
| Average Monthly Benefit, New "Service Retirees"* | \$7,106 | \$4,091 | \$4,376 | \$6,777 | \$3,970 | \$4,428 |


| Summary of Plan Participants (Continued) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WSPRS | 2013 |  |  | 2012 |  |  |
|  | Plan 1 | Plan 2 | Total | Plan 1 | Plan 2 | Total |
| Active Members |  |  |  |  |  |  |
| Number | 657 | 409 | 1,066 | 712 | 354 | 1,066 |
| Total Salaries (millions) | \$54 | \$27 | \$80 | \$57 | \$23 | \$80 |
| Average Age | 45.6 | 32.5 | 40.6 | 45.2 | 32.5 | 41.0 |
| Average Service | 18.9 | 5.7 | 13.8 | 18.5 | 5.5 | 14.2 |
| Average Salary | \$81,465 | \$65,058 | \$75,170 | \$80,263 | \$65,165 | \$75,249 |
| Terminated Members |  |  |  |  |  |  |
| Number Vested | 70 | 10 | 80 | 71 | 8 | 79 |
| Number "Non-Vested" | 18 | 14 | 32 | 18 | 13 | 31 |
| Disabled Members* | 49 | 0 | 49 | 49 | 0 | 49 |
| Retirees |  |  |  |  |  |  |
| Number of Retirees (All) | 964 | 0 | 964 | 915 | 0 | 915 |
| Average Monthly Benefit, All Retirees | \$3,881 | \$0 | \$3,881 | \$3,748 | \$0 | \$3,748 |
| Number of New "Service Retirees" | 55 | 0 | 55 | 47 | 0 | 47 |
| Average Monthly Benefit, New "Service Retirees" | \$4,194 | \$0 | \$4,194 | \$3,949 | \$0 | \$3,949 |

## 4 <br> Appendices



## Actuarial Methods and Assumptions

To calculate the contribution rates necessary to pre-fund the plan's benefits, an actuary uses an actuarial cost method, asset valuation method, economic assumptions, and demographic assumptions.

## Actuarial Cost Methods

The future benefit obligations (or costs of the plan) are spread over the working lifetimes of the plan members based on the actuarial cost method (or funding method) in place for the plan. This produces a future stream of contributions to pre-fund the plan's benefits. Different cost methods pre-fund plans at different rates. Some put more money in earlier whereas others put more money in later.

Actuarial cost methods generally have two parts, which serve to:

- Fund future benefits in a consistent manner from year to year.
- Make up for any shortfalls in prior funding, including differences in funding when experience differs from assumptions.
The two parts of an actuarial cost method are:
- The Normal Cost - the value of future benefits allocated to the current plan year under the actuarial cost method.
- Amortization of the Unfunded Actuarial Accrued Liability (UAAL) where the UAAL represents the amount of past service liability that exceeds the value of the plan's assets.

The Legislature was responsible for the selection of the actuarial cost and asset valuation methods. The actuarial cost methods for the Washington State retirement systems are as follows.

## Public Employees' Retirement System (PERS) Plan 1 and Teachers' Retirement System (TRS) Plan 1: We use a variation

 of the Entry Age Normal Cost Method (EANC) to determine the actuarial accrued liability. Under this method, the UAAL is equal to the unfunded actuarial present value of projected benefits less the actuarial present value of future normal costs for all active members and is reset at each valuation date. The present value of future normal costs is based on the Aggregate Normal Cost rate for Plans $2 / 3$ and the resulting UAAL is amortized over a rolling tenyear period, as a level percentage of projected system payroll. The projected payroll includes pay from Plan 2 and Plan 3 as well as projected payroll from future new entrants.As a result of this hybrid method, employers are charged the same contribution rate, regardless of the plan in which employees hold membership.

The method is subject to maximum contribution rates prior to 2015 and minimum contribution rates thereafter.

## Law Enforcement Officers' and Fire Fighters' (LEOFF) Plan 1: A

 variation of the Frozen Initial Liability Cost Method is used to determine the normal cost and the actuarial accrued liability for retirement, termination, and ancillary benefits. Under this method, the UAAL is equal to the unfunded actuarial present value of projected benefits less the actuarial present value of future normal costs for all active members and is reset at each valuation date. The present value of future normal costs is based on the Aggregate normal cost rate for Plan 2 and the resulting UAAL is amortized by June 30, 2024, as a level percentage of projected system payroll. The projected payroll includes pay from Plan 2 as well as projected payroll from future new entrants.Plans 2 and Plans 3: We use the Aggregate Cost Method to determine the normal cost and the actuarial accrued liability. Under this method, the unfunded actuarial present value of fully projected benefits is amortized over the future payroll of the active group. Plan 2 members pay 50 percent of the normal cost. The entire contribution is considered normal cost and no UAAL exists.

For TRS Plan 2, the maximum employee contribution rate is 6.59 percent plus 50 percent of the contribution rate increases from benefit improvements effective on or after July 1, 1996. The
employer picks up any employee cost sharing that exceeds the employee rate maximum. Please see the Actuarial
Exhibits section for a table showing the current TRS Plan 2 maximum member contribution rates.

## Washington State Patrol Retirement System (WSPRS): We

use the Aggregate Cost Method to determine the normal cost and the actuarial accrued liability. The entire normal cost is divided equally between the employee and the employer. The maximum employee contribution rate is 7 percent plus 50 percent of the contribution rate increases from benefit improvements effective on or after July 1, 2007. The employer picks up any employee cost sharing that exceeds the employee rate maximum. Please see the Actuarial Exhibits section for a table showing the current WSPRS Plans $1 / 2$ maximum member contribution rates.
In this valuation, we use the Projected Unit Credit (PUC) cost method to report the plan's funded status. The PUC cost method projects future benefits under the plan, using salary growth and other assumptions, and applies the service that has been earned as of the valuation date to determine accrued liabilities. Comparing the PUC liabilities to the actuarial value of assets on the valuation date provides an appropriate measure of a plan's funded status. Under current Governmental Accounting Standards Board (GASB) rules, the PUC method is one of several acceptable measures of a plan's funded status. Use of another cost method could also be considered appropriate and could produce materially different results.

Please see the Glossary for a further explanation of the PUC cost method.
GASB Statements 67 and 68 become effective after June 15, 2015, replace the current GASB Statements, and require use of the EANC for accounting purposes. We will begin reporting the EANC funded status with the next actuarial valuation report, as of June 30, 2014.

We use the plan's assets to calculate contribution rates, unfunded liabilities, and the plan's funded status. Because the market value of assets can be volatile from one year to the next, an asset valuation method is generally used to adjust the market value of assets and smooth the effects of short-term volatility. The adjusted assets are called the actuarial value of assets, or valuation assets.

## 4: Appendices

For this valuation, we calculate the Actuarial Value of Assets (AVA) using an asset smoothing method. This smoothing method was adopted during the 2003 Legislative Session. Each year, beginning with the application of this smoothing method, we determine the amount the actual investment return exceeds (or falls below) the expected investment return and we smooth that year's gain (or loss) based on the scale in the table below.

Additionally, to ensure the AVA maintains a reasonable relationship to the Market Value of Assets (MVA), a 30 percent corridor is in place. This means the AVA may not exceed 130 percent nor drop below 70 percent of the MVA in any valuation.

| Annual Gain/Loss |  |  |  |
| ---: | ---: | :---: | ---: |
| Rate of Return, <br> LEOFF 2 | Rate of Return, All <br> Other Plans | Smoothing <br> Period | Annual <br> Recognition |
| $14.5 \%$ and up | $14.9 \%$ and up | 8 years | $12.50 \%$ |
| $13.5-14.5 \%$ | $13.9-14.9 \%$ | 7 years | $14.29 \%$ |
| $12.5-13.5 \%$ | $12.9-13.9 \%$ | 6 years | $16.67 \%$ |
| $11.5-12.5 \%$ | $11.9-12.9 \%$ | 5 years | $20.00 \%$ |
| $10.5-11.5 \%$ | $10.9-11.9 \%$ | 4 years | $25.00 \%$ |
| $9.5-10.5 \%$ | $9.9-10.9 \%$ | 3 years | $33.33 \%$ |
| $8.5-9.5 \%$ | $8.9-9.9 \%$ | 2 years | $50.00 \%$ |
| $6.5-8.5 \%$ | $6.9-8.9 \%$ | 1 year | $100.00 \%$ |
| $5.5-6.5 \%$ | $5.9-6.9 \%$ | 2 years | $50.00 \%$ |
| $4.5-5.5 \%$ | $4.9-5.9 \%$ | 3 years | $33.33 \%$ |
| $3.5-4.5 \%$ | $3.9-4.9 \%$ | 4 years | $25.00 \%$ |
| $2.5-3.5 \%$ | $2.9-3.9 \%$ | 5 years | $20.00 \%$ |
| $1.5-2.5 \%$ | $1.9-2.9 \%$ | 6 years | $16.67 \%$ |
| $0.5-1.5 \%$ | $0.9-1.9 \%$ | 7 years | $14.29 \%$ |
| $0.5 \%$ and lower | $0.9 \%$ and lower | 8 years | $12.50 \%$ |

## Economic Assumptions

These generally include the annual rate of return on plan assets, annual rate of inflation, and annual rate of salary growth. The economic assumptions used in this actuarial valuation are
prescribed by the Legislature, the PFC, and the LEOFF Plan 2 Retirement Board, and are shown in the following table.

| Economic Assumptions |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| By System | PERS | TRS | SERS | PSERS | LEOFF | WSPRS |
| Annual Growth in Membership | 0.95\% | 0.80\% | 0.95\% | 0.95\% | 1.25\% | 0.95\% |
| Interest on Member Contributions ${ }^{1}$ | 5.50\% | 5.50\% | 5.50\% | 5.50\% | 5.50\% | 5.50\% |
| Return on Investment Earnings ${ }^{2}$ | 7.80\% | 7.80\% | 7.80\% | 7.80\% | 7.80\% | 7.80\% |
| Inflation ${ }^{3}$ | 3.00\% | 3.00\% | 3.00\% | 3.00\% | 3.00\% | 3.00\% |
| General Salary Increases (includes inflation) ${ }^{4}$ | 3.75\% | 3.75\% | 3.75\% | 3.75\% | 3.75\% | 3.75\% |
| Annual COLA Plan 1: | Minimum COLA ${ }^{5}$ | Minimum COLA ${ }^{5}$ | N/A | N/A | $3.00 \%{ }^{6}$ | $3.00 \%{ }^{7}$ |
| Plan 2/3: | 3.00\% ${ }^{7}$ | $3.00 \%{ }^{7}$ | 3.00\% ${ }^{7}$ | $3.00 \%{ }^{7}$ | $3.00 \%{ }^{7}$ | $3.00 \%{ }^{7}$ |

${ }^{1}$ Annual rate, compounded quarterly except for WSPRS, which is compounded monthly. This rate is set by the director of the Department of Retirement Systems.
${ }^{2}$ Effective for contribution rates beginning July 1, 2015. The rate is $7.50 \%$ in LEOFF 2. Annual rate, compounded annually,
${ }^{3}$ Based on the CPI: Urban Wage Earners \& Clerical Workers, Seattle-Tacoma-Bremerton, WA - All Items.
${ }^{4}$ Excludes longevity, merit or step increases that usually apply to members in the early part of their careers.
${ }^{5}$ The increase was $\$ 2.12$ per month per year of service on $7 / 1 / 2014$. Payable to qualified members. The Uniform COLA was removed under C 362 L 2011.
${ }^{6}$ Equal to the CPI.
${ }^{7}$ Based on the CPI (3\% maximum per year).

We adjust the general salary assumption for TRS each year to model the salary bonus payable to members who attain national board certification. These bonuses are includable in compensation for pension purposes.

| TRS General Salary Increase |  |  |
| :---: | :---: | :---: |
| by Year |  |  |
| Year | TRS 1 | TRS 2/3 |
| $\mathbf{2 0 1 3}$ | $3.80 \%$ | $3.80 \%$ |
| $\mathbf{2 0 1 4}$ | $3.85 \%$ | $3.85 \%$ |
| $\mathbf{2 0 1 5}$ | $3.77 \%$ | $3.77 \%$ |
| $\mathbf{2 0 1 6}$ | $3.75 \%$ | $3.75 \%$ |
| $\mathbf{2 0 1 7}$ | $3.75 \%$ | $3.75 \%$ |
| $\mathbf{2 0 1 8}$ | $3.85 \%$ | $3.85 \%$ |
| $\mathbf{2 0 1 9}$ | $3.84 \%$ | $3.84 \%$ |
| $\mathbf{2 0 2 0}$ | $3.83 \%$ | $3.83 \%$ |
| $\mathbf{2 0 2 1}$ | $3.83 \%$ | $3.82 \%$ |
| $\mathbf{2 0 2 2}$ | $3.82 \%$ | $3.82 \%$ |
| $\mathbf{2 0 2 3}$ | $3.81 \%$ | $3.81 \%$ |
| $\mathbf{2 0 2 4}$ | $3.80 \%$ | $3.80 \%$ |
| $\mathbf{2 0 2 5}$ | $3.79 \%$ | $3.79 \%$ |
| $\mathbf{2 0 2 6}$ | $\mathbf{3 . 7 8 \%}$ | $3.78 \%$ |
| $\mathbf{2 0 2 7}$ | $3.77 \%$ | $3.77 \%$ |
| $\mathbf{2 0 2 8}$ | $3.77 \%$ | $3.77 \%$ |
| $\mathbf{2 0 2 9 +}$ | $3.75 \%$ | $3.75 \%$ |

## Demographic

 AssumptionsThese include rates of retirement, rates at which members become disabled, turnover rates, mortality rates, and several other demographic assumptions as disclosed later in this section.

## Changes in Methods and Assumptions Since the Last Valuation

- We changed the structure of PSERS termination benefits within our valuation soffware. We corrected the retirement age for terminated vested benefits to reflect eligibility based on PSERS service.
- We changed

| Step Salary Increases by System |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS |  | TRS |  | SERS |  | PSERS |  | LEOFF |  | WSPRS |  |
| Service | \% | Salary | \% | Salary | \% | Salary | \% | Salary | \% | Salary | \% | Salary |
| Years | Increase | Ratio | Increase | Ratio | Increase | Ratio | Increase | Ratio | Increase | Ratio | Increase | Ratio |
| 0 | 6.00\% | 1.367 | 5.10\% | 1.573 | 6.60\% | 1.382 | 6.00\% | 1.367 | 10.70\% | 1.827 | 8.50\% | 1.642 |
| 1 | 6.00\% | 1.290 | 5.10\% | 1.496 | 6.60\% | 1.297 | 6.00\% | 1.290 | 10.70\% | 1.650 | 8.50\% | 1.513 |
| 2 | 4.70\% | 1.217 | 3.90\% | 1.424 | 3.90\% | 1.217 | 4.70\% | 1.217 | 7.50\% | 1.491 | 6.00\% | 1.395 |
| 3 | 3.60\% | 1.162 | 3.90\% | 1.370 | 2.80\% | 1.171 | 3.60\% | 1.162 | 5.90\% | 1.387 | 5.00\% | 1.316 |
| 4 | 2.90\% | 1.122 | 3.50\% | 1.319 | 2.30\% | 1.139 | 2.90\% | 1.122 | 3.70\% | 1.310 | 5.00\% | 1.253 |
| 5 | 2.20\% | 1.090 | 3.00\% | 1.274 | 2.10\% | 1.113 | 2.20\% | 1.090 | 2.60\% | 1.263 | 5.00\% | 1.194 |
| 6 | 1.50\% | 1.067 | 2.70\% | 1.237 | 1.60\% | 1.090 | 1.50\% | 1.067 | 1.80\% | 1.231 | 3.50\% | 1.137 |
| 7 | 1.20\% | 1.051 | 2.70\% | 1.205 | 1.20\% | 1.073 | 1.20\% | 1.051 | 1.40\% | 1.209 | 0.60\% | 1.098 |
| 8 | 0.90\% | 1.039 | 2.60\% | 1.173 | 1.20\% | 1.061 | 0.90\% | 1.039 | 1.30\% | 1.192 | 0.60\% | 1.092 |
| 9 | 0.70\% | 1.029 | 2.40\% | 1.143 | 0.90\% | 1.048 | 0.70\% | 1.029 | 1.20\% | 1.177 | 0.60\% | 1.085 |
| 10 | 0.50\% | 1.022 | 2.20\% | 1.116 | 0.90\% | 1.039 | 0.50\% | 1.022 | 1.70\% | 1.163 | 0.60\% | 1.079 |
| 11 | 0.40\% | 1.017 | 2.00\% | 1.092 | 0.70\% | 1.029 | 0.40\% | 1.017 | 1.20\% | 1.144 | 0.60\% | 1.072 |
| 12 | 0.30\% | 1.013 | 1.80\% | 1.071 | 0.50\% | 1.022 | 0.30\% | 1.013 | 1.20\% | 1.130 | 0.40\% | 1.066 |
| 13 | 0.30\% | 1.010 | 1.50\% | 1.052 | 0.40\% | 1.017 | 0.30\% | 1.010 | 1.20\% | 1.117 | 0.40\% | 1.062 |
| 14 | 0.20\% | 1.007 | 1.20\% | 1.037 | 0.30\% | 1.013 | 0.20\% | 1.007 | 1.20\% | 1.104 | 0.40\% | 1.057 |
| 15 | 0.20\% | 1.005 | 0.90\% | 1.024 | 0.20\% | 1.010 | 0.20\% | 1.005 | 1.20\% | 1.090 | 0.40\% | 1.053 |
| 16 | 0.20\% | 1.003 | 0.50\% | 1.015 | 0.20\% | 1.008 | 0.20\% | 1.003 | 1.00\% | 1.078 | 0.40\% | 1.049 |
| 17 | 0.10\% | 1.001 | 0.20\% | 1.010 | 0.20\% | 1.006 | 0.10\% | 1.001 | 1.00\% | 1.067 | 0.40\% | 1.045 |
| 18 | 0.00\% | 1.000 | 0.10\% | 1.008 | 0.20\% | 1.004 | 0.00\% | 1.000 | 1.00\% | 1.056 | 0.40\% | 1.041 |
| 19 | 0.00\% | 1.000 | 0.10\% | 1.007 | 0.10\% | 1.002 | 0.00\% | 1.000 | 1.00\% | 1.046 | 0.40\% | 1.037 |
| 20 | 0.00\% | 1.000 | 0.10\% | 1.006 | 0.10\% | 1.001 | 0.00\% | 1.000 | 1.00\% | 1.036 | 0.40\% | 1.032 |
| 21 | 0.00\% | 1.000 | 0.10\% | 1.005 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.50\% | 1.025 | 0.40\% | 1.028 |
| 22 | 0.00\% | 1.000 | 0.10\% | 1.004 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.50\% | 1.020 | 0.40\% | 1.024 |
| 23 | 0.00\% | 1.000 | 0.10\% | 1.003 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.50\% | 1.015 | 0.40\% | 1.020 |
| 24 | 0.00\% | 1.000 | 0.10\% | 1.002 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.50\% | 1.010 | 0.40\% | 1.016 |
| 25 | 0.00\% | 1.000 | 0.10\% | 1.001 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.50\% | 1.005 | 0.40\% | 1.012 |
| 26 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.40\% | 1.008 |
| 27 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.40\% | 1.004 |
| 28 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 |
| 29 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 |
| 30+ | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | 0.00\% | 1.000 | how we value

survivor-beneficiary benefits under the Basic Minimum Cost Of Living Adjustment (COLA) for PERS 1 and TRS 1. We assume beneficiaries will receive 100 percent of the Basic Minimum COLA, regardless of the Joint and Survivor option selected by the member.

- For all systems, except LEOFF 2, we assume a 7.8 percent interest rate.
- We updated assumed administrative factors consistent with those currently in use by the Department of Retirement Systems.
- We performed an experience study of the plans for the period 2007-2012. As a result of this study, we updated demographic assumptions. For a full description of the assumption changes see the 2007-2012 Experience Study.

| Probability of Service Retirement (Hired before 5/1/2013) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TRS |  |  |  |  |  |  |  |  |  | SERS |  |  |  |
|  | Plan 1 |  |  |  | Plan 2/3 |  |  |  |  |  | Plan 2/3 |  |  |  |
|  | Service to 30 | ot equal years | Servic 30 | qual to ars | Service 30 | ss than ars | Service 30 | qual to ars | Servic than | reater <br> years | Serv than | less <br> years | rvice or 30 | ater than al to ars |
| Age | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| 45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 0.00 | 0.20 | 0.36 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 0.22 | 0.20 | 0.36 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 0.22 | 0.20 | 0.36 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55 | 0.22 | 0.20 | 0.36 | 0.30 | 0.02 | 0.02 | 0.22 | 0.19 | 0.13 | 0.12 | 0.01 | 0.02 | 0.12 | 0.12 |
| 56 | 0.22 | 0.20 | 0.36 | 0.30 | 0.02 | 0.03 | 0.22 | 0.21 | 0.15 | 0.14 | 0.02 | 0.02 | 0.12 | 0.12 |
| 57 | 0.22 | 0.20 | 0.36 | 0.30 | 0.02 | 0.04 | 0.22 | 0.23 | 0.17 | 0.16 | 0.03 | 0.02 | 0.12 | 0.12 |
| 58 | 0.22 | 0.20 | 0.39 | 0.30 | 0.02 | 0.05 | 0.28 | 0.25 | 0.19 | 0.18 | 0.04 | 0.03 | 0.12 | 0.12 |
| 59 | 0.22 | 0.26 | 0.42 | 0.30 | 0.04 | 0.06 | 0.34 | 0.27 | 0.21 | 0.22 | 0.05 | 0.04 | 0.16 | 0.25 |
| 60 | 0.22 | 0.20 | 0.42 | 0.30 | 0.06 | 0.07 | 0.41 | 0.29 | 0.23 | 0.20 | 0.06 | 0.05 | 0.12 | 0.12 |
| 61 | 0.22 | 0.23 | 0.42 | 0.40 | 0.14 | 0.15 | 0.48 | 0.41 | 0.25 | 0.22 | 0.15 | 0.13 | 0.21 | 0.20 |
| 62 | 0.35 | 0.26 | 0.56 | 0.50 | 0.22 | 0.23 | 0.55 | 0.53 | 0.36 | 0.32 | 0.24 | 0.21 | 0.30 | 0.28 |
| 63 | 0.30 | 0.22 | 0.48 | 0.46 | 0.20 | 0.21 | 0.50 | 0.49 | 0.33 | 0.30 | 0.22 | 0.20 | 0.28 | 0.26 |
| 64 | 0.25 | 0.29 | 0.40 | 0.46 | 0.55 | 0.48 | 0.55 | 0.53 | 0.55 | 0.49 | 0.56 | 0.52 | 0.57 | 0.48 |
| 65 | 0.36 | 0.36 | 0.70 | 0.55 | 0.48 | 0.40 | 0.48 | 0.40 | 0.48 | 0.40 | 0.39 | 0.36 | 0.39 | 0.36 |
| 66 | 0.36 | 0.36 | 0.70 | 0.55 | 0.41 | 0.32 | 0.41 | 0.32 | 0.41 | 0.32 | 0.22 | 0.24 | 0.22 | 0.24 |
| 67 | 0.32 | 0.28 | 0.70 | 0.55 | 0.34 | 0.24 | 0.34 | 0.24 | 0.34 | 0.24 | 0.22 | 0.23 | 0.22 | 0.23 |
| 68 | 0.28 | 0.28 | 0.70 | 0.55 | 0.27 | 0.24 | 0.27 | 0.24 | 0.27 | 0.24 | 0.22 | 0.22 | 0.22 | 0.22 |
| 69 | 0.28 | 0.28 | 0.70 | 0.55 | 0.27 | 0.42 | 0.27 | 0.42 | 0.27 | 0.42 | 0.22 | 0.21 | 0.22 | 0.21 |
| 70 | 0.22 | 0.28 | 1.00 | 0.55 | 0.27 | 0.30 | 0.27 | 0.30 | 0.27 | 0.30 | 0.22 | 0.20 | 0.22 | 0.20 |
| 71 | 0.22 | 0.28 | 1.00 | 0.55 | 0.41 | 0.30 | 0.41 | 0.30 | 0.41 | 0.30 | 0.20 | 0.19 | 0.20 | 0.19 |
| 72 | 0.22 | 0.21 | 1.00 | 1.00 | 0.55 | 0.30 | 0.55 | 0.30 | 0.55 | 0.30 | 0.18 | 0.18 | 0.18 | 0.18 |
| 73 | 0.22 | 0.21 | 1.00 | 1.00 | 0.55 | 0.30 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.16 | 0.17 |
| 74 | 0.22 | 0.21 | 1.00 | 1.00 | 0.55 | 0.30 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.16 | 0.17 |
| 75 | 0.22 | 0.21 | 1.00 | 1.00 | 0.55 | 0.30 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.16 | 0.17 |
| 76 | 0.22 | 0.21 | 1.00 | 1.00 | 0.55 | 0.30 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.16 | 0.17 |
| 77 | 0.22 | 0.21 | 1.00 | 1.00 | 0.55 | 0.30 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.16 | 0.17 |
| 78 | 0.22 | 0.21 | 1.00 | 1.00 | 0.55 | 0.30 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.16 | 0.17 |
| 79 | 0.22 | 0.21 | 1.00 | 1.00 | 0.55 | 0.30 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.16 | 0.17 |
| 80 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |


| Age | Probability of Service Retirement (Hired before 5/1/2013) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS |  |  |  |  |  | PSERS |  | LEOFF |  |  | WSPRS |
|  | Plan 1 |  | Plans 2/3 |  |  |  | Plan 2 |  | Plan 1 |  | Plan 2 | Plans 1/2 |
|  |  |  | Service less than 30 years |  | Service greater than or equal to 30 years |  | Male Female |  | Service less than 30 years | Service greater than or equal to 30 years |  |  |
|  | Male | Female | Male | Female | Male | Female |  |  | Male \& Female |  | Male \& Female | Male \& Female |
| 45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 |
| 46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 |
| 47 | 0.46 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 |
| 48 | 0.55 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 |
| 49 | 0.50 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 |
| 50 | 0.45 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.12 | 0.03 | 0.27 |
| 51 | 0.40 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.12 | 0.04 | 0.24 |
| 52 | 0.40 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.12 | 0.05 | 0.24 |
| 53 | 0.40 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.07 | 0.12 | 0.10 | 0.24 |
| 54 | 0.40 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.10 | 0.16 | 0.10 | 0.24 |
| 55 | 0.17 | 0.28 | 0.02 | 0.02 | 0.12 | 0.12 | 0.02 | 0.02 | 0.10 | 0.20 | 0.10 | 0.20 |
| 56 | 0.17 | 0.16 | 0.03 | 0.02 | 0.12 | 0.12 | 0.05 | 0.04 | 0.10 | 0.20 | 0.10 | 0.20 |
| 57 | 0.17 | 0.16 | 0.04 | 0.02 | 0.12 | 0.12 | 0.08 | 0.06 | 0.13 | 0.20 | 0.10 | 0.20 |
| 58 | 0.17 | 0.16 | 0.05 | 0.02 | 0.12 | 0.12 | 0.11 | 0.08 | 0.13 | 0.20 | 0.15 | 0.20 |
| 59 | 0.20 | 0.30 | 0.06 | 0.04 | 0.16 | 0.24 | 0.14 | 0.10 | 0.13 | 0.20 | 0.15 | 0.33 |
| 60 | 0.16 | 0.16 | 0.07 | 0.06 | 0.12 | 0.12 | 0.30 | 0.34 | 0.23 | 0.25 | 0.15 | 0.33 |
| 61 | 0.23 | 0.21 | 0.08 | 0.13 | 0.20 | 0.20 | 0.26 | 0.26 | 0.23 | 0.25 | 0.19 | 0.33 |
| 62 | 0.30 | 0.26 | 0.24 | 0.20 | 0.28 | 0.28 | 0.30 | 0.34 | 0.23 | 0.25 | 0.23 | 0.33 |
| 63 | 0.22 | 0.20 | 0.22 | 0.18 | 0.26 | 0.26 | 0.50 | 0.52 | 0.23 | 0.25 | 0.20 | 0.33 |
| 64 | 0.28 | 0.28 | 0.56 | 0.56 | 0.56 | 0.56 | 0.70 | 0.70 | 0.23 | 0.25 | 0.20 | 0.33 |
| 65 | 0.34 | 0.36 | 0.40 | 0.40 | 0.40 | 0.40 | 0.50 | 0.35 | 0.23 | 0.25 | 0.25 | 1.00 |
| 66 | 0.30 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 0.30 | 0.35 | 0.23 | 0.25 | 0.25 | 1.00 |
| 67 | 0.26 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 0.30 | 0.35 | 0.23 | 0.25 | 0.25 | 1.00 |
| 68 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 0.30 | 0.35 | 0.23 | 0.25 | 0.25 | 1.00 |
| 69 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 0.30 | 0.35 | 0.23 | 0.25 | 0.25 | 1.00 |
| 70 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 71 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 72 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 73 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 74 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 75 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 76 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 77 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 78 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 79 | 0.22 | 0.22 | 0.24 | 0.24 | 0.24 | 0.24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 80 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |


| Age | Probability of Service Retirement (Hired on or after 5/1/2013)* |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TRS |  |  |  | SERS |  | PERS |  |
|  | Plans 2/3 |  |  |  | Plans 2/3 |  | Plans 2/3 |  |
|  | Service equal to 30 years |  | Service greater than 30 years |  | Service greater than or equal to 30 years |  | Service greater than or equal to 30 years |  |
|  |  |  | Male | Female | Male | Female | Male | Female |
| 45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55 | 0.16 | 0.14 | 0.09 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 |
| 56 | 0.15 | 0.15 | 0.10 | 0.10 | 0.08 | 0.08 | 0.09 | 0.08 |
| 57 | 0.14 | 0.16 | 0.11 | 0.11 | 0.09 | 0.08 | 0.09 | 0.08 |
| 58 | 0.17 | 0.17 | 0.12 | 0.13 | 0.09 | 0.08 | 0.09 | 0.08 |
| 59 | 0.21 | 0.18 | 0.14 | 0.15 | 0.11 | 0.16 | 0.12 | 0.15 |
| 60 | 0.25 | 0.19 | 0.15 | 0.14 | 0.09 | 0.09 | 0.10 | 0.09 |
| 61 | 0.33 | 0.29 | 0.20 | 0.19 | 0.18 | 0.17 | 0.15 | 0.17 |
| 62 | 0.40 | 0.39 | 0.30 | 0.28 | 0.27 | 0.25 | 0.26 | 0.24 |
| 63 | 0.35 | 0.35 | 0.27 | 0.26 | 0.25 | 0.23 | 0.24 | 0.22 |
| 64 | 0.55 | 0.50 | 0.55 | 0.48 | 0.56 | 0.50 | 0.56 | 0.56 |
| 65 | 0.48 | 0.40 | 0.48 | 0.40 | 0.39 | 0.36 | 0.40 | 0.40 |
| 66 | 0.41 | 0.32 | 0.41 | 0.32 | 0.22 | 0.24 | 0.24 | 0.24 |
| 67 | 0.34 | 0.24 | 0.34 | 0.24 | 0.22 | 0.23 | 0.24 | 0.24 |
| 68 | 0.27 | 0.24 | 0.27 | 0.24 | 0.22 | 0.22 | 0.24 | 0.24 |
| 69 | 0.27 | 0.42 | 0.27 | 0.42 | 0.22 | 0.21 | 0.24 | 0.24 |
| 70 | 0.27 | 0.30 | 0.27 | 0.30 | 0.22 | 0.20 | 0.24 | 0.24 |
| 71 | 0.41 | 0.30 | 0.41 | 0.30 | 0.20 | 0.19 | 0.24 | 0.24 |
| 72 | 0.55 | 0.30 | 0.55 | 0.30 | 0.18 | 0.18 | 0.24 | 0.24 |
| 73 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.24 | 0.24 |
| 74 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.24 | 0.24 |
| 75 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.24 | 0.24 |
| 76 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.24 | 0.24 |
| 77 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.24 | 0.24 |
| 78 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.24 | 0.24 |
| 79 | 0.55 | 0.30 | 0.55 | 0.30 | 0.16 | 0.17 | 0.24 | 0.24 |
| 80 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

*We expect no change in retirement behavior for less than 30 years of service.

Our mortality rates include an assumption for future mortality improvements. We took two steps to build our mortality assumptions.

First, we developed the base mortality table by starting with RP-2000, published by the Society of Actuaries, and applying age offsets for each system and plan. When age offsets are negative, it means we think people of a given age are generally healthier than others their age. In other words, we expect their mortality experience will be similar to younger people. Conversely, a positive age offset means we expect mortality experience for a given age to match that of a higher age in the general population. For instance, we expect a 50 -yearold PERS male to have the same mortality rate as other 49-year-old males because we assume a negative one-year age offset.

Next, we applied mortality improvements to the RP-2000 mortality table using Scale BB. Beginning with the 2013 Actuarial Valuation Report, we use "generational" mortality instead of projecting to a given year. Under generational mortality, a member is assumed to receive additional mortality improvements in each future year, throughout their lifetime.
As an example of generational mortality, consider a healthy PERS Plan 1 male, age 50. To project the RP-2000 mortality rates to the valuation year (2013), we use the following equation.

RP-2000 rate $\times(1$-Scale BB) ^ 13
For a 50 -year-old male, this is $0.001995 \times(1$ $-0.003)^{\wedge} 13=0.001919$.

The next tables show the age offsets we used as well as the mortality rates projected to the current valuation year for each plan. Please note that this table is meant to be an example only. Under generational mortality, the mortality rate for each age will improve in each future year by the rates in the mortality improvement table.

Following these tables, the next table shows Scale BB, which was published by the Society of Actuaries.

| Mortality Projected to 2013 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS, SERS, and PSERS |  | TRS |  | LEOFF and WSPRS |  |
|  | Male | Female | Male | Female | Male | Female |
| Age | -1 | -1 | -3 | -2 | -1 | 1 |
| 20 | 0.000318 | 0.000183 | 0.000289 | 0.000181 | 0.000318 | 0.000185 |
| 21 | 0.000332 | 0.000184 | 0.000304 | 0.000183 | 0.000332 | 0.000187 |
| 22 | 0.000343 | 0.000185 | 0.000318 | 0.000184 | 0.000343 | 0.000189 |
| 23 | 0.000352 | 0.000187 | 0.000332 | 0.000185 | 0.000352 | 0.000193 |
| 24 | 0.000359 | 0.000189 | 0.000343 | 0.000187 | 0.000359 | 0.000199 |
| 25 | 0.000362 | 0.000193 | 0.000352 | 0.000189 | 0.000362 | 0.000206 |
| 26 | 0.000362 | 0.000199 | 0.000359 | 0.000193 | 0.000362 | 0.000214 |
| 27 | 0.000364 | 0.000206 | 0.000362 | 0.000199 | 0.000364 | 0.000226 |
| 28 | 0.000367 | 0.000214 | 0.000362 | 0.000206 | 0.000367 | 0.000239 |
| 29 | 0.000378 | 0.000226 | 0.000364 | 0.000214 | 0.000378 | 0.000254 |
| 30 | 0.000396 | 0.000239 | 0.000367 | 0.000226 | 0.000396 | 0.000295 |
| 31 | 0.000427 | 0.000254 | 0.000378 | 0.000239 | 0.000427 | 0.000337 |
| 32 | 0.000480 | 0.000295 | 0.000396 | 0.000254 | 0.000480 | 0.000379 |
| 33 | 0.000540 | 0.000337 | 0.000427 | 0.000295 | 0.000540 | 0.000418 |
| 34 | 0.000607 | 0.000379 | 0.000480 | 0.000337 | 0.000607 | 0.000457 |
| 35 | 0.000675 | 0.000418 | 0.000540 | 0.000379 | 0.000675 | 0.000494 |
| 36 | 0.000743 | 0.000457 | 0.000607 | 0.000418 | 0.000743 | 0.000533 |
| 37 | 0.000809 | 0.000494 | 0.000675 | 0.000457 | 0.000809 | 0.000575 |
| 38 | 0.000869 | 0.000533 | 0.000743 | 0.000494 | 0.000869 | 0.000623 |
| 39 | 0.000927 | 0.000575 | 0.000809 | 0.000533 | 0.000927 | 0.000679 |
| 40 | 0.000982 | 0.000623 | 0.000869 | 0.000575 | 0.000982 | 0.000744 |
| 41 | 0.001038 | 0.000679 | 0.000927 | 0.000623 | 0.001038 | 0.000819 |
| 42 | 0.001098 | 0.000744 | 0.000982 | 0.000679 | 0.001098 | 0.000901 |
| 43 | 0.001168 | 0.000819 | 0.001038 | 0.000744 | 0.001168 | 0.000990 |
| 44 | 0.001249 | 0.000901 | 0.001098 | 0.000819 | 0.001249 | 0.001081 |
| 45 | 0.001343 | 0.000990 | 0.001168 | 0.000901 | 0.001343 | 0.001176 |
| 46 | 0.001450 | 0.001081 | 0.001249 | 0.000990 | 0.001450 | 0.001275 |
| 47 | 0.001554 | 0.001176 | 0.001343 | 0.001081 | 0.001554 | 0.001379 |
| 48 | 0.001668 | 0.001275 | 0.001450 | 0.001176 | 0.001668 | 0.001491 |
| 49 | 0.001789 | 0.001379 | 0.001554 | 0.001275 | 0.001789 | 0.001612 |
| 50 | 0.001919 | 0.001491 | 0.001668 | 0.001379 | 0.001919 | 0.001781 |
| 51 | 0.002056 | 0.001612 | 0.001789 | 0.001491 | 0.002056 | 0.001941 |
| 52 | 0.002355 | 0.001781 | 0.001919 | 0.001612 | 0.002355 | 0.002122 |
| 53 | 0.002565 | 0.001941 | 0.002056 | 0.001781 | 0.002565 | 0.002331 |
| 54 | 0.002804 | 0.002095 | 0.002355 | 0.001916 | 0.002804 | 0.002579 |

Improvements in mortality are projected to the valuation year specified based on $100 \%$ of Scale BB.

Mortality Projected to 2013

Please see the 2007-2012 Experience Study for more details regarding the development of these rates.

4: Appendices

| Mortality Projected to 2013 <br> (Continued) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS, SERS, and PSERS |  | TRS |  | LEOFF and WSPRS |  |
|  | Male | Female | Male | Female | Male | Female |
| Offsets Age | -1 | -1 | -3 | -2 | -1 | 1 |
| 55 | 0.003074 | 0.002271 | 0.002565 | 0.002068 | 0.003074 | 0.002895 |
| 56 | 0.003485 | 0.002513 | 0.002804 | 0.002242 | 0.003485 | 0.003216 |
| 57 | 0.003987 | 0.002820 | 0.003034 | 0.002480 | 0.003987 | 0.003581 |
| 58 | 0.004397 | 0.003133 | 0.003395 | 0.002784 | 0.004397 | 0.004001 |
| 59 | 0.004876 | 0.003488 | 0.003884 | 0.003092 | 0.004876 | 0.004494 |
| 60 | 0.005426 | 0.003897 | 0.004283 | 0.003443 | 0.005426 | 0.005102 |
| 61 | 0.006078 | 0.004378 | 0.004750 | 0.003846 | 0.006078 | 0.005765 |
| 62 | 0.006825 | 0.004970 | 0.005286 | 0.004321 | 0.006825 | 0.006537 |
| 63 | 0.007684 | 0.005690 | 0.005921 | 0.004970 | 0.007684 | 0.007367 |
| 64 | 0.008671 | 0.006537 | 0.006648 | 0.005690 | 0.008671 | 0.008296 |
| 65 | 0.009642 | 0.007367 | 0.007485 | 0.006537 | 0.009642 | 0.009363 |
| 66 | 0.010745 | 0.008296 | 0.008446 | 0.007367 | 0.010745 | 0.010396 |
| 67 | 0.011996 | 0.009363 | 0.009391 | 0.008296 | 0.011996 | 0.011492 |
| 68 | 0.013208 | 0.010396 | 0.010465 | 0.009363 | 0.013208 | 0.012702 |
| 69 | 0.014683 | 0.011492 | 0.011839 | 0.010396 | 0.014683 | 0.014310 |
| 70 | 0.016270 | 0.012702 | 0.013208 | 0.011492 | 0.016270 | 0.015880 |
| 71 | 0.018245 | 0.014310 | 0.014683 | 0.012702 | 0.018245 | 0.017663 |
| 72 | 0.020187 | 0.015880 | 0.016270 | 0.014310 | 0.020187 | 0.019634 |
| 73 | 0.022415 | 0.017663 | 0.018245 | 0.015880 | 0.022415 | 0.021760 |
| 74 | 0.024967 | 0.019634 | 0.020187 | 0.017663 | 0.024967 | 0.024024 |
| 75 | 0.027853 | 0.021760 | 0.022415 | 0.019634 | 0.027853 | 0.026468 |
| 76 | 0.031085 | 0.024024 | 0.024967 | 0.021760 | 0.031085 | 0.029151 |
| 77 | 0.034647 | 0.026468 | 0.027853 | 0.024024 | 0.034647 | 0.032134 |
| 78 | 0.038539 | 0.029151 | 0.031085 | 0.026468 | 0.038539 | 0.035477 |
| 79 | 0.042825 | 0.032134 | 0.034647 | 0.029151 | 0.042825 | 0.039215 |
| 80 | 0.047594 | 0.035477 | 0.038539 | 0.032134 | 0.047594 | 0.043404 |
| 81 | 0.052886 | 0.039215 | 0.042825 | 0.035477 | 0.052886 | 0.048117 |
| 82 | 0.059190 | 0.043404 | 0.047594 | 0.039215 | 0.059190 | 0.053427 |
| 83 | 0.066129 | 0.048117 | 0.052886 | 0.043404 | 0.066129 | 0.059420 |
| 84 | 0.073714 | 0.053427 | 0.059190 | 0.048117 | 0.073714 | 0.066197 |
| 85 | 0.081980 | 0.059420 | 0.066129 | 0.053427 | 0.081980 | 0.073830 |
| 86 | 0.091000 | 0.066197 | 0.073714 | 0.059420 | 0.091000 | 0.082344 |
| 87 | 0.102232 | 0.073830 | 0.083069 | 0.066197 | 0.102232 | 0.091717 |
| 88 | 0.114762 | 0.082344 | 0.093432 | 0.073830 | 0.114762 | 0.101847 |
| 89 | 0.128717 | 0.091717 | 0.104961 | 0.082344 | 0.128717 | 0.112555 |


| Mortality Projected to 2013 (Continued) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS, SER | and PSERS | TRS |  | LEOFF and WSPRS |  |
|  | Male | Female | Male | Female | Male | Female |
| Offsets Age | -1 | -1 | -3 | -2 | -1 | 1 |
| 90 | 0.144131 | 0.103195 | 0.117822 | 0.092932 | 0.144131 | 0.125237 |
| 91 | 0.160944 | 0.115554 | 0.132146 | 0.104560 | 0.160944 | 0.138313 |
| 92 | 0.177617 | 0.128569 | 0.147966 | 0.117080 | 0.177617 | 0.151534 |
| 93 | 0.195128 | 0.141990 | 0.165223 | 0.130266 | 0.195128 | 0.164674 |
| 94 | 0.213269 | 0.155559 | 0.182334 | 0.143862 | 0.213269 | 0.177533 |
| 95 | 0.231828 | 0.169043 | 0.200305 | 0.157607 | 0.231828 | 0.189924 |
| 96 | 0.250616 | 0.182238 | 0.218921 | 0.171267 | 0.250616 | 0.201662 |
| 97 | 0.269491 | 0.194952 | 0.237965 | 0.184634 | 0.269491 | 0.212577 |
| 98 | 0.284628 | 0.204312 | 0.253910 | 0.194952 | 0.284628 | 0.219639 |
| 99 | 0.303218 | 0.215369 | 0.273030 | 0.206995 | 0.303218 | 0.228371 |
| 100 | 0.317558 | 0.222524 | 0.288366 | 0.215369 | 0.317558 | 0.235455 |
| 101 | 0.335704 | 0.231366 | 0.307196 | 0.225443 | 0.335704 | 0.247960 |
| 102 | 0.349415 | 0.238544 | 0.321724 | 0.231366 | 0.349415 | 0.259209 |
| 103 | 0.366882 | 0.251209 | 0.340104 | 0.241670 | 0.366882 | 0.275449 |
| 104 | 0.378090 | 0.262606 | 0.353994 | 0.251209 | 0.378090 | 0.289328 |
| 105 | 0.392003 | 0.279055 | 0.371685 | 0.266044 | 0.392003 | 0.307811 |
| 106 | 0.397886 | 0.293116 | 0.383040 | 0.279055 | 0.397886 | 0.322725 |
| 107 | 0.400000 | 0.307811 | 0.392003 | 0.293116 | 0.400000 | 0.337441 |
| 108 | 0.400000 | 0.322725 | 0.397886 | 0.307811 | 0.400000 | 0.351544 |
| 109 | 0.400000 | 0.337441 | 0.400000 | 0.322725 | 0.400000 | 0.364617 |
| 110 | 0.400000 | 0.351544 | 0.400000 | 0.337441 | 0.400000 | 0.376246 |
| 111 | 0.400000 | 0.364617 | 0.400000 | 0.351544 | 0.400000 | 0.386015 |
| 112 | 0.400000 | 0.376246 | 0.400000 | 0.364617 | 0.400000 | 0.393507 |
| 113 | 0.400000 | 0.386015 | 0.400000 | 0.376246 | 0.400000 | 0.398308 |
| 114 | 0.400000 | 0.393507 | 0.400000 | 0.386015 | 0.400000 | 0.400000 |
| 115 | 0.400000 | 0.398308 | 0.400000 | 0.393507 | 0.400000 | 0.400000 |
| 116 | 0.400000 | 0.400000 | 0.400000 | 0.398308 | 0.400000 | 0.400000 |
| 117 | 0.400000 | 0.400000 | 0.400000 | 0.400000 | 0.400000 | 0.400000 |
| 118 | 0.400000 | 0.400000 | 0.400000 | 0.400000 | 0.400000 | 0.400000 |
| 119 | 0.400000 | 0.400000 | 0.400000 | 0.400000 | 0.400000 | 1.000000 |
| 120 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

Improvements in mortality are projected to the valuation year specified based on 100\% of Scale BB.

Improvements in mortality are projected to the valuation year specified based on 100\%
of Scale BB.

| 100\% Scale BB Mortality Improvement |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Male | Female | Age | Male | Female | Age | Male | Female |
| 20 | 0.0030 | 0.0030 | 50 | 0.0030 | 0.0030 | 80 | 0.0150 | 0.0120 |
| 21 | 0.0030 | 0.0030 | 51 | 0.0030 | 0.0030 | 81 | 0.0150 | 0.0120 |
| 22 | 0.0030 | 0.0030 | 52 | 0.0030 | 0.0030 | 82 | 0.0150 | 0.0120 |
| 23 | 0.0030 | 0.0030 | 53 | 0.0030 | 0.0030 | 83 | 0.0150 | 0.0120 |
| 24 | 0.0030 | 0.0030 | 54 | 0.0030 | 0.0040 | 84 | 0.0150 | 0.0120 |
| 25 | 0.0030 | 0.0030 | 55 | 0.0030 | 0.0050 | 85 | 0.0150 | 0.0120 |
| 26 | 0.0030 | 0.0030 | 56 | 0.0030 | 0.0060 | 86 | 0.0150 | 0.0120 |
| 27 | 0.0030 | 0.0030 | 57 | 0.0040 | 0.0070 | 87 | 0.0140 | 0.0120 |
| 28 | 0.0030 | 0.0030 | 58 | 0.0050 | 0.0080 | 88 | 0.0130 | 0.0120 |
| 29 | 0.0030 | 0.0030 | 59 | 0.0060 | 0.0090 | 89 | 0.0120 | 0.0120 |
| 30 | 0.0030 | 0.0030 | 60 | 0.0070 | 0.0100 | 90 | 0.0110 | 0.0110 |
| 31 | 0.0030 | 0.0030 | 61 | 0.0080 | 0.0110 | 91 | 0.0100 | 0.0100 |
| 32 | 0.0030 | 0.0030 | 62 | 0.0090 | 0.0120 | 92 | 0.0090 | 0.0090 |
| 33 | 0.0030 | 0.0030 | 63 | 0.0100 | 0.0120 | 93 | 0.0080 | 0.0080 |
| 34 | 0.0030 | 0.0030 | 64 | 0.0110 | 0.0120 | 94 | 0.0070 | 0.0070 |
| 35 | 0.0030 | 0.0030 | 65 | 0.0120 | 0.0120 | 95 | 0.0060 | 0.0060 |
| 36 | 0.0030 | 0.0030 | 66 | 0.0130 | 0.0120 | 96 | 0.0050 | 0.0050 |
| 37 | 0.0030 | 0.0030 | 67 | 0.0140 | 0.0120 | 97 | 0.0040 | 0.0040 |
| 38 | 0.0030 | 0.0030 | 68 | 0.0150 | 0.0120 | 98 | 0.0040 | 0.0040 |
| 39 | 0.0030 | 0.0030 | 69 | 0.0150 | 0.0120 | 99 | 0.0030 | 0.0030 |
| 40 | 0.0030 | 0.0030 | 70 | 0.0150 | 0.0120 | 100 | 0.0030 | 0.0030 |
| 41 | 0.0030 | 0.0030 | 71 | 0.0150 | 0.0120 | 101 | 0.0020 | 0.0020 |
| 42 | 0.0030 | 0.0030 | 72 | 0.0150 | 0.0120 | 102 | 0.0020 | 0.0020 |
| 43 | 0.0030 | 0.0030 | 73 | 0.0150 | 0.0120 | 103 | 0.0010 | 0.0010 |
| 44 | 0.0030 | 0.0030 | 74 | 0.0150 | 0.0120 | 104 | 0.0010 | 0.0010 |
| 45 | 0.0030 | 0.0030 | 75 | 0.0150 | 0.0120 | 105 | 0.0000 | 0.0000 |
| 46 | 0.0030 | 0.0030 | 76 | 0.0150 | 0.0120 | 106 | 0.0000 | 0.0000 |
| 47 | 0.0030 | 0.0030 | 77 | 0.0150 | 0.0120 | 107 | 0.0000 | 0.0000 |
| 48 | 0.0030 | 0.0030 | 78 | 0.0150 | 0.0120 | 108 | 0.0000 | 0.0000 |
| 49 | 0.0030 | 0.0030 | 79 | 0.0150 | 0.0120 | 109 | 0.0000 | 0.0000 |
|  |  |  |  |  |  | 110 | 0.0000 | 0.0000 |

Disabled Mortality Projected to 2013

| Offsets Age | All Systems Except LEOFF 1 |  | LEOFF 1* |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Male | Female |
|  | 0 | 0 | 2 | 2 |
| 20 | 0.021706 | 0.007165 | 0.000352 | 0.000187 |
| 21 | 0.021706 | 0.007165 | 0.000359 | 0.000189 |
| 22 | 0.021706 | 0.007165 | 0.000362 | 0.000193 |
| 23 | 0.021706 | 0.007165 | 0.000362 | 0.000199 |
| 24 | 0.021706 | 0.007165 | 0.000364 | 0.000206 |
| 25 | 0.021706 | 0.007165 | 0.000367 | 0.000214 |
| 26 | 0.021706 | 0.007165 | 0.000378 | 0.000226 |
| 27 | 0.021706 | 0.007165 | 0.000396 | 0.000239 |
| 28 | 0.021706 | 0.007165 | 0.000427 | 0.000254 |
| 29 | 0.021706 | 0.007165 | 0.000480 | 0.000295 |
| 30 | 0.021706 | 0.007165 | 0.000540 | 0.000337 |
| 31 | 0.021706 | 0.007165 | 0.000607 | 0.000379 |
| 32 | 0.021706 | 0.007165 | 0.000675 | 0.000418 |
| 33 | 0.021706 | 0.007165 | 0.000743 | 0.000457 |
| 34 | 0.021706 | 0.007165 | 0.000809 | 0.000494 |
| 35 | 0.021706 | 0.007165 | 0.000869 | 0.000533 |
| 36 | 0.021706 | 0.007165 | 0.000927 | 0.000575 |
| 37 | 0.021706 | 0.007165 | 0.000982 | 0.000623 |
| 38 | 0.021706 | 0.007165 | 0.001038 | 0.000679 |
| 39 | 0.021706 | 0.007165 | 0.001098 | 0.000744 |
| 40 | 0.021706 | 0.007165 | 0.001168 | 0.000819 |
| 41 | 0.021706 | 0.007165 | 0.001249 | 0.000901 |
| 42 | 0.021706 | 0.007165 | 0.001343 | 0.000990 |
| 43 | 0.021706 | 0.007165 | 0.001450 | 0.001081 |
| 44 | 0.021706 | 0.007165 | 0.001554 | 0.001176 |
| 45 | 0.021706 | 0.007165 | 0.001668 | 0.001275 |
| 46 | 0.022934 | 0.007871 | 0.001789 | 0.001379 |
| 47 | 0.024162 | 0.008616 | 0.001919 | 0.001491 |
| 48 | 0.025393 | 0.009401 | 0.002056 | 0.001612 |
| 49 | 0.026626 | 0.010227 | 0.002355 | 0.001781 |
| 50 | 0.027865 | 0.011093 | 0.002565 | 0.001941 |
| 51 | 0.029109 | 0.011999 | 0.002804 | 0.002122 |
| 52 | 0.030354 | 0.012941 | 0.003074 | 0.002331 |
| 53 | 0.031600 | 0.013911 | 0.003485 | 0.002613 |
| 54 | 0.032844 | 0.014710 | 0.004039 | 0.002933 |

Improvements in mortality are projected to the valuation year specified based on $100 \%$ of Scale BB.
*LEOFF 1 uses RP-2000 Healthy mortality table as its base.

|  | Disabled | rtality Proj <br> (Continued) | d to 2013 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | All Systems | ept LEOFF | LEO | F 1* |
|  | Male | Female | Male | Female |
| Offsets Age | 0 | 0 | 2 | 2 |
| 55 | 0.034084 | 0.015500 | 0.004513 | 0.003259 |
| 56 | 0.035325 | 0.016274 | 0.005071 | 0.003628 |
| 57 | 0.036095 | 0.017026 | 0.005643 | 0.004053 |
| 58 | 0.036853 | 0.017756 | 0.006321 | 0.004554 |
| 59 | 0.037608 | 0.018465 | 0.007098 | 0.005169 |
| 60 | 0.038373 | 0.019164 | 0.007993 | 0.005842 |
| 61 | 0.039163 | 0.019864 | 0.009019 | 0.006624 |
| 62 | 0.039993 | 0.020582 | 0.010029 | 0.007367 |
| 63 | 0.040878 | 0.021619 | 0.011177 | 0.008296 |
| 64 | 0.041837 | 0.022736 | 0.012479 | 0.009363 |
| 65 | 0.042886 | 0.023955 | 0.013740 | 0.010396 |
| 66 | 0.044046 | 0.025296 | 0.015076 | 0.011492 |
| 67 | 0.045331 | 0.026775 | 0.016486 | 0.012702 |
| 68 | 0.046758 | 0.028407 | 0.018245 | 0.014310 |
| 69 | 0.048979 | 0.030203 | 0.020187 | 0.015880 |
| 70 | 0.051419 | 0.032169 | 0.022415 | 0.017663 |
| 71 | 0.054096 | 0.034310 | 0.024967 | 0.019634 |
| 72 | 0.057025 | 0.036627 | 0.027853 | 0.021760 |
| 73 | 0.060218 | 0.039121 | 0.031085 | 0.024024 |
| 74 | 0.063685 | 0.041793 | 0.034647 | 0.026468 |
| 75 | 0.067428 | 0.044644 | 0.038539 | 0.029151 |
| 76 | 0.071441 | 0.047676 | 0.042825 | 0.032134 |
| 77 | 0.075711 | 0.050896 | 0.047594 | 0.035477 |
| 78 | 0.080223 | 0.054315 | 0.052886 | 0.039215 |
| 79 | 0.084949 | 0.057946 | 0.059190 | 0.043404 |
| 80 | 0.089862 | 0.061809 | 0.066129 | 0.048117 |
| 81 | 0.094933 | 0.065931 | 0.073714 | 0.053427 |
| 82 | 0.100137 | 0.070344 | 0.081980 | 0.059420 |
| 83 | 0.105449 | 0.075080 | 0.091000 | 0.066197 |
| 84 | 0.110855 | 0.080171 | 0.100892 | 0.073830 |
| 85 | 0.116344 | 0.085649 | 0.111776 | 0.082344 |
| 86 | 0.121907 | 0.091543 | 0.123728 | 0.091717 |
| 87 | 0.129238 | 0.097879 | 0.138550 | 0.101847 |
| 88 | 0.136816 | 0.104676 | 0.154718 | 0.112555 |
| 89 | 0.144652 | 0.111949 | 0.170753 | 0.123601 |


|  | Disabled | tality Proje <br> (Continued) | ed to 2013 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | All Systems | pt LEOFF | LE | 1* |
|  | Male | Female | Male | Female |
| Offsets Age | 0 | 0 | 2 | 2 |
| 90 | 0.158844 | 0.121292 | 0.187595 | 0.136508 |
| 91 | 0.175301 | 0.131363 | 0.205043 | 0.149559 |
| 92 | 0.192587 | 0.142191 | 0.222895 | 0.162529 |
| 93 | 0.210494 | 0.153534 | 0.240969 | 0.175223 |
| 94 | 0.228814 | 0.166845 | 0.259127 | 0.187455 |
| 95 | 0.247362 | 0.179872 | 0.277287 | 0.199043 |
| 96 | 0.265995 | 0.192423 | 0.295405 | 0.209819 |
| 97 | 0.284628 | 0.204312 | 0.313442 | 0.219639 |
| 98 | 0.299288 | 0.212577 | 0.327063 | 0.225411 |
| 99 | 0.317558 | 0.222524 | 0.344891 | 0.235455 |
| 100 | 0.331358 | 0.228371 | 0.357447 | 0.244749 |
| 101 | 0.349415 | 0.238544 | 0.373200 | 0.259209 |
| 102 | 0.362136 | 0.247960 | 0.381932 | 0.271886 |
| 103 | 0.378090 | 0.262606 | 0.392744 | 0.289328 |
| 104 | 0.386937 | 0.275449 | 0.394831 | 0.303833 |
| 105 | 0.397886 | 0.293116 | 0.400000 | 0.322725 |
| 106 | 0.400000 | 0.307811 | 0.400000 | 0.337441 |
| 107 | 0.400000 | 0.322725 | 0.400000 | 0.351544 |
| 108 | 0.400000 | 0.337441 | 0.400000 | 0.364617 |
| 109 | 0.400000 | 0.351544 | 0.400000 | 0.376246 |
| 110 | 0.400000 | 0.364617 | 0.400000 | 0.386015 |
| 111 | 0.400000 | 0.376246 | 0.400000 | 0.393507 |
| 112 | 0.400000 | 0.386015 | 0.400000 | 0.398308 |
| 113 | 0.400000 | 0.393507 | 0.400000 | 0.400000 |
| 114 | 0.400000 | 0.398308 | 0.400000 | 0.400000 |
| 115 | 0.400000 | 0.400000 | 0.400000 | 0.400000 |
| 116 | 0.400000 | 0.400000 | 0.400000 | 0.400000 |
| 117 | 0.400000 | 0.400000 | 0.400000 | 0.400000 |
| 118 | 0.400000 | 0.400000 | 1.000000 | 1.000000 |
| 119 | 0.400000 | 0.400000 | 1.000000 | 1.000000 |
| 120 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

Improvements in mortality are projected to the valuation year
specified based on 100\% of Scale BB.
*LEOFF 1 uses RP-2000 Healthy mortality table as its base.
Improvements in mortality are projected to the valuation year
specified based on $100 \%$ of Scale BB.
*LEOFF 1 uses RP-2000 Healthy mortality table as its base.

| Age | Probability of Disablement |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS* |  |  |  | TRS |  |  |  |
|  | Plan 1 |  | Plan 2/3 |  | Plan 1 |  | Plan 2/3 |  |
|  | Male | Female | Male | Female | Male | Female | Male | Female |
| 20 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 21 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 22 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 23 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 24 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0001 | 0.0001 | 0.0000 | 0.0000 |
| 25 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0001 | 0.0001 | 0.0000 | 0.0000 |
| 26 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0001 | 0.0001 | 0.0000 | 0.0000 |
| 27 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0001 | 0.0001 | 0.0000 | 0.0000 |
| 28 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0001 | 0.0001 | 0.0000 | 0.0000 |
| 29 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0002 | 0.0002 | 0.0000 | 0.0000 |
| 30 | 0.0000 | 0.0000 | 0.0001 | 0.0001 | 0.0002 | 0.0002 | 0.0000 | 0.0000 |
| 31 | 0.0000 | 0.0000 | 0.0001 | 0.0001 | 0.0002 | 0.0002 | 0.0001 | 0.0000 |
| 32 | 0.0000 | 0.0000 | 0.0001 | 0.0001 | 0.0002 | 0.0002 | 0.0001 | 0.0001 |
| 33 | 0.0000 | 0.0000 | 0.0001 | 0.0001 | 0.0003 | 0.0003 | 0.0001 | 0.0001 |
| 34 | 0.0000 | 0.0000 | 0.0001 | 0.0002 | 0.0003 | 0.0003 | 0.0001 | 0.0001 |
| 35 | 0.0003 | 0.0003 | 0.0002 | 0.0002 | 0.0003 | 0.0003 | 0.0001 | 0.0001 |
| 36 | 0.0004 | 0.0004 | 0.0002 | 0.0002 | 0.0003 | 0.0003 | 0.0001 | 0.0001 |
| 37 | 0.0004 | 0.0004 | 0.0002 | 0.0003 | 0.0004 | 0.0004 | 0.0001 | 0.0001 |
| 38 | 0.0005 | 0.0005 | 0.0002 | 0.0003 | 0.0004 | 0.0004 | 0.0001 | 0.0001 |
| 39 | 0.0006 | 0.0006 | 0.0002 | 0.0003 | 0.0004 | 0.0004 | 0.0001 | 0.0001 |
| 40 | 0.0008 | 0.0007 | 0.0002 | 0.0003 | 0.0004 | 0.0004 | 0.0001 | 0.0001 |
| 41 | 0.0009 | 0.0008 | 0.0003 | 0.0003 | 0.0005 | 0.0005 | 0.0001 | 0.0001 |
| 42 | 0.0010 | 0.0013 | 0.0003 | 0.0003 | 0.0006 | 0.0006 | 0.0002 | 0.0001 |
| 43 | 0.0011 | 0.0013 | 0.0003 | 0.0003 | 0.0007 | 0.0007 | 0.0002 | 0.0001 |
| 44 | 0.0013 | 0.0014 | 0.0004 | 0.0004 | 0.0008 | 0.0008 | 0.0002 | 0.0002 |
| 45 | 0.0015 | 0.0014 | 0.0005 | 0.0005 | 0.0009 | 0.0010 | 0.0002 | 0.0002 |
| 46 | 0.0016 | 0.0015 | 0.0005 | 0.0005 | 0.0011 | 0.0011 | 0.0003 | 0.0002 |
| 47 | 0.0018 | 0.0015 | 0.0006 | 0.0006 | 0.0012 | 0.0012 | 0.0003 | 0.0003 |
| 48 | 0.0021 | 0.0020 | 0.0007 | 0.0007 | 0.0013 | 0.0013 | 0.0003 | 0.0003 |
| 49 | 0.0023 | 0.0025 | 0.0008 | 0.0009 | 0.0015 | 0.0015 | 0.0004 | 0.0003 |

Rates have been rounded for display purposes.
*10\% of all PERS Plan 1 disabilities are assumed to be duty related.

Probability of Disablement
(Continued)

| Age | (Continued) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Plan 1 |  | Plan 2/3 |  | Plan 1 |  | Plan 2/3 |  |
|  | Male | Female | Male | Female | Male | Female | Male | Female |
| 50 | 0.0025 | 0.0030 | 0.0009 | 0.0010 | 0.0016 | 0.0017 | 0.0004 | 0.0003 |
| 51 | 0.0028 | 0.0035 | 0.0010 | 0.0011 | 0.0019 | 0.0019 | 0.0005 | 0.0004 |
| 52 | 0.0030 | 0.0040 | 0.0011 | 0.0013 | 0.0022 | 0.0022 | 0.0006 | 0.0005 |
| 53 | 0.0048 | 0.0048 | 0.0016 | 0.0018 | 0.0025 | 0.0025 | 0.0006 | 0.0005 |
| 54 | 0.0065 | 0.0056 | 0.0021 | 0.0023 | 0.0029 | 0.0029 | 0.0008 | 0.0006 |
| 55 | 0.0082 | 0.0064 | 0.0026 | 0.0028 | 0.0033 | 0.0034 | 0.0011 | 0.0008 |
| 56 | 0.0100 | 0.0072 | 0.0034 | 0.0033 | 0.0036 | 0.0036 | 0.0013 | 0.0009 |
| 57 | 0.0117 | 0.0080 | 0.0042 | 0.0038 | 0.0038 | 0.0039 | 0.0015 | 0.0011 |
| 58 | 0.0117 | 0.0080 | 0.0052 | 0.0051 | 0.0041 | 0.0042 | 0.0018 | 0.0013 |
| 59 | 0.0096 | 0.0054 | 0.0064 | 0.0064 | 0.0044 | 0.0044 | 0.0021 | 0.0016 |
| 60 | 0.0075 | 0.0035 | 0.0079 | 0.0077 | 0.0047 | 0.0048 | 0.0025 | 0.0019 |
| 61 | 0.0059 | 0.0022 | 0.0097 | 0.0090 | 0.0052 | 0.0053 | 0.0029 | 0.0023 |
| 62 | 0.0046 | 0.0014 | 0.0120 | 0.0103 | 0.0058 | 0.0059 | 0.0034 | 0.0027 |
| 63 | 0.0036 | 0.0009 | 0.0102 | 0.0092 | 0.0065 | 0.0066 | 0.0041 | 0.0032 |
| 64 | 0.0028 | 0.0006 | 0.0083 | 0.0069 | 0.0072 | 0.0073 | 0.0048 | 0.0039 |
| 65 | 0.0022 | 0.0004 | 0.0061 | 0.0053 | 0.0056 | 0.0057 | 0.0024 | 0.0016 |
| 66 | 0.0017 | 0.0002 | 0.0045 | 0.0040 | 0.0043 | 0.0043 | 0.0016 | 0.0011 |
| 67 | 0.0013 | 0.0002 | 0.0034 | 0.0030 | 0.0033 | 0.0033 | 0.0011 | 0.0008 |
| 68 | 0.0011 | 0.0001 | 0.0025 | 0.0023 | 0.0025 | 0.0025 | 0.0007 | 0.0006 |
| 69 | 0.0008 | 0.0001 | 0.0018 | 0.0017 | 0.0019 | 0.0019 | 0.0005 | 0.0004 |
| 70 | 0.0006 | 0.0000 | 0.0014 | 0.0013 | 0.0015 | 0.0015 | 0.0003 | 0.0003 |
| 71 | 0.0005 | 0.0000 | 0.0010 | 0.0010 | 0.0011 | 0.0011 | 0.0002 | 0.0002 |
| 72 | 0.0004 | 0.0000 | 0.0007 | 0.0008 | 0.0009 | 0.0009 | 0.0002 | 0.0001 |
| 73 | 0.0003 | 0.0000 | 0.0005 | 0.0006 | 0.0007 | 0.0007 | 0.0001 | 0.0001 |
| 74 | 0.0002 | 0.0000 | 0.0004 | 0.0004 | 0.0005 | 0.0005 | 0.0001 | 0.0001 |
| 75 | 0.0002 | 0.0000 | 0.0003 | 0.0003 | 0.0004 | 0.0004 | 0.0000 | 0.0001 |
| 76 | 0.0001 | 0.0000 | 0.0002 | 0.0002 | 0.0003 | 0.0003 | 0.0000 | 0.0000 |
| 77 | 0.0001 | 0.0000 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0000 | 0.0000 |
| 78 | 0.0001 | 0.0000 | 0.0001 | 0.0001 | 0.0002 | 0.0002 | 0.0000 | 0.0000 |
| 79 | 0.0001 | 0.0000 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0000 | 0.0000 |
| 80 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Rates have been rounded for display purposes.
*10\% of all PERS Plan 1 disabilities are assumed to be duty related.

| Age | Probability of Disablement |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SERS <br> Plan 2/3 |  | PSERS <br> Plan 2 |  |  |  | LEOFF* |  | WSPRS <br> 1/2 |
|  |  |  | Plan 1 | Plan 2 |  |
|  |  |  |  |  |  |  | Service less than 10 years |  |  | Service greater than or equal to 10 years |  |  |  |
|  | Male | Female | Male | Female | Male | Female | Both | Both | Both |
| 20 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0001 | 0.0001 |
| 21 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0001 | 0.0001 |
| 22 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0001 | 0.0001 |
| 23 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0001 | 0.0001 |
| 24 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0002 | 0.0001 |
| 25 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0001 | 0.0000 | 0.0010 | 0.0002 | 0.0001 |
| 26 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0001 | 0.0000 | 0.0024 | 0.0002 | 0.0001 |
| 27 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0001 | 0.0000 | 0.0038 | 0.0003 | 0.0001 |
| 28 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0001 | 0.0000 | 0.0052 | 0.0003 | 0.0001 |
| 29 | 0.0000 | 0.0000 | 0.0001 | 0.0000 | 0.0001 | 0.0000 | 0.0066 | 0.0004 | 0.0002 |
| 30 | 0.0000 | 0.0000 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0080 | 0.0005 | 0.0002 |
| 31 | 0.0000 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0094 | 0.0005 | 0.0002 |
| 32 | 0.0000 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0107 | 0.0006 | 0.0002 |
| 33 | 0.0000 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0121 | 0.0006 | 0.0002 |
| 34 | 0.0001 | 0.0001 | 0.0001 | 0.0002 | 0.0001 | 0.0002 | 0.0135 | 0.0007 | 0.0003 |
| 35 | 0.0001 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0149 | 0.0008 | 0.0003 |
| 36 | 0.0001 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0163 | 0.0009 | 0.0003 |
| 37 | 0.0001 | 0.0002 | 0.0002 | 0.0003 | 0.0002 | 0.0003 | 0.0190 | 0.0011 | 0.0004 |
| 38 | 0.0002 | 0.0002 | 0.0002 | 0.0003 | 0.0002 | 0.0003 | 0.0205 | 0.0012 | 0.0004 |
| 39 | 0.0002 | 0.0002 | 0.0002 | 0.0003 | 0.0003 | 0.0003 | 0.0220 | 0.0013 | 0.0005 |
| 40 | 0.0003 | 0.0002 | 0.0002 | 0.0003 | 0.0003 | 0.0003 | 0.0235 | 0.0014 | 0.0006 |
| 41 | 0.0003 | 0.0001 | 0.0003 | 0.0003 | 0.0003 | 0.0004 | 0.0249 | 0.0014 | 0.0006 |
| 42 | 0.0003 | 0.0001 | 0.0003 | 0.0003 | 0.0004 | 0.0004 | 0.0264 | 0.0015 | 0.0007 |
| 43 | 0.0004 | 0.0001 | 0.0003 | 0.0003 | 0.0004 | 0.0004 | 0.0279 | 0.0016 | 0.0008 |
| 44 | 0.0005 | 0.0002 | 0.0004 | 0.0004 | 0.0005 | 0.0005 | 0.0360 | 0.0017 | 0.0009 |
| 45 | 0.0005 | 0.0002 | 0.0005 | 0.0005 | 0.0006 | 0.0006 | 0.0400 | 0.0018 | 0.0010 |
| 46 | 0.0006 | 0.0003 | 0.0005 | 0.0005 | 0.0007 | 0.0007 | 0.0468 | 0.0020 | 0.0011 |
| 47 | 0.0007 | 0.0003 | 0.0006 | 0.0006 | 0.0008 | 0.0008 | 0.0532 | 0.0023 | 0.0013 |
| 48 | 0.0009 | 0.0004 | 0.0007 | 0.0007 | 0.0009 | 0.0009 | 0.0592 | 0.0026 | 0.0014 |
| 49 | 0.0010 | 0.0005 | 0.0008 | 0.0009 | 0.0010 | 0.0011 | 0.0648 | 0.0029 | 0.0016 | Rates have been rounded for display purposes.

*LEOFF and WSPRS disability retirements are assumed to continue after service retirement eligibility, except for LEOFF 1 members with more than 30 years of service.

| Age | Probability of Disablement <br> (Continued) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { SERS } \\ & \text { Plan } 2 / 3 \end{aligned}$ |  | PSERS Plan 2 |  |  |  | Plan 1 | Plan 2 | WSPRS* <br> 1/2 |
|  |  |  | Service less than 10 years |  | Service greater than or equal to 10 years |  |  |  |  |
|  | Male | Female | Male | Female | Male | Female | Both | Both | Both |
| 50 | 0.0012 | 0.0006 | 0.0009 | 0.0010 | 0.0012 | 0.0013 | 0.0700 | 0.0032 | 0.0018 |
| 51 | 0.0014 | 0.0008 | 0.0010 | 0.0011 | 0.0013 | 0.0015 | 0.0748 | 0.0036 | 0.0020 |
| 52 | 0.0017 | 0.0009 | 0.0011 | 0.0013 | 0.0015 | 0.0016 | 0.0792 | 0.0040 | 0.0023 |
| 53 | 0.0020 | 0.0011 | 0.0016 | 0.0018 | 0.0021 | 0.0023 | 0.0832 | 0.0045 | 0.0026 |
| 54 | 0.0024 | 0.0014 | 0.0021 | 0.0023 | 0.0028 | 0.0029 | 0.0868 | 0.0050 | 0.0029 |
| 55 | 0.0028 | 0.0017 | 0.0026 | 0.0028 | 0.0034 | 0.0036 | 0.0900 | 0.0055 | 0.0032 |
| 56 | 0.0033 | 0.0021 | 0.0034 | 0.0033 | 0.0044 | 0.0043 | 0.0928 | 0.0062 | 0.0023 |
| 57 | 0.0039 | 0.0027 | 0.0042 | 0.0038 | 0.0055 | 0.0049 | 0.0952 | 0.0069 | 0.0016 |
| 58 | 0.0046 | 0.0033 | 0.0052 | 0.0051 | 0.0068 | 0.0067 | 0.0972 | 0.0076 | 0.0011 |
| 59 | 0.0054 | 0.0040 | 0.0064 | 0.0064 | 0.0084 | 0.0084 | 0.0988 | 0.0085 | 0.0008 |
| 60 | 0.0064 | 0.0050 | 0.0079 | 0.0077 | 0.0000 | 0.0000 | 0.1000 | 0.0095 | 0.0006 |
| 61 | 0.0076 | 0.0061 | 0.0097 | 0.0090 | 0.0000 | 0.0000 | 0.1008 | 0.0105 | 0.0004 |
| 62 | 0.0089 | 0.0067 | 0.0120 | 0.0103 | 0.0000 | 0.0000 | 0.1012 | 0.0117 | 0.0003 |
| 63 | 0.0110 | 0.0057 | 0.0102 | 0.0092 | 0.0000 | 0.0000 | 0.1012 | 0.0131 | 0.0002 |
| 64 | 0.0081 | 0.0049 | 0.0083 | 0.0069 | 0.0000 | 0.0000 | 0.1008 | 0.0145 | 0.0001 |
| 65 | 0.0059 | 0.0041 | 0.0061 | 0.0053 | 0.0000 | 0.0000 | 0.1000 | 0.0162 | 0.0000 |
| 66 | 0.0044 | 0.0035 | 0.0045 | 0.0040 | 0.0000 | 0.0000 | 0.0756 | 0.0026 | 0.0000 |
| 67 | 0.0032 | 0.0030 | 0.0034 | 0.0030 | 0.0000 | 0.0000 | 0.0544 | 0.0004 | 0.0000 |
| 68 | 0.0024 | 0.0025 | 0.0025 | 0.0023 | 0.0000 | 0.0000 | 0.0364 | 0.0001 | 0.0000 |
| 69 | 0.0017 | 0.0021 | 0.0018 | 0.0017 | 0.0000 | 0.0000 | 0.0216 | 0.0000 | 0.0000 |
| 70 | 0.0013 | 0.0018 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 71 | 0.0009 | 0.0015 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 72 | 0.0007 | 0.0013 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 73 | 0.0005 | 0.0011 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 74 | 0.0004 | 0.0009 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 75 | 0.0003 | 0.0008 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 76 | 0.0002 | 0.0007 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 77 | 0.0001 | 0.0006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 78 | 0.0001 | 0.0005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 79 | 0.0001 | 0.0004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 80 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | Rates have been rounded for display purposes.

*LEOFF and WSPRS disability retirements are assumed to continue after service retirement eligibility, except for LEOFF 1 members with more than 30 years of service.

4: Appendices

| Service Years | Probability of Termination |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS |  | TRS |  | SERS |  | PSERS |  | LEOFF | WSPRS |
|  | Male | Female | Male | Female | Male | Female | Male | Female | Male \& Female |  <br> Female |
| 0 | 0.2624 | 0.2624 | 0.1110 | 0.1113 | 0.2448 | 0.1990 | 0.2624 | 0.2624 | 0.1070 | 0.0423 |
| 1 | 0.1545 | 0.1677 | 0.0903 | 0.0946 | 0.1588 | 0.1313 | 0.1545 | 0.1677 | 0.0481 | 0.0200 |
| 2 | 0.1007 | 0.1170 | 0.0598 | 0.0717 | 0.1169 | 0.1029 | 0.1007 | 0.1170 | 0.0245 | 0.0200 |
| 3 | 0.0752 | 0.0929 | 0.0451 | 0.0613 | 0.0995 | 0.0786 | 0.0752 | 0.0929 | 0.0194 | 0.0200 |
| 4 | 0.0631 | 0.0760 | 0.0414 | 0.0531 | 0.0811 | 0.0676 | 0.0631 | 0.0760 | 0.0187 | 0.0200 |
| 5 | 0.0544 | 0.0665 | 0.0368 | 0.0471 | 0.0664 | 0.0624 | 0.0544 | 0.0665 | 0.0181 | 0.0200 |
| 6 | 0.0449 | 0.0579 | 0.0295 | 0.0409 | 0.0608 | 0.0556 | 0.0449 | 0.0579 | 0.0174 | 0.0190 |
| 7 | 0.0418 | 0.0533 | 0.0272 | 0.0367 | 0.0556 | 0.0526 | 0.0418 | 0.0533 | 0.0168 | 0.0170 |
| 8 | 0.0389 | 0.0491 | 0.0251 | 0.0330 | 0.0509 | 0.0497 | 0.0389 | 0.0491 | 0.0161 | 0.0160 |
| 9 | 0.0362 | 0.0452 | 0.0231 | 0.0296 | 0.0465 | 0.0475 | 0.0362 | 0.0452 | 0.0155 | 0.0151 |
| 10 | 0.0337 | 0.0417 | 0.0213 | 0.0266 | 0.0426 | 0.0457 | 0.0337 | 0.0417 | 0.0148 | 0.0134 |
| 11 | 0.0314 | 0.0384 | 0.0197 | 0.0239 | 0.0389 | 0.0448 | 0.0314 | 0.0384 | 0.0142 | 0.0120 |
| 12 | 0.0292 | 0.0354 | 0.0182 | 0.0214 | 0.0356 | 0.0442 | 0.0292 | 0.0354 | 0.0135 | 0.0108 |
| 13 | 0.0272 | 0.0326 | 0.0167 | 0.0193 | 0.0326 | 0.0440 | 0.0272 | 0.0326 | 0.0129 | 0.0097 |
| 14 | 0.0253 | 0.0300 | 0.0154 | 0.0173 | 0.0298 | 0.0426 | 0.0253 | 0.0300 | 0.0122 | 0.0087 |
| 15 | 0.0236 | 0.0277 | 0.0142 | 0.0160 | 0.0273 | 0.0427 | 0.0236 | 0.0277 | 0.0116 | 0.0078 |
| 16 | 0.0220 | 0.0255 | 0.0131 | 0.0155 | 0.0250 | 0.0392 | 0.0220 | 0.0255 | 0.0109 | 0.0070 |
| 17 | 0.0204 | 0.0235 | 0.0121 | 0.0150 | 0.0245 | 0.0364 | 0.0204 | 0.0235 | 0.0103 | 0.0063 |
| 18 | 0.0190 | 0.0216 | 0.0115 | 0.0145 | 0.0240 | 0.0346 | 0.0190 | 0.0216 | 0.0096 | 0.0056 |
| 19 | 0.0177 | 0.0199 | 0.0113 | 0.0140 | 0.0235 | 0.0322 | 0.0177 | 0.0199 | 0.0090 | 0.0050 |
| 20 | 0.0153 | 0.0180 | 0.0100 | 0.0130 | 0.0230 | 0.0300 | 0.0153 | 0.0180 | 0.0083 | 0.0044 |
| 21 | 0.0132 | 0.0158 | 0.0095 | 0.0126 | 0.0225 | 0.0280 | 0.0132 | 0.0158 | 0.0077 | 0.0038 |
| 22 | 0.0115 | 0.0139 | 0.0093 | 0.0118 | 0.0220 | 0.0270 | 0.0115 | 0.0139 | 0.0070 | 0.0033 |
| 23 | 0.0099 | 0.0122 | 0.0090 | 0.0111 | 0.0209 | 0.0260 | 0.0099 | 0.0122 | 0.0064 | 0.0028 |
| 24 | 0.0086 | 0.0107 | 0.0088 | 0.0104 | 0.0182 | 0.0248 | 0.0086 | 0.0107 | 0.0057 | 0.0023 |
| 25 | 0.0074 | 0.0094 | 0.0082 | 0.0098 | 0.0159 | 0.0225 | 0.0074 | 0.0094 | 0.0051 | 0.0000 |
| 26 | 0.0064 | 0.0083 | 0.0077 | 0.0092 | 0.0138 | 0.0205 | 0.0064 | 0.0083 | 0.0044 | 0.0000 |
| 27 | 0.0055 | 0.0072 | 0.0071 | 0.0086 | 0.0121 | 0.0187 | 0.0055 | 0.0072 | 0.0038 | 0.0000 |
| 28 | 0.0048 | 0.0064 | 0.0067 | 0.0081 | 0.0105 | 0.0170 | 0.0048 | 0.0064 | 0.0031 | 0.0000 |
| 29 | 0.0042 | 0.0056 | 0.0062 | 0.0076 | 0.0092 | 0.0155 | 0.0042 | 0.0056 | 0.0025 | 0.0000 |
| 30+ | 0.0036 | 0.0049 | 0.0058 | 0.0072 | 0.0080 | 0.0141 | 0.0036 | 0.0049 | 0.0018 | 0.0000 |

Rates have been rounded for display purposes.

|  |  |  |  | ility of Ve <br> those not | g upon T ible to retir | ination* arly) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | SERS | PSERS |  |  | WSPRS |
|  | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 2 | Plan 2 | Plan 1 | Plan 2 |  |
| Service | Male \& | Male \& | Male \& | Male \& | Male \& | Male \& | Male \& | Male \& |  |
| Years | Female | Female | Female | Female | Female | Female | Female | Female | Female |
| 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 5 | 0.500 | 0.550 | 0.725 | 0.700 | 0.650 | 0.550 | 1.000 | 0.325 | 0.475 |
| 6 | 0.500 | 0.550 | 0.775 | 0.700 | 0.675 | 0.550 | 1.000 | 0.350 | 0.475 |
| 7 | 0.550 | 0.550 | 0.800 | 0.700 | 0.675 | 0.550 | 1.000 | 0.350 | 0.475 |
| 8 | 0.550 | 0.550 | 0.800 | 0.750 | 0.675 | 0.550 | 1.000 | 0.350 | 0.475 |
| 9 | 0.600 | 0.575 | 0.800 | 0.750 | 0.700 | 0.575 | 1.000 | 0.375 | 0.475 |
| 10 | 0.600 | 0.575 | 0.800 | 0.750 | 0.700 | 0.575 | 1.000 | 0.375 | 0.475 |
| 11 | 0.600 | 0.600 | 0.825 | 0.775 | 0.700 | 0.600 | 1.000 | 0.400 | 0.475 |
| 12 | 0.600 | 0.625 | 0.825 | 0.800 | 0.700 | 0.625 | 1.000 | 0.400 | 0.500 |
| 13 | 0.600 | 0.625 | 0.875 | 0.800 | 0.700 | 0.625 | 1.000 | 0.400 | 0.500 |
| 14 | 0.650 | 0.625 | 0.875 | 0.850 | 0.750 | 0.625 | 1.000 | 0.400 | 0.500 |
| 15 | 0.650 | 0.650 | 0.875 | 0.850 | 0.750 | 0.650 | 1.000 | 0.400 | 0.500 |
| 16 | 0.650 | 0.650 | 0.875 | 0.850 | 0.775 | 0.650 | 1.000 | 0.450 | 0.500 |
| 17 | 0.650 | 0.675 | 0.875 | 0.850 | 0.775 | 0.675 | 1.000 | 0.450 | 0.500 |
| 18 | 0.675 | 0.675 | 0.875 | 0.900 | 0.775 | 0.675 | 1.000 | 0.500 | 0.550 |
| 19 | 0.675 | 0.675 | 0.875 | 0.900 | 0.775 | 0.675 | 1.000 | 0.550 | 0.600 |
| 20 | 0.675 | 0.750 | 0.900 | 0.950 | 0.800 | 0.788 | 1.000 | 0.600 | 0.750 |
| 21 | 0.675 | 0.750 | 0.900 | 0.950 | 0.825 | 0.788 | 1.000 | 0.600 | 0.800 |
| 22 | 0.675 | 0.750 | 0.900 | 0.950 | 0.850 | 0.788 | 1.000 | 0.650 | 0.900 |
| 23 | 0.675 | 0.800 | 0.925 | 0.950 | 0.850 | 0.840 | 1.000 | 0.800 | 1.000 |
| 24 | 0.675 | 0.800 | 0.925 | 0.950 | 0.850 | 0.840 | 1.000 | 0.850 | 1.000 |
| 25 | 0.700 | 0.800 | 0.925 | 0.950 | 0.850 | 0.840 | 1.000 | 0.900 | 1.000 |
| 26 | 0.750 | 0.800 | 0.950 | 0.950 | 0.850 | 0.840 | 1.000 | 0.900 | 1.000 |
| 27 | 0.750 | 0.850 | 1.000 | 0.975 | 0.900 | 0.893 | 1.000 | 0.900 | 1.000 |
| 28 | 0.850 | 0.850 | 1.000 | 0.975 | 0.900 | 0.893 | 1.000 | 0.950 | 1.000 |
| 29 | 0.900 | 0.900 | 1.000 | 0.975 | 0.900 | 0.945 | 1.000 | 0.950 | 1.000 |
| 30+ | 0.950 | 0.950 | 1.000 | 1.000 | 0.950 | 0.950 | 1.000 | 0.950 | 1.000 |

*Denotes ratio of members who do not withdraw their savings when they leave employment.

Ratio of Survivors Selecting Annuities*

|  | PERS 1 |  | PERS 2 |  | PERS 3 |  | TRS 1 |  | TRS 2 |  | TRS 3 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| 27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 |
| 28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.13 |
| 29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.17 |
| 30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.20 |
| 31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.23 |
| 32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.25 |
| 33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.27 |
| 34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.29 |
| 35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.31 |
| 36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.32 |
| 37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.34 |
| 38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.35 |
| 39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.36 |
| 40 | 0.26 | 0.00 | 0.02 | 0.00 | 0.25 | 0.20 | 0.28 | 0.03 | 0.00 | 0.00 | 0.33 | 0.37 |
| 41 | 0.34 | 0.06 | 0.05 | 0.01 | 0.27 | 0.20 | 0.37 | 0.14 | 0.00 | 0.00 | 0.35 | 0.38 |
| 42 | 0.39 | 0.14 | 0.07 | 0.02 | 0.29 | 0.20 | 0.43 | 0.21 | 0.00 | 0.00 | 0.36 | 0.39 |
| 43 | 0.43 | 0.19 | 0.10 | 0.04 | 0.31 | 0.21 | 0.46 | 0.25 | 0.00 | 0.00 | 0.37 | 0.40 |
| 44 | 0.46 | 0.23 | 0.12 | 0.05 | 0.33 | 0.21 | 0.49 | 0.29 | 0.00 | 0.00 | 0.38 | 0.41 |
| 45 | 0.48 | 0.26 | 0.15 | 0.06 | 0.35 | 0.21 | 0.51 | 0.32 | 0.00 | 0.00 | 0.39 | 0.42 |
| 46 | 0.50 | 0.29 | 0.17 | 0.08 | 0.37 | 0.22 | 0.53 | 0.35 | 0.03 | 0.00 | 0.40 | 0.43 |
| 47 | 0.52 | 0.32 | 0.20 | 0.09 | 0.39 | 0.22 | 0.55 | 0.37 | 0.07 | 0.01 | 0.41 | 0.43 |
| 48 | 0.53 | 0.34 | 0.22 | 0.11 | 0.41 | 0.22 | 0.57 | 0.39 | 0.11 | 0.04 | 0.42 | 0.44 |
| 49 | 0.54 | 0.36 | 0.25 | 0.12 | 0.43 | 0.23 | 0.58 | 0.40 | 0.14 | 0.07 | 0.43 | 0.45 |

Rates have been rounded for display purposes.
*Refers to survivor who selects annuity payments (rather than a lump sum payment) upon active or terminated vested member's death.
The LEOFF 2 and WSPRS 2 ratios are 0.642 for duty-related deaths.

Ratio of Survivors Selecting Annuities*

| Age | Ratio of Survivors Selecting Annuities* (Continued) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS 1 |  | PERS 2 |  | PERS 3 |  | TRS 1 |  | TRS 2 |  | TRS 3 |  |
|  | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| 50 | 0.56 | 0.37 | 0.27 | 0.13 | 0.45 | 0.23 | 0.59 | 0.42 | 0.18 | 0.10 | 0.44 | 0.45 |
| 51 | 0.57 | 0.39 | 0.29 | 0.15 | 0.47 | 0.24 | 0.60 | 0.43 | 0.22 | 0.13 | 0.45 | 0.46 |
| 52 | 0.58 | 0.40 | 0.32 | 0.16 | 0.49 | 0.24 | 0.61 | 0.45 | 0.26 | 0.16 | 0.45 | 0.47 |
| 53 | 0.58 | 0.42 | 0.34 | 0.18 | 0.51 | 0.24 | 0.62 | 0.46 | 0.30 | 0.19 | 0.46 | 0.47 |
| 54 | 0.59 | 0.43 | 0.37 | 0.19 | 0.53 | 0.25 | 0.63 | 0.47 | 0.34 | 0.22 | 0.47 | 0.48 |
| 55 | 0.60 | 0.44 | 0.39 | 0.20 | 0.55 | 0.25 | 0.64 | 0.48 | 0.37 | 0.25 | 0.48 | 0.48 |
| 56 | 0.61 | 0.45 | 0.42 | 0.22 | 0.57 | 0.25 | 0.65 | 0.49 | 0.41 | 0.28 | 0.48 | 0.49 |
| 57 | 0.62 | 0.46 | 0.44 | 0.23 | 0.59 | 0.26 | 0.65 | 0.50 | 0.45 | 0.31 | 0.49 | 0.49 |
| 58 | 0.62 | 0.47 | 0.47 | 0.25 | 0.61 | 0.26 | 0.66 | 0.51 | 0.49 | 0.34 | 0.50 | 0.50 |
| 59 | 0.63 | 0.48 | 0.49 | 0.26 | 0.63 | 0.26 | 0.67 | 0.52 | 0.53 | 0.37 | 0.50 | 0.50 |
| 60 | 0.64 | 0.49 | 0.52 | 0.28 | 0.65 | 0.27 | 0.67 | 0.52 | 0.56 | 0.40 | 0.51 | 0.51 |
| 61 | 0.64 | 0.50 | 0.54 | 0.29 | 0.67 | 0.27 | 0.68 | 0.53 | 0.60 | 0.43 | 0.52 | 0.51 |
| 62 | 0.68 | 0.54 | 0.60 | 0.34 | 0.73 | 0.31 | 0.72 | 0.57 | 0.67 | 0.50 | 0.55 | 0.55 |
| 63 | 0.68 | 0.55 | 0.62 | 0.35 | 0.75 | 0.31 | 0.72 | 0.58 | 0.71 | 0.53 | 0.56 | 0.56 |
| 64 | 0.69 | 0.55 | 0.65 | 0.36 | 0.77 | 0.32 | 0.73 | 0.58 | 0.75 | 0.56 | 0.57 | 0.56 |
| 65 | 0.69 | 0.56 | 0.67 | 0.38 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.57 | 0.56 |
| 66 | 0.70 | 0.57 | 0.70 | 0.39 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.58 | 0.57 |
| 67 | 0.70 | 0.57 | 0.72 | 0.41 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.58 | 0.57 |
| 68 | 0.71 | 0.58 | 0.75 | 0.42 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.59 | 0.58 |
| 69 | 0.71 | 0.59 | 0.77 | 0.44 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.59 | 0.58 |
| 70 | 0.72 | 0.59 | 0.80 | 0.45 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.60 | 0.58 |
| 71 | 0.72 | 0.59 | 0.80 | 0.45 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.60 | 0.58 |
| 72 | 0.72 | 0.59 | 0.80 | 0.45 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.60 | 0.58 |
| 73 | 0.72 | 0.59 | 0.80 | 0.45 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.60 | 0.58 |
| 74 | 0.72 | 0.59 | 0.80 | 0.45 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.60 | 0.58 |
| 75 | 0.72 | 0.59 | 0.80 | 0.45 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.60 | 0.58 |
| 76 | 0.72 | 0.59 | 0.80 | 0.45 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.60 | 0.58 |
| 77 | 0.72 | 0.59 | 0.80 | 0.45 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.60 | 0.58 |
| 78 | 0.72 | 0.59 | 0.80 | 0.45 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.60 | 0.58 |
| 79 | 0.72 | 0.59 | 0.80 | 0.45 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.60 | 0.58 |
| 80 | 0.72 | 0.59 | 0.80 | 0.45 | 0.79 | 0.32 | 0.73 | 0.59 | 0.79 | 0.59 | 0.60 | 0.58 |

Rates have been rounded for display purposes.
*Refers to survivor who selects annuity payments (rather than a lump sum payment) upon active or terminated vested member's death. The LEOFF 2 and WSPRS 2 ratios are 0.642 for duty-related deaths.

Ratio of Survivors Selecting Annuities*

|  | SERS 2 |  | SERS 3 |  | PSERS |  | LEOFF 1 | LEOFF 2 | WSPRS 1 | WSPRS 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Male | Female | Male | Female | Male | Female | M \& F | M\&F | M\&F | M\&F |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.02 |
| 32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.12 |
| 33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.19 |
| 34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.24 |
| 35 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.28 |
| 36 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.32 | 0.00 | 0.32 |
| 37 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.35 |
| 38 | 0.00 | 0.00 | 0.00 | 0.30 | 0.04 | 0.01 | 0.00 | 0.38 | 0.00 | 0.38 |
| 39 | 0.00 | 0.00 | 0.00 | 0.31 | 0.10 | 0.04 | 0.00 | 0.41 | 0.00 | 0.41 |
| 40 | 0.00 | 0.00 | 0.00 | 0.32 | 0.15 | 0.07 | 0.64 | 0.43 | 0.64 | 0.43 |
| 41 | 0.00 | 0.00 | 0.02 | 0.32 | 0.19 | 0.10 | 0.64 | 0.45 | 0.64 | 0.45 |
| 42 | 0.03 | 0.05 | 0.11 | 0.33 | 0.22 | 0.12 | 0.64 | 0.47 | 0.64 | 0.47 |
| 43 | 0.09 | 0.10 | 0.17 | 0.33 | 0.25 | 0.14 | 0.64 | 0.49 | 0.64 | 0.49 |
| 44 | 0.14 | 0.13 | 0.22 | 0.34 | 0.28 | 0.16 | 0.64 | 0.51 | 0.64 | 0.51 |
| 45 | 0.18 | 0.16 | 0.26 | 0.34 | 0.30 | 0.17 | 0.64 | 0.52 | 0.64 | 0.52 |
| 46 | 0.21 | 0.18 | 0.29 | 0.34 | 0.32 | 0.19 | 0.64 | 0.54 | 0.64 | 0.54 |
| 47 | 0.24 | 0.20 | 0.32 | 0.35 | 0.34 | 0.20 | 0.64 | 0.55 | 0.64 | 0.55 |
| 48 | 0.26 | 0.22 | 0.35 | 0.35 | 0.36 | 0.21 | 0.64 | 0.56 | 0.64 | 0.56 |
| 49 | 0.29 | 0.24 | 0.37 | 0.35 | 0.38 | 0.22 | 0.64 | 0.58 | 0.64 | 0.58 |

Rates have been rounded for display purposes.
*Refers to survivor who selects annuity payments (rather than a lump sum payment) upon active or terminated
vested member's death. The LEOFF 2 and WSPRS 2 ratios are 0.642 for duty-related deaths.

Ratio of Survivors Selecting Annuities*

| Age | (Continued) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SERS 2 |  | SERS 3 |  | PSERS |  | LEOFF 1 | LEOFF 2 | WSPRS 1 | WSPRS 2 |
|  | Male | Female | Male | Female | Male | Female | M\&F | M\&F | M\&F | M\&F |
| 50 | 0.31 | 0.25 | 0.39 | 0.36 | 0.40 | 0.23 | 0.64 | 0.59 | 0.64 | 0.59 |
| 51 | 0.32 | 0.27 | 0.41 | 0.36 | 0.41 | 0.24 | 0.64 | 0.60 | 0.64 | 0.60 |
| 52 | 0.34 | 0.28 | 0.43 | 0.36 | 0.43 | 0.25 | 0.64 | 0.61 | 0.64 | 0.61 |
| 53 | 0.36 | 0.29 | 0.44 | 0.36 | 0.44 | 0.26 | 0.64 | 0.62 | 0.64 | 0.62 |
| 54 | 0.37 | 0.30 | 0.46 | 0.36 | 0.45 | 0.27 | 0.64 | 0.63 | 0.64 | 0.63 |
| 55 | 0.39 | 0.31 | 0.47 | 0.37 | 0.47 | 0.28 | 0.64 | 0.64 | 0.64 | 0.64 |
| 56 | 0.40 | 0.32 | 0.48 | 0.37 | 0.48 | 0.29 | 0.64 | 0.65 | 0.64 | 0.65 |
| 57 | 0.41 | 0.33 | 0.50 | 0.37 | 0.49 | 0.29 | 0.64 | 0.66 | 0.64 | 0.66 |
| 58 | 0.42 | 0.34 | 0.51 | 0.37 | 0.50 | 0.30 | 0.64 | 0.67 | 0.64 | 0.67 |
| 59 | 0.43 | 0.35 | 0.52 | 0.37 | 0.51 | 0.31 | 0.64 | 0.67 | 0.64 | 0.67 |
| 60 | 0.44 | 0.35 | 0.53 | 0.37 | 0.52 | 0.31 | 0.64 | 0.68 | 0.64 | 0.68 |
| 61 | 0.45 | 0.36 | 0.54 | 0.38 | 0.53 | 0.32 | 0.64 | 0.69 | 0.64 | 0.69 |
| 62 | 0.49 | 0.40 | 0.58 | 0.41 | 0.57 | 0.36 | 0.67 | 0.73 | 0.67 | 0.73 |
| 63 | 0.50 | 0.41 | 0.59 | 0.41 | 0.58 | 0.37 | 0.67 | 0.74 | 0.67 | 0.74 |
| 64 | 0.51 | 0.41 | 0.60 | 0.41 | 0.59 | 0.37 | 0.67 | 0.75 | 0.67 | 0.75 |
| 65 | 0.52 | 0.42 | 0.61 | 0.41 | 0.60 | 0.38 | 0.67 | 0.75 | 0.67 | 0.75 |
| 66 | 0.53 | 0.43 | 0.62 | 0.42 | 0.61 | 0.38 | 0.67 | 0.75 | 0.67 | 0.75 |
| 67 | 0.54 | 0.43 | 0.62 | 0.42 | 0.62 | 0.39 | 0.67 | 0.75 | 0.67 | 0.75 |
| 68 | 0.54 | 0.44 | 0.63 | 0.42 | 0.62 | 0.39 | 0.67 | 0.75 | 0.67 | 0.75 |
| 69 | 0.55 | 0.44 | 0.64 | 0.42 | 0.63 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |
| 70 | 0.56 | 0.45 | 0.65 | 0.42 | 0.64 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |
| 71 | 0.56 | 0.45 | 0.65 | 0.42 | 0.64 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |
| 72 | 0.56 | 0.45 | 0.65 | 0.42 | 0.64 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |
| 73 | 0.56 | 0.45 | 0.65 | 0.42 | 0.64 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |
| 74 | 0.56 | 0.45 | 0.65 | 0.42 | 0.64 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |
| 75 | 0.56 | 0.45 | 0.65 | 0.42 | 0.64 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |
| 76 | 0.56 | 0.45 | 0.65 | 0.42 | 0.64 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |
| 77 | 0.56 | 0.45 | 0.65 | 0.42 | 0.64 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |
| 78 | 0.56 | 0.45 | 0.65 | 0.42 | 0.64 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |
| 79 | 0.56 | 0.45 | 0.65 | 0.42 | 0.64 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |
| 80 | 0.56 | 0.45 | 0.65 | 0.42 | 0.64 | 0.40 | 0.67 | 0.75 | 0.67 | 0.75 |

Rates have been rounded for display purposes.
*Refers to survivor who selects annuity payments (rather than a lump sum payment) upon active or terminated vested member's death. The LEOFF 2 and WSPRS 2 ratios are 0.642 for duty-related deaths.

| Years | Early Retirement Factors |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PERS 2/3, TRS 2/3, SERS 2/3 | WSPRS 2, PERS 1, TRS 1 | PSERS 2, PERS 1 TV, WSPRS 1/2 TV | LEOFF 2 | LEOFF 2 <br> Subsidized 3\%* | PSERS 2 <br> Subsidized 3\%* | Plan 2/3 Subsidized** | $\begin{gathered} \text { Plan } 2 / 3 \\ \text { Subsidized } 5 \%^{* *} \end{gathered}$ |
| 0 | 1.000 | 1.000 | 1.000 | 1.000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 1 | 0.898 | 0.910 | 0.903 | 0.914 | 0.97 | 1.00 | 1.00 | 0.95 |
| 2 | 0.808 | 0.829 | 0.817 | 0.836 | 0.94 | 1.00 | 1.00 | 0.90 |
| 3 | 0.728 | 0.757 | 0.740 | 0.765 | 0.91 | 1.00 | 1.00 | 0.85 |
| 4 | 0.657 | 0.691 | 0.672 | 0.701 | N/A | 1.00 | 0.98 | 0.80 |
| 5 | 0.594 | 0.632 | 0.610 | 0.642 | N/A | 1.00 | 0.95 | 0.75 |
| 6 | 0.537 | 0.578 | 0.555 | 0.589 | N/A | 0.97 | 0.92 | 0.70 |
| 7 | 0.487 | 0.529 | 0.505 | 0.541 | N/A | 0.94 | 0.89 | 0.65 |
| 8 | 0.442 | 0.485 | 0.460 | 0.497 | N/A | 0.91 | 0.86 | 0.60 |
| 9 | 0.401 | 0.445 | 0.420 | 0.456 | N/A | 0.88 | 0.83 | 0.55 |
| 10 | 0.365 | 0.409 | 0.383 | 0.420 | N/A | 0.85 | 0.80 | 0.50 |
| 11 | 0.332 | 0.375 | 0.350 | 0.386 | N/A | 0.82 | N/A | N/A |
| 12 | 0.302 | 0.345 | 0.319 | 0.355 | N/A | 0.79 | N/A | N/A |
| 13 | 0.275 | 0.317 | 0.292 | 0.327 | N/A | N/A | N/A | N/A |
| 14 | 0.251 | 0.291 | 0.267 | 0.301 | N/A | N/A | N/A | N/A |
| 15 | 0.229 | 0.268 | 0.245 | 0.278 | N/A | N/A | N/A | N/A |
| 16 | 0.209 | 0.246 | 0.224 | 0.256 | N/A | N/A | N/A | N/A |
| 17 | 0.191 | 0.227 | 0.205 | 0.236 | N/A | N/A | N/A | N/A |
| 18 | 0.175 | 0.208 | 0.188 | 0.218 | N/A | N/A | N/A | N/A |
| 19 | 0.160 | 0.192 | 0.173 | 0.201 | N/A | N/A | N/A | N/A |
| 20 | 0.146 | 0.176 | 0.158 | 0.186 | N/A | N/A | N/A | N/A |
| 21 | 0.134 | 0.162 | 0.145 | 0.171 | N/A | N/A | N/A | N/A |
| 22 | 0.123 | 0.149 | 0.133 | 0.158 | N/A | N/A | N/A | N/A |
| 23 | 0.112 | 0.138 | 0.123 | 0.146 | N/A | N/A | N/A | N/A |
| 24 | 0.103 | 0.127 | 0.113 | 0.135 | N/A | N/A | N/A | N/A |
| 25 | 0.100 | 0.117 | 0.103 | 0.125 | N/A | N/A | N/A | N/A |
| 26 | 0.100 | 0.107 | 0.100 | 0.116 | N/A | N/A | N/A | N/A |
| 27 | 0.100 | 0.100 | 0.100 | 0.107 | N/A | N/A | N/A | N/A |
| 28 | 0.100 | 0.100 | 0.100 | 0.100 | N/A | N/A | N/A | N/A |
| 29 | 0.100 | 0.100 | 0.100 | 0.100 | N/A | N/A | N/A | N/A |
| 30+ | 0.100 | 0.100 | 0.100 | 0.100 | N/A | N/A | N/A | N/A |

From Normal Retirement Age. TV=Terminated Vested.
*LEOFF 2 members must be at least age 50 with 20 or more years of service to qualify.
PSERS 2 members must be at least age 53 with 20 or more years of service to qualify
${ }^{* *} P E R S 2 / 3$, TRS 2/3, and SERS $2 / 3$ members must be at least 55 with 30 or more years of service to qualify. Qualified members hired on or after $5 / 1 / 2013$ will receive a $5 \%$ subsidized ERF.

| Average Final Compensation Load |  |
| :--- | ---: |
|  |  |
| System/Plan | Load |
| PERS 1 | $4.00 \%$ |
| TRS 1 | $0.75 \%$ |
| LEOFF 1 | $4.50 \%$ |
| WSPRS 1 | $7.00 \%$ |

Reflects allowances for cashouts of annual and sick leave for calculation of Average Final Compensation.

| Member/Beneficiary Age Difference <br> (In Years) |  |  |
| :--- | :---: | :---: |
| System | Male <br> Member | Female <br> Member |
| PERS | 3 | $(1)$ |
| TRS | 3 | $(1)$ |
| SERS | 3 | $(1)$ |
| PSERS | 3 | $(1)$ |
| LEOFF | 3 | $(1)$ |
| WSPRS | 3 | $(1)$ |

Age difference is Member age minus Beneficiary age.

| Certain and Life Annuities: Years Certain |  |
| :--- | :---: |
| System |  |
| PERS 1 | 4 |
| PERS 2 | 4 |
| TRS 1* | 9 |
| TRS 2 | 5 |
| SERS 2 | 4 |
| PSERS 2 | 4 |
| LEOFF 1 | 3 |
| LEOFF 2 | 5 |
| WSPRS 1 | 4 |
| WSPRS 2 | 5 |

*Only disabled members get this without a reduction in their benefit. The certain period applies to only the "annuity" portion of the benefit, typically $40 \%$ of the total benefit.

Assumed Retirement Age from Inactive Status

| System | Plans | Retirement Age |
| :---: | :---: | :---: |
| PERS | 1 | 65 (60 under certain circumstances) |
|  | 2 | 65 (55 if service >= $\mathbf{3 0}$ years) |
|  | 3 | 65 (55 if service >= $\mathbf{3 0}$ years)* |
| TRS | 1 | Same eligibility as if the member were active |
|  | 2 | Same as PERS 2 |
|  | 3 | Same as PERS 3 |
| SERS | 2 | Same as PERS 2 |
|  | 3 | Same as PERS 3 |
| PSERS | 2 | Same eligibility as if the member were active |
| LEOFF | 2 | 53 ( 50 if service $>=20$ years) |
| WSPRS | 1/2 | 60 |

*See table to the right if service is at least 20 years, but less than 30 years.

| Military Service |  |
| :--- | :---: |
|  |  |
|  | Increase Factor |
| PERS 1* | $1.5 \%$ |
| Males | $0.1 \%$ |
| Females | $3.0 \%$ |
| WSPRS 1** | $1.0 \%$ |
| Males |  |
| Females |  |

Members with 25 years of service may receive up to 5
years of military service credit.
*Members of PERS Plan 1 may use certain prior military service as well as interruptive military service.
**Members of WSPRS Plan 1 may use all prior military service as well as interruptive military service.

| Member Age | Deferral Percent* |
| :---: | :---: |
| 55 | 85\% |
| 56 | 85\% |
| 57 | 75\% |
| 58 | 75\% |
| 59 | 75\% |
| 60 | 60\% |
| 61 | 40\% |
| 62 | 40\% |
| 63 | 20\% |
| 64 | 15\% |

*Probability a Plan 3 member who terminates before age 65 with between 20 and 30 years of service will defer retirement until age 65.

| Duty-Related Death Assumption |  |
| :--- | :---: |
| System | Duty Death Rate* |
| PERS | $0.0018 \%$ |
| TRS | $0.0008 \%$ |
| SERS | $0.0018 \%$ |
| PSERS | $0.0018 \%$ |
| LEOFF 1 | $0.0350 \%$ |
| LEOFF 2 | $0.0350 \%$ |
| WSPRS | $0.0200 \%$ |

*The duty death rate is a constant probability, regardless of age.
The nonduty death rate is
obtained by subtracting duty death rate from mortality rate for any given age.

| LEOFF 2Duty-Related Disability <br> Assumption <br> Age |  |
| :---: | :---: |
| $\mathbf{2 0}$ | Duty Disability Rate* |$|$| $\mathbf{2 5}$ | $97.25 \%$ |
| :---: | :---: |
| $\mathbf{3 0}$ | $95.86 \%$ |
| $\mathbf{3 5}$ | $94.50 \%$ |
| $\mathbf{4 0}$ | $93.11 \%$ |
| $\mathbf{4 5}$ | $91.75 \%$ |
| $\mathbf{5 0}$ | $89.00 \%$ |
| $\mathbf{5 5 +}$ | $86.25 \%$ |

*Probability of disability being dutyrelated; geometrically interpolated between given values. Applies to LEOFF 2 only. Table represents a summary of rates.

## Additional Duty-Related Assumptions for LEOFF 2

Percent of disabilities assumed to be catastrophic

| Percent of deaths assumed to be caused by occupational |  |
| :--- | ---: |
| diseases for fire fighters | Rate |
| Age | $14.74 \%$ |
| $20-49$ | $27.39 \%$ |
| $50-69$ | $44 \%$ |
| Percent of Final Average Salary paid for catastrophic <br> disability benefits (including offset adjustments). |  |


\left.| Average Ratio of Survivors of Inactive Deaths |  |  |  |
| :--- | :---: | :---: | :---: |
| Selecting Annuities* |  |  |  |$\right]$.

*Refers to survivor who selects annuity payments (rather than a lump sum payment) if a currently terminated vested member dies before retirement age.

Joint and 100 Percent Survivor Option Factors*

| System | Plans | Male <br> Members | Female <br> Members |
| :--- | :---: | :---: | :---: |
| PERS | $\mathbf{1}$ | 0.869 | 0.893 |
| TRS | $\mathbf{2 / 3}$ | 0.780 | 0.828 |
|  | $\mathbf{1}$ | 0.893 | 0.914 |
| SERS | $\mathbf{2 / 3}$ | 0.805 | 0.856 |
| PSERS | $\mathbf{2 / 3}$ | 0.765 | 0.845 |
| LEOFF** | $\mathbf{2}$ | 0.797 | 0.826 |
| WSPRS** $^{\text {W }}$ | $\mathbf{2}$ | 0.859 | 0.881 |
| WSPRS** $^{*}$ | $\mathbf{1}$ | 0.944 | 0.956 |

*Applied to on-going survivor benefits in the event of a pre-retirement death. Based on our member/
beneficiary age difference assumptions and the option factors in WAC 415-02-380.
**Standard survivor benefits in LEOFF 1 are not reduced. WSPRS Plan 1 reductions apply for Option B. LEOFF Plan 2 and WSPRS Plan 2 reductions apply to non-duty death benefits only.

| Employee Contribution Rates for Savings Fund Accrual |  |
| :---: | :---: |
|  |  |
| System/Plans | Contribution Rate* |
| PERS 2 | $4.94 \%$ |
| TRS 2 | $6.19 \%$ |
| SERS 2 | $5.27 \%$ |
| PSERS 2 | $6.89 \%$ |
| LEOFF 2 | $8.41 \%$ |
| WSPRS 1/2 | $7.19 \%$ |

This assumption helps us estimate the value of accumulated employee contributions with interest if a member elects a refund of contributions instead of a deferred retirement allowance upon termination.
*PERS 1 and TRS 1 employee rates are set in statute at $6 \%$. No LEOFF 1 rates are required as long as the plan remains fully funded. Plan 3 members do not contribute to the defined benefit plan.

## Medical Premium Reimbursement

- RCW 41.26.510(5) and RCW 43.43.285(2) (b) state that qualified survivors and children of line-of-duty deaths (Survivors) in LEOFF 2 and WSPRS shall have medical premiums reimbursed from the retirement fund. The laws also provide that all survivors will be covered by the Public Employees Benefits Board (PEBB).
- RCW 41.26.470(10) states that LEOFF 2 members with total disabilities (Disabilities) and qualified family members shall have medical premiums reimbursed from the retirement fund.
The costs for these benefits are included in the results presented in this report. However, the benefits are funded through irrevocable trust funds, known as 401 (h) accounts, from contribution rates selected by the Department of Retirement Systems (DRS) and the LEOFF 2 Board. These contribution rates are "carved out" of the total adopted contribution rates. DRS and the LEOFF 2 Board will periodically review the funding requirements for these benefits and adjust the 401 (h) contribution rates as necessary.
The information in the next section represents methods and assumptions tied directly to the medical premium reimbursement benefits. Please see the 2013 Other Post-Employment Benefits Actuarial Valuation Report (OPEB Report) for the following referenced assumptions.


## Medical Inflation

## Current and Future Survivors, and

Future Disabilities: Uniform Medical Plan (UMP) Medicare and Pre-Medicare assumptions without excise tax (OPEB report).

## Current Disabilities: 5 percent per year.

## Percent Married

Future Disabilities: 85 percent.
Current Disabilities: 100 percent.

## Percent With Children

Disabilities and Survivors: 100 percent, one child each.

## Premium Percentages

When the data for members currently qualifying for total disability benefits does not provide information about how many family members are covered, we use the assumptions below to split the total premium into each family member's share.

|  | Premium Percentages <br> (Current Disabilities) <br> Percent of <br> Total Premium |
| :--- | :---: |
| Family Member | $34 \%$ |
| Primary | $49 \%$ |
| Spouse | $17 \%$ |
| Child | $100 \%$ |
| All |  |

## Assumed Coverage Type, Future Disabilities

Fiffy percent covered by policies provided under the Consolidated Omnibus Budget Reconciliation Act of 1985 (COBRA).

Fifty percent covered by employer-provided policies.

```
Assumed Timing/Length of Coverage
```

| Assumed Timing/Length of Coverage |  |  |
| :---: | :---: | :---: |
| Coverage Type Beneficiary Type | Start of Coverage | End of Coverage |
| COBRA |  |  |
| Future Disabilities Current Disabilities | Upon Benefit Commencement Upon Benefit Commencement | 2.5 Years after Commencement* <br> 29 Months after Commencement |
| Employer/PEBB |  |  |
| Survivors and Spouses of Disabilities <br> Disabilities <br> Child | Upon Benefit Commencement Upon Benefit Commencement Upon Benefit Commencement | Age 65** <br> 29 Months after Commencement <br> 10 Years after Commencement** |
| Medicare |  |  |
| Future Disabilities Current Disabilities <br> Survivors and Spouses of Disabilities | 2.5 Years after Commencement* <br> 29 Months after Commencement <br> Age 65** | Paid for Life <br> Paid for Life Paid for Life** |
| State-Provided Medicare Subsidy*** |  |  |
| Current and Future Disabilities | 29 Months After Commencement | Paid for Life |

*Because of a limitation in the model, we assume 2 years for $50 \%$ of members, and 3 years for $50 \%$ of members, depending on member's age at benefit commencement.
**Benefits paid to spouses and child(ren) of Disabilities for the life of the member.
***Whether member is covered by COBRA or other means, we assume the member is also covered under the state's explicit Medicare subsidy.

Assumed Premiums

| Disabilities <br> (Used for Future Disabilities and Current Disabilities Who Have Missing Values) |  |  |  |
| :---: | :---: | :---: | :---: |
| Coverage Type | Family Member | Category | Annual Premium |
| COBRA |  |  |  |
|  | Member | Pre-Medicare | \$10,376.62 |
|  | Spouse | Pre-Medicare | 5,807.57 |
|  | Child | Pre-Medicare | \$3,058.40 |
| Employer |  |  |  |
|  | Member | Pre-Medicare | \$12,895.81 |
|  |  | Medicare | 7,854.30 |
|  | Spouse | Pre-Medicare | 11,457.78 |
|  |  | Medicare | 7,392.38 |
|  | Child | Pre-Medicare | \$3,962.35 |
| Total Disabilities |  |  |  |
| State-Provided Medicare Subsidy |  |  |  |
| Age Annual Subsidy |  |  |  |
|  | Less than 25 | \$6,472.80 |  |
|  | 25-27 | 4,084.80 |  |
|  | 28 and Above | \$1,156.80 |  |
| Future Survivors <br> (Covered under PEBB Options) |  |  |  |
|  |  | Annual P |  |
| Family Member | Category | Medical | Dental |
| Survivor |  |  |  |
|  | Pre-Medicare | \$6,549.96 | \$556.08 |
|  | Medicare | \$2,630.88 | \$556.08 |
| Child |  |  |  |
|  | Pre-Medicare | \$4,856.88 | \$556.08 |

## Miscellaneous Assumptions/ Methods

We include the following miscellaneous assumptions and methods in this valuation.

- Minimum and maximum allowable ages are set in the data as follows.

|  | Non-Annuitants | Annuitants |
| :---: | :---: | :---: |
| Minimum Age | 16 | 20 |
| Maximum Age | 80 | 110 |

- Default entry salaries, usually increased for past service, are assigned for active members with less than two months' service during the valuation year.
- Historical salaries for vested terminated members are not provided in the valuation data. Beginning with the 2008 valuation year, we first look to see if we kept a historical salary for such a member in the prior year's data. If so, we copy the salary to the current year's data. If a member was active in the prior year and terminated in the current year, we copy the prior year's salary to the current year's salary and keep it as historical.

Additionally, in 2009 we searched our data for actual salaries up to ten years prior for terminated vested members who did not already have historical salaries listed. To estimate salaries for the remaining terminated vested members, we use the following procedure. First, a salary
appropriate for the given system/plan and the member's total past service is assigned. These salaries are determined as of a given base year. Second, the salary is divided by the general salary increase assumption for each year the member has been inactive as measured from the base year. Please see the 2007-2012 Experience Study Report for a record of the salaries used.

- While DRS reports salaries earned during the year prior to the valuation date, the salaries used in the first year of the valuation process have received an additional merit salary increase. In other words, the valuation software projects salaries to the coming year, beginning the day after the valuation date.
- All systems use a midyear decrement timing assumption.
- Members who receive a disability benefit are not assumed to return to active duty in the future.
- Disability and termination rates are discontinued after members are eligible to retire (with the exception of LEOFF and WSPRS disability rates).

4: Appendices

- LEOFF Plan 1 and WSPRS Plan 1 use a slightly increased ratio of survivors selecting annuities over that displayed in the table presented earlier in this section. This assumption estimates the likelihood a qualified survivor will receive an ongoing benefit at the time of the member's death. The valuation software used also applies mortality assumptions to potential survivors, which results in an understatement of that future liability for those plans. To recognize this liability, we assume a 67 percent survivor annuity.
- We assume all survivors of currently retired WSPRS Plan 1 members who opted for the standard survivor benefit at retirement will receive an initial survivor benefit of 50 percent of the member's average final salary.
- We value the Basic Minimum COLA for PERS 1 and TRS 1 outside of our valuation soffware for members currently not receiving the benefit. The demographic assumptions we used to value this benefit provision were not updated for the 2007-12 Demographic Experience Study.


## Summary of Plan Provisions

The following tables present high-level summaries of the plan provisions and are not meant to be exhaustive lists. For complete details of plan provisions, please refer to the statutes shown in each table or contact the plan administrator, DRS. In the unlikely event that information contained in these tables conflicts with state law, the law takes precedence.

| Sumpary of Plan Provisions - PERS |
| :--- |

[^5]${ }^{* *}$ CPI: Urban Wage Earners \& Clerical Workers, Seattle-Tacoma-Bremerton, WA - All Items.

| Summary of Plan Provisions - TRS (Continued) |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Plan 1 | Plan 2 | Plan 3 |
| Effective Date of Plan | 3/1/38 | 10/1/77 | 7/1/96 |
| Date Closed to New Entrants | 9/30/77 | Open | Open |
| Statutory Reference | Chapter 41.32 RCW | Chapter 41.32 RCW | Chapter 41.32 RCW |
| Normal Retirement Eligibility (age/service) | 60/5, 55/25, Any Age/30 | 65/5 | 65/10 or vested |
| Accrued Benefit Formula | $2 \% \times$ YOS x AFC; Maximum $60 \%$ AFC | $2 \% \times$ YOS $\times$ AFC | $1 \% \times$ YOS x AFC; 0.25\% per month pre-retirement COLA with 20 years of service |
| Computation of AFC | Annual average earnable compensation for the two highest consecutive service credit years | Average compensation earnable for the highest 60 consecutive months | Average compensation earnable for the highest 60 consecutive months |
| Credited Service | Yearly, based on days worked each year | Monthly, based on number of months and hours worked during school year | Monthly, based on number of months and hours worked during school year |
| Vesting | 5 years | 5 years | 10 years ( 5 under select circumstances) |
| Vested Benefits Upon Termination | Refund of employee contributions plus interest, or deferred retirement allowance | Refund of employee contributions plus interest, or deferred retirement allowance | Refund of employee contributions plus investment earnings and deferred retirement allowance |
| Early Retirement Eligibility (age/service) | n/a | 55/20 | 55/10 |
| Early Retirement Reduction Factors | n/a | 3\% or alternate subsidized ERF with 30 YOS ( $5 \%$ if hired on or after $5 / 1 / 13$ ), otherwise actuarial | 3\% or alternate subsidized ERF with 30 YOS ( $5 \%$ if hired on or after $5 / 1 / 13$ ), otherwise actuarial |
| Disability Retirement Benefit | Accrued benefit | Accrued benefit, actuarially reduced | Accrued benefit, actuarially reduced |
| COLA | \$2.12 per month/YOS* on 7/1/14 | Lesser of CPI** or 3\% | Lesser of CPI** or 3\% |
| Minimum Benefit per Month | \$50.75* per YOS on 7/1/14, \$1,688.26* for select annuitants | n/a | n/a |
| Changes in Plan Provisions Since Last Valuation | n/a | n/a | Remove Annual Plan 3 Contribution Rate Change Provision (C 95 L 14) |
| Material Benefits not Included in this Valuation | We are not currently valuing portability with Seattle, Tacoma, \& Spokane | We are not currently valuing portability with Seattle, Tacoma, \& Spokane | We are not currently valuing portability with Seattle, Tacoma, \& Spokane |


|  | Summary of Plan Provisions - SERS <br> (Continued) |  |
| :--- | :---: | :---: | :---: |
| Plan 2 | $9 / 1 / 00$ | Plan 3 |

*CPI: Urban Wage Earners \& Clerical Workers, Seattle-Tacoma-Bremerton, WA - All Items.

| Summary of Plan Provision - PSERS <br> (Continued) |  |
| :--- | :---: |
| Effective Date of Plan | Plan 2 |


| Summary of Plan Provisions - LEOFF (Continued) |  |  |
| :---: | :---: | :---: |
|  | Plan 1 | Plan 2 |
| Effective Date of Plan | 3/1/70 | 10/1/77 |
| Date Closed to New Entrants | 9/30/77 | Open |
| Statutory Reference | Chapter 41.26 RCW | Chapter 41.26 RCW |
| Normal Retirement Eligibility (age/service) | 50/5 | 53/5 |
| Accrued Benefit Formula | $\begin{gathered} \text { Accrual } \%(1 \%, 1.5 \%, 2 \%) x \\ \text { YOS }(5,10,20) \text { xAS } \end{gathered}$ | $2 \% \times$ YOS x AFC; $0.25 \%$ per month pre-retirement COLA with 20 years of service |
| Computation of FAS/AFC | The basic salary attached to the position or rank at retirement if held for at least 12 months | Average compensation earnable for the highest 60 consecutive months |
| Credited Service | Monthly, based on hours worked each month | Monthly, based on hours worked each month |
| Vesting | 5 years | 5 years |
| Vested Benefits Upon Termination | Refund of employee contributions plus interest, or deferred retirement allowance | Refund of employee contributions (x $150 \%$ if 10 YOS) plus interest, or deferred retirement allowance |
| Early Retirement Eligibility (age/service) | n/a | 50/20 |
| Early Retirement Reduction Factors | n/a | 3\% ERF with 20 YOS |
| Disability Retirement Benefit | 50\% FAS, (max 60\% if children) | Non-duty: accrued benefit, actuarially reduced; Duty, occupational: accrued benefit without actuarial reduction, minimum 10\% of AFC; Duty, total: $70 \%$ of AFC with offsets for Social Securty and L\&I benefits, not to exceed $100 \%$ of AFC. |
| COLA | Full CPI* | Lesser of CPI* or 3\% |
| Minimum Benefit per Month per YOS | n/a | n/a |
| Changes in Plan Provisions Since Last Valuation | n/a | Annuity Purchase (C 91 L 14); Definition of Firefighter (C 145 L 14) |
| Material Benefits not Included in this Valuation | None | We are not currently valuing portability with Seattle, Tacoma, \& Spokane |


| Summary of Plan Provision - WSPRS (Continued) |  |  |
| :---: | :---: | :---: |
|  | Plan 1 | Plan 2 |
| Effective Date of Plan | 6/12/47 | 1/1/03 |
| Date Closed to New Entrants | 12/31/02 | Open |
| Statutory Reference | Chapter 43.43 RCW | Chapter 43.43 RCW |
| Normal Retirement Eligibility (age/service) | Age 55, Any Age/25, Mandatory at 65 | Age 55, Any Age/25, Mandatory at 65 |
| Accrued Benefit Formula | $2 \%$ x YOS x AFC; Maximum 75\% AFC | $\begin{gathered} 2 \% \times \text { YOS } \times \text { AFC; Maximum } 75 \% \\ \text { AFC } \end{gathered}$ |
| Computation of AFC | Average monthly salary of the highest two consecutive years | Average monthly salary of the highest 60 consecutive months |
| Credited Service | Monthly, based on hours worked each month | Monthly, based on hours worked each month |
| Vesting | 5 years | 5 years |
| Vested Benefits Upon Termination | Refund of employee contributions plus interest, or deferred retirement allowance | Refund of employee contributions plus interest, or deferred retirement allowance |
| Early Retirement Eligibility (age/service) | n/a | n/a |
| Early Retirement Reduction Factors | n/a | n/a |
| Disability Retirement Benefit | $50 \%$ comp with offsets, paid from WSPRS operational funds | $50 \%$ comp with offsets, paid from WSPRS operational funds |
| COLA | Lesser of CPI* or 3\% | Lesser of CPI* or 3\% |
| Minimum Benefit per Month per YOS** | \$31.91 on 1/1/14 | \$31.91 on 1/1/14 |
| Changes in Plan Provisions Since Last Valuation | n/a | n/a |
| Material Benefits not Included in this Valuation | We are not currently valuing portability with Seattle, Tacoma, \& Spokane | We are not currently valuing portability with Seattle, Tacoma, \& Spokane |

Age/Service Distributions

| Age and Service Distribution of Active Members (Number of Actives and Average Annual Salary) PERS Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 25-29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 30-34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 35-39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 40-44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 45-49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 3 | 2 | 6 | 2 | 5 | 0 | 24 |
|  | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$26,624 | \$69,860 | \$68,814 | \$67,058 | \$71,929 | \$65,568 | \$0 | \$59,923 |
| 55-59 | 5 | 14 | 5 | 10 | 10 | 123 | 144 | 186 | 206 | 190 | 123 | 346 | 18 | 1,380 |
|  | \$30,975 | \$36,525 | \$39,218 | \$32,628 | \$52,754 | \$45,812 | \$44,404 | \$49,530 | \$51,851 | \$55,782 | \$62,765 | \$63,118 | \$70,706 | \$54,398 |
| 60-64 | 15 | 23 | 26 | 25 | 31 | 223 | 267 | 332 | 450 | 411 | 274 | 605 | 201 | 2,883 |
|  | \$40,285 | \$41,372 | \$41,019 | \$44,222 | \$47,902 | \$46,035 | \$50,381 | \$49,583 | \$54,033 | \$57,232 | \$63,638 | \$66,657 | \$62,887 | \$56,758 |
| 65-69 | 5 | 12 | 13 | 7 | 14 | 112 | 109 | 108 | 140 | 143 | 89 | 195 | 137 | 1,084 |
|  | \$35,977 | \$42,556 | \$47,024 | \$41,512 | \$39,350 | \$46,692 | \$52,442 | \$54,802 | \$59,600 | \$62,015 | \$63,688 | \$64,169 | \$67,049 | \$58,659 |
| 70 \& Over | 0 | 5 | 2 | 6 | 2 | 34 | 29 | 19 | 31 | 31 | 20 | 58 | 45 | 282 |
|  | \$0 | \$63,990 | \$28,734 | \$32,912 | \$20,483 | \$33,850 | \$47,142 | \$52,539 | \$53,757 | \$54,103 | \$52,723 | \$44,453 | \$66,617 | \$50,022 |
| Total | 25 | 54 | 46 | 49 | 57 | 492 | 554 | 648 | 829 | 781 | 508 | 1,209 | 401 | 5,653 |
|  | \$37,561 | \$42,473 | \$41,986 | \$40,891 | \$45,690 | \$45,287 | \$48,849 | \$50,618 | \$54,457 | \$57,706 | \$63,038 | \$64,173 | \$65,078 | \$56,224 |
| Average: | Age | 62.2 | Number of Participants: |  |  | Vested | 5,389 |  | Males | 2,089 |  | arly Retire | ment Eligible: | 0 |
|  | Service | 24.5 |  |  |  | ot Vested | 264 |  | Females | 3,564 |  | mal Retire | ment Eligible: | 4,753 |

*Annual Salary omitted for privacy reasons.
Note: Numbers of participants eligible for early and normal retirement are estimates only.

| Age and Service Distribution of Active Members (Number of Actives and Average Annual Salary) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PERS Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 820 | 649 | 231 | 93 | 47 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,882 |
|  | \$33,518 | \$31,869 | \$35,741 | \$35,569 | \$38,376 | \$39,017 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$33,567 |
| 25-29 | 905 | 1,328 | 791 | 600 | 446 | 1,367 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 5,468 |
|  | \$37,494 | \$38,028 | \$42,169 | \$45,256 | \$46,443 | \$49,246 | \$52,146 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$42,903 |
| 30-34 | 717 | 1,152 | 751 | 652 | 566 | 3,811 | 1,074 | 37 | 0 | 0 | 0 | 0 | 0 | 8,760 |
|  | \$39,187 | \$43,269 | \$47,060 | \$48,140 | \$53,154 | \$53,712 | \$56,319 | \$57,022 | \$0 | \$0 | \$0 | \$0 | \$0 | \$50,462 |
| 35-39 | 581 | 865 | 597 | 511 | 459 | 3,793 | 3,180 | 841 | 15 | 0 | 0 | 0 | 0 | 10,842 |
|  | \$40,831 | \$44,680 | \$50,348 | \$50,767 | \$55,532 | \$56,926 | \$60,622 | \$60,481 | \$64,045 | \$0 | \$0 | \$0 | \$0 | \$55,745 |
| 40-44 | 523 | 799 | 617 | 522 | 426 | 3,694 | 3,829 | 2,588 | 802 | 13 | 0 | 0 | 0 | 13,813 |
|  | \$40,305 | \$44,163 | \$49,747 | \$54,158 | \$52,230 | \$57,383 | \$61,716 | \$64,438 | \$64,564 | \$60,807 | \$0 | \$0 | \$0 | \$58,293 |
| 45-49 | 401 | 670 | 528 | 427 | 360 | 3,418 | 3,680 | 2,919 | 2,377 | 653 | 14 | 0 | 0 | 15,447 |
|  | \$40,859 | \$45,524 | \$50,710 | \$53,045 | \$50,747 | \$56,533 | \$61,890 | \$64,709 | \$67,164 | \$64,138 | \$62,273 | \$0 | \$0 | \$60,002 |
| 50-54 | 430 | 643 | 487 | 447 | 434 | 3,419 | 3,759 | 3,200 | 3,295 | 2,155 | 838 | 38 | 0 | 19,145 |
|  | \$39,488 | \$47,503 | \$49,261 | \$53,872 | \$54,970 | \$56,544 | \$60,122 | \$63,566 | \$68,004 | \$70,103 | \$65,683 | \$64,075 | \$0 | \$61,364 |
| 55-59 | 318 | 529 | 380 | 382 | 351 | 2,856 | 3,482 | 3,319 | 3,593 | 2,845 | 1,863 | 272 | 0 | 20,190 |
|  | \$43,188 | \$51,091 | \$48,930 | \$53,811 | \$54,956 | \$55,042 | \$60,178 | \$62,374 | \$67,054 | \$70,672 | \$72,895 | \$70,685 | \$0 | \$62,901 |
| 60-64 | 148 | 290 | 218 | 234 | 212 | 1,961 | 2,453 | 2,539 | 2,963 | 2,249 | 1,323 | 248 | 0 | 14,838 |
|  | \$41,363 | \$48,536 | \$46,766 | \$51,134 | \$53,726 | \$55,099 | \$58,634 | \$61,707 | \$64,944 | \$68,339 | \$71,862 | \$71,471 | \$0 | \$62,085 |
| 65-69 | 48 | 65 | 72 | 57 | 85 | 712 | 791 | 766 | 846 | 636 | 333 | 39 | 0 | 4,450 |
|  | \$35,747 | \$41,308 | \$45,818 | \$48,098 | \$48,308 | \$54,566 | \$58,971 | \$61,283 | \$62,294 | \$68,201 | \$68,637 | \$72,897 | \$0 | \$60,396 |
| 70 \& Over | 16 | 23 | 27 | 30 | 21 | 171 | 178 | 144 | 133 | 100 | 61 | 12 | 0 | 916 |
|  | \$50,522 | \$46,844 | \$35,409 | \$45,461 | \$41,740 | \$43,428 | \$51,682 | \$53,179 | \$55,792 | \$59,661 | \$63,898 | \$65,958 | \$0 | \$51,792 |
| Total | 4,907 | 7,013 | 4,699 | 3,955 | 3,407 | 25,244 | 22,457 | 16,353 | 14,024 | 8,651 | 4,432 | 609 | 0 | 115,751 |
|  | \$38,732 | \$42,902 | \$47,141 | \$50,422 | \$52,284 | \$55,444 | \$60,300 | \$63,005 | \$66,310 | \$69,107 | \$70,746 | \$70,641 | \$0 | \$58,388 |
| Average: | Age | 48.4 | Number of Participants: |  |  | Vested | 89,387 |  | Males | 55,563 |  | rly Retirem | ment Eligible: | 15,495 |
|  | Service | 12.6 |  |  |  | ot Vested | 26,364 |  | Females | 60,188 |  | al Retirem | nent Eligible: | 4,932 |

*Annual Salary omitted for privacy reasons.
Note: Numbers of participants eligible for early and normal retirement are estimates only.

| Age and Service Distribution of Active Members (Number of Actives and Average Annual Salary) (Continued) PERS Plan 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 569 | 468 | 145 | 53 | 19 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,270 |
|  | \$31,603 | \$29,245 | \$32,336 | \$34,562 | \$32,982 | \$40,932 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$31,080 |
| 25-29 | 475 | 795 | 496 | 345 | 220 | 629 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 2,968 |
|  | \$34,939 | \$37,365 | \$39,808 | \$42,508 | \$43,465 | \$46,728 | \$42,615 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$40,434 |
| 30-34 | 370 | 543 | 407 | 331 | 261 | 1,813 | 202 | 0 | 0 | 0 | 0 | 0 | 0 | 3,927 |
|  | \$37,211 | \$41,791 | \$45,162 | \$47,420 | \$49,426 | \$53,675 | \$56,012 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$48,909 |
| 35-39 | 237 | 418 | 275 | 228 | 194 | 1,581 | 522 | 92 | 3 | 0 | 0 | 0 | 0 | 3,550 |
|  | \$38,217 | \$42,408 | \$44,652 | \$48,292 | \$53,504 | \$55,659 | \$61,081 | \$66,639 | \$53,106 | \$0 | \$0 | \$0 | \$0 | \$52,570 |
| 40-44 | 204 | 328 | 238 | 192 | 158 | 1,340 | 588 | 399 | 128 | 3 | 0 | 0 | 0 | 3,578 |
|  | \$41,126 | \$44,116 | \$46,979 | \$47,929 | \$51,014 | \$58,081 | \$61,820 | \$67,925 | \$67,467 | \$91,286 | \$0 | \$0 | \$0 | \$56,315 |
| 45-49 | 149 | 256 | 199 | 163 | 142 | 1,114 | 461 | 413 | 524 | 100 | 2 | 0 | 0 | 3,523 |
|  | \$39,396 | \$42,286 | \$45,967 | \$50,744 | \$52,495 | \$56,177 | \$62,666 | \$68,842 | \$71,843 | \$73,450 | \$76,041 | \$0 | \$0 | \$58,647 |
| 50-54 | 143 | 234 | 160 | 156 | 148 | 1,044 | 481 | 394 | 630 | 442 | 126 | 6 | 0 | 3,964 |
|  | \$40,962 | \$42,597 | \$46,806 | \$48,433 | \$48,417 | \$56,510 | \$61,366 | \$67,170 | \$72,016 | \$74,832 | \$72,838 | \$69,994 | \$0 | \$60,812 |
| 55-59 | 102 | 170 | 114 | 117 | 105 | 887 | 404 | 346 | 589 | 484 | 292 | 43 | 0 | 3,653 |
|  | \$39,866 | \$44,240 | \$44,161 | \$53,193 | \$54,104 | \$55,166 | \$59,567 | \$63,305 | \$68,498 | \$75,034 | \$73,499 | \$75,909 | \$0 | \$61,542 |
| 60-64 | 62 | 113 | 75 | 65 | 67 | 515 | 272 | 217 | 338 | 280 | 146 | 28 | 0 | 2,178 |
|  | \$38,283 | \$45,206 | \$50,684 | \$48,317 | \$51,468 | \$54,714 | \$60,070 | \$62,419 | \$64,679 | \$68,960 | \$71,352 | \$73,783 | \$0 | \$59,499 |
| 65-69 | 20 | 20 | 35 | 29 | 16 | 193 | 73 | 49 | 72 | 48 | 20 | 2 | 0 | 577 |
|  | \$41,874 | \$41,404 | \$46,763 | \$52,556 | \$73,539 | \$55,011 | \$60,883 | \$58,769 | \$65,593 | \$63,702 | \$69,479 | \$74,144 | \$0 | \$57,647 |
| 70 \& Over | 3 | 6 | 10 | 12 | 10 | 38 | 17 | 5 | 6 | 5 | 2 | 0 | 0 | 114 |
|  | \$27,107 | \$46,183 | \$35,605 | \$37,379 | \$38,823 | \$56,449 | \$49,791 | \$73,013 | \$59,790 | \$80,662 | \$60,433 | \$0 | \$0 | \$50,796 |
| Total | 2,334 | 3,351 | 2,154 | 1,691 | 1,340 | 9,170 | 3,028 | 1,915 | 2,290 | 1,362 | 588 | 79 | 0 | 29,302 |
|  | \$36,367 | \$39,632 | \$43,519 | \$47,055 | \$49,883 | \$55,031 | \$60,763 | \$66,226 | \$69,476 | \$73,260 | \$72,652 | \$74,662 | \$0 | \$53,948 |
| Average: | Age | 43.6 | Number of Participants: |  |  | Vested | 12,297 |  | Males | 13,723 |  | rly Retire | ment Eligible: | 3,522 |
|  | Service | 8.7 |  |  |  | t Vested | 17,005 |  | Females | 15,579 |  | al Retire | ment Eligible: | 511 |

*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.

| Age and Service Distribution of Active Members (Number of Actives and Average Annual Salary) (Continued) TRS Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 25-29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 30-34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 35-39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 40-44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 45-49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 0 | 0 | 2 | 1 | 1 | 8 | 15 | 20 | 25 | 46 | 56 | 129 | 0 | 303 |
|  | \$0 | \$0 | \$65,292 | * | * | \$63,022 | \$68,076 | \$69,552 | \$70,593 | \$76,872 | \$78,532 | \$81,286 | \$0 | \$77,120 |
| 60-64 | 0 | 0 | 1 | 1 | 2 | 31 | 63 | 92 | 185 | 219 | 224 | 512 | 109 | 1,439 |
|  | \$0 | \$0 | * | * | \$83,088 | \$56,722 | \$65,820 | \$68,846 | \$74,764 | \$75,918 | \$79,588 | \$77,779 | \$81,231 | \$76,096 |
| 65-69 | 0 | 1 | 1 | 0 | 0 | 14 | 23 | 37 | 82 | 87 | 72 | 114 | 124 | 555 |
|  | \$0 | * | * | \$0 | \$0 | \$57,809 | \$65,862 | \$67,401 | \$73,489 | \$77,211 | \$85,015 | \$79,588 | \$81,105 | \$77,394 |
| 70 \& Over | 0 | 0 | 0 | 1 | 1 | 6 | 5 | 9 | 11 | 7 | 9 | 14 | 33 | 96 |
|  | \$0 | \$0 | \$0 | * | * | \$78,923 | \$73,460 | \$72,182 | \$76,051 | \$76,965 | \$69,398 | \$74,949 | \$81,650 | \$76,644 |
| Total | 0 | 1 | 4 | 3 | 4 | 59 | 106 | 158 | 303 | 359 | 361 | 769 | 266 | 2,393 |
|  | \$0 | * | \$61,773 | \$58,177 | \$76,041 | \$60,092 | \$66,509 | \$68,787 | \$74,122 | \$76,374 | \$80,253 | \$78,584 | \$81,224 | \$76,549 |
| Average: | Age | 63.0 | Number of Participants: |  |  | Vested | 2,379 |  | Males | 550 |  | rly Retirem | nent Eligible: | 0 |
|  | Service | 30.1 |  |  |  | ot Vested | 14 |  | Females | 1,843 |  | nal Retire | nent Eligible: | 2,313 |

*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.

| Age and Service Distribution of Active Members (Number of Actives and Average Annual Salary) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 21 | 146 | 28 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 197 |
|  | \$47,560 | \$48,350 | \$41,855 | * | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$47,394 |
| 25-29 | 49 | 677 | 435 | 370 | 180 | 267 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,978 |
|  | \$54,249 | \$52,285 | \$46,093 | \$46,275 | \$46,932 | \$48,789 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$48,889 |
| 30-34 | 34 | 394 | 270 | 282 | 181 | 526 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,687 |
|  | \$54,790 | \$54,760 | \$49,610 | \$49,860 | \$51,078 | \$51,350 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$51,659 |
| 35-39 | 29 | 178 | 147 | 165 | 101 | 273 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 893 |
|  | \$56,511 | \$55,928 | \$49,307 | \$50,523 | \$53,305 | \$54,107 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$53,005 |
| 40-44 | 16 | 167 | 104 | 89 | 81 | 237 | 52 | 224 | 46 | 0 | 0 | 0 | 0 | 1,016 |
|  | \$52,853 | \$54,494 | \$51,495 | \$54,864 | \$51,403 | \$55,060 | \$69,993 | \$77,244 | \$76,767 | \$0 | \$0 | \$0 | \$0 | \$60,897 |
| 45-49 | 8 | 109 | 97 | 87 | 88 | 256 | 143 | 265 | 266 | 21 | 0 | 0 | 0 | 1,340 |
|  | \$51,301 | \$58,290 | \$52,292 | \$52,573 | \$54,334 | \$57,367 | \$66,445 | \$75,035 | \$76,152 | \$78,656 | \$0 | \$0 | \$0 | \$65,053 |
| 50-54 | 20 | 100 | 71 | 82 | 62 | 253 | 183 | 271 | 323 | 181 | 22 | 0 | 0 | 1,568 |
|  | \$62,216 | \$55,615 | \$54,389 | \$58,879 | \$54,591 | \$57,869 | \$67,067 | \$73,632 | \$74,721 | \$77,723 | \$79,803 | \$0 | \$0 | \$67,415 |
| 55-59 | 10 | 47 | 53 | 41 | 44 | 175 | 152 | 319 | 387 | 231 | 187 | 24 | 0 | 1,670 |
|  | \$64,844 | \$64,010 | \$52,917 | \$58,042 | \$59,252 | \$59,140 | \$67,979 | \$72,937 | \$74,126 | \$77,603 | \$77,394 | \$83,351 | \$0 | \$70,948 |
| 60-64 | 4 | 23 | 23 | 19 | 22 | 89 | 79 | 236 | 406 | 205 | 132 | 15 | 0 | 1,253 |
|  | \$55,749 | \$68,258 | \$59,920 | \$57,567 | \$71,758 | \$65,614 | \$68,946 | \$73,151 | \$75,530 | \$75,049 | \$77,242 | \$74,873 | \$0 | \$73,235 |
| 65-69 | 0 | 3 | 4 | 7 | 6 | 19 | 18 | 87 | 165 | 62 | 37 | 7 | 0 | 415 |
|  | \$0 | \$63,612 | \$48,602 | \$65,916 | \$84,558 | \$60,286 | \$76,621 | \$73,740 | \$74,200 | \$75,767 | \$82,855 | \$79,257 | \$0 | \$74,349 |
| 70 \& Over | 0 | 2 | 1 | 2 | 1 | 2 | 6 | 3 | 20 | 12 | 4 | 1 | 0 | 54 |
|  | \$0 | \$62,651 | * | \$59,928 | * | \$57,863 | \$62,410 | \$73,018 | \$74,816 | \$76,253 | \$67,988 | * | \$0 | \$70,720 |
| Total | 191 | 1,846 | 1,233 | 1,145 | 766 | 2,098 | 633 | 1,405 | 1,613 | 712 | 382 | 47 | 0 | 12,071 |
|  | \$55,133 | \$54,115 | \$49,134 | \$50,571 | \$52,426 | \$54,669 | \$67,848 | \$74,239 | \$75,024 | \$76,747 | \$77,911 | \$79,806 | \$0 | \$61,320 |
| Average: | Age | 44.5 | Number of Participants: |  |  | Vested | 6,062 |  | Males | 2,881 |  | rly Retirem | nent Eligible: | 1,655 |
|  | Service | 10.1 |  |  |  | ot Vested | 6,009 |  | Females | 9,190 |  | nal Retirem | nent Eligible: | 445 |

*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.

| Age and Service Distribution of Active Members (Number of Actives and Average Annual Salary) (Continued) TRS Plan 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 9 | 152 | 35 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 |
|  | \$46,797 | \$47,485 | \$42,410 | \$39,473 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$46,406 |
| 25-29 | 64 | 634 | 437 | 397 | 241 | 503 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,276 |
|  | \$52,289 | \$51,702 | \$46,246 | \$47,594 | \$47,973 | \$49,678 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$49,112 |
| 30-34 | 39 | 353 | 294 | 342 | 316 | 3,674 | 552 | 0 | 0 | 0 | 0 | 0 | 0 | 5,570 |
|  | \$61,520 | \$54,100 | \$50,083 | \$50,245 | \$51,180 | \$55,545 | \$61,754 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$55,249 |
| 35-39 | 26 | 198 | 189 | 200 | 184 | 2,783 | 3,617 | 361 | 0 | 0 | 0 | 0 | 0 | 7,558 |
|  | \$66,619 | \$55,555 | \$52,087 | \$53,413 | \$53,213 | \$58,529 | \$67,441 | \$77,878 | \$0 | \$0 | \$0 | \$0 | \$0 | \$63,242 |
| 40-44 | 32 | 176 | 132 | 131 | 135 | 1,879 | 2,794 | 2,605 | 325 | 1 | 0 | 0 | 0 | 8,210 |
|  | \$59,405 | \$57,544 | \$56,517 | \$54,212 | \$52,693 | \$59,710 | \$68,509 | \$77,856 | \$79,834 | * | \$0 | \$0 | \$0 | \$68,959 |
| 45-49 | 32 | 131 | 106 | 90 | 97 | 1,273 | 1,604 | 1,712 | 1,891 | 233 | 0 | 0 | 0 | 7,169 |
|  | \$65,859 | \$56,568 | \$51,058 | \$52,089 | \$52,585 | \$60,054 | \$68,591 | \$75,940 | \$79,128 | \$79,809 | \$0 | \$0 | \$0 | \$71,059 |
| 50-54 | 10 | 66 | 67 | 75 | 67 | 1,047 | 1,476 | 1,188 | 1,561 | 1,489 | 262 | 0 | 0 | 7,308 |
|  | \$75,767 | \$54,711 | \$52,878 | \$54,819 | \$55,881 | \$59,497 | \$68,347 | \$75,460 | \$77,931 | \$80,212 | \$82,779 | \$0 | \$0 | \$72,709 |
| 55-59 | 15 | 47 | 33 | 38 | 42 | 768 | 1,334 | 1,162 | 1,377 | 1,140 | 1,257 | 150 | 0 | 7,363 |
|  | \$79,190 | \$63,819 | \$63,112 | \$55,572 | \$55,386 | \$60,032 | \$68,024 | \$75,044 | \$76,828 | \$77,938 | \$79,656 | \$83,191 | \$0 | \$73,612 |
| 60-64 | 8 | 20 | 13 | 24 | 18 | 417 | 845 | 875 | 1,037 | 694 | 590 | 116 | 0 | 4,657 |
|  | \$66,727 | \$60,576 | \$53,256 | \$58,057 | \$58,095 | \$62,302 | \$68,638 | \$73,372 | \$75,627 | \$78,149 | \$79,024 | \$82,373 | \$0 | \$73,415 |
| 65-69 | 2 | 0 | 2 | 6 | 5 | 97 | 220 | 216 | 246 | 171 | 94 | 17 | 0 | 1,076 |
|  | \$78,245 | \$0 | \$46,964 | \$56,180 | \$67,645 | \$65,867 | \$69,491 | \$74,714 | \$74,506 | \$78,775 | \$79,060 | \$83,129 | \$0 | \$73,778 |
| 70 \& Over | 0 | 0 | 1 | 1 | 1 | 13 | 24 | 12 | 17 | 7 | 7 | 1 | 0 | 84 |
|  | \$0 | \$0 | * | * | * | \$58,775 | \$72,000 | \$68,190 | \$67,876 | \$78,298 | \$69,705 | * | \$0 | \$68,070 |
| Total | 237 | 1,777 | 1,309 | 1,308 | 1,106 | 12,454 | 12,466 | 8,131 | 6,454 | 3,735 | 2,210 | 284 | 0 | 51,471 |
|  | \$61,364 | \$53,716 | \$50,115 | \$51,006 | \$51,745 | \$57,983 | \$67,872 | \$76,121 | \$77,615 | \$79,040 | \$79,801 | \$82,823 | \$0 | \$67,664 |
| Average: | Age | 46.1 | Number of Participants: |  |  | Vested | 35,357 |  | Males | 14,886 |  | rly Retirem | nent Eligible: | 10,829 |
|  | Service | 13.7 |  |  |  | ot Vested | 16,114 |  | Females | 36,585 |  | mal Retirem | nent Eligible: | 1,141 |



*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.

*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.

| Age and Service Distribution of Active Members (Number of Actives and Average Annual Salary) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 38 | 39 | 20 | 8 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 107 |
|  | \$38,683 | \$39,163 | \$46,903 | \$49,335 | \$0 | \$55,019 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$41,496 |
| 25-29 | 85 | 130 | 79 | 45 | 42 | 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 611 |
|  | \$39,439 | \$41,583 | \$47,665 | \$49,893 | \$55,098 | \$54,254 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$48,382 |
| 30-34 | 50 | 82 | 76 | 44 | 61 | 489 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 802 |
|  | \$39,673 | \$42,911 | \$49,034 | \$50,879 | \$53,239 | \$55,354 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$52,099 |
| 35-39 | 19 | 51 | 44 | 37 | 40 | 458 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 649 |
|  | \$40,559 | \$45,211 | \$50,562 | \$51,333 | \$55,326 | \$58,911 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$56,078 |
| 40-44 | 33 | 42 | 26 | 35 | 41 | 561 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 738 |
|  | \$40,962 | \$42,832 | \$46,511 | \$55,606 | \$56,814 | \$61,585 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$58,516 |
| 45-49 | 19 | 25 | 28 | 29 | 29 | 537 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 667 |
|  | \$39,865 | \$44,690 | \$49,231 | \$58,148 | \$56,197 | \$62,812 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$60,419 |
| 50-54 | 11 | 18 | 21 | 20 | 17 | 435 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 522 |
|  | \$40,742 | \$46,962 | \$50,899 | \$50,948 | \$54,410 | \$64,403 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$61,919 |
| 55-59 | 4 | 8 | 10 | 11 | 12 | 280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 325 |
|  | \$40,236 | \$58,434 | \$47,581 | \$50,353 | \$53,529 | \$62,822 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$61,202 |
| 60-64 | 1 | 1 | 0 | 4 | 5 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 76 |
|  | * | * | \$0 | \$56,848 | \$48,168 | \$58,181 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$57,015 |
| 65-69 | 1 | 0 | 1 | 3 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
|  | * | \$0 | * | \$56,163 | \$0 | \$53,715 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$53,702 |
| 70 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 261 | 396 | 305 | 236 | 247 | 3,068 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,513 |
|  | \$39,789 | \$42,989 | \$48,666 | \$52,454 | \$54,826 | \$60,266 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$56,075 |
| Average: | Age | 40.4 | Number of Participants: |  |  | Vested | 2,784 |  | Males | 3,388 |  | Retirem | nent Eligible: | 209 |
|  | Service | 4.8 |  |  |  | ot Vested | 1,729 |  | emales | 1,125 |  | Retirem | nent Eligible: | 12 |

*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.

| Age and Service Distribution of Active Law Enforcement Officers (Number of Actives and Average Annual Salary) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LEOFF Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 25-29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 30-34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 35-39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 40-44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 45-49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 13 | 0 | 18 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$76,682 | \$78,073 | \$88,451 | \$0 | \$85,414 |
| 60-64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 17 | 7 | 27 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$82,021 | * | \$96,534 | \$101,965 | \$96,623 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 15 | 21 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$108,720 | \$103,788 | \$105,197 |
| 70 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | * |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 36 | 23 | 67 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$79,351 | \$81,036 | \$95,646 | \$103,209 | \$96,397 |
| Average: | Age | 62.4 | Number of Participants: |  |  | sted | 67 |  | Males | 65 |  | arly Retirem | ment Eligible: | N/A |
|  | vice | 38.0 |  |  |  | sted | 0 |  | males | 2 |  | mal Retirem | ment Eligible: | 67 |

*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.

$$
4: \text { Appendices }
$$

| Age and Service Distribution of Active Fire Fighters (Number of Actives and Average Annual Salary) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LEOFF Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 25-29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 30-34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 35-39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 40-44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 45-49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 21 | 0 | 22 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$115,024 | \$0 | \$115,753 |
| 60-64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 14 | 44 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$102,419 | \$114,846 | \$106,373 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 9 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$89,270 | \$124,519 | \$111,676 |
| 70 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | * |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 54 | 20 | 76 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$122,869 | \$106,590 | \$116,025 | \$109,501 |
| Average: | Age | 61.3 | Number of Participants: |  |  | sted | 76 |  | Males | 76 |  | arly Retire | ment Eligible: | N/A |
|  | Service | 38.3 |  |  |  | sted | 0 |  | Females | 0 |  | mal Retire | ment Eligible: | 76 |

*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.

| Age and Service Distribution of Active Law Enforcement Officers (Number of Actives and Average Annual Salary) <br> (Continued) <br> LEOFF Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 25 | 20 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
|  | \$54,455 | \$58,993 | \$79,863 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$59,621 |
| 25-29 | 82 | 82 | 53 | 43 | 61 | 198 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 519 |
|  | \$57,855 | \$60,910 | \$66,635 | \$72,571 | \$78,977 | \$83,268 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$72,631 |
| 30-34 | 40 | 57 | 48 | 73 | 77 | 707 | 89 | 0 | 0 | 0 | 0 | 0 | 0 | 1,091 |
|  | \$57,595 | \$64,958 | \$70,367 | \$78,792 | \$80,393 | \$86,694 | \$86,995 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$82,825 |
| 35-39 | 25 | 39 | 32 | 34 | 43 | 530 | 537 | 121 | 0 | 0 | 0 | 0 | 0 | 1,361 |
|  | \$57,554 | \$65,380 | \$72,674 | \$79,028 | \$82,412 | \$86,048 | \$91,745 | \$96,251 | \$0 | \$0 | \$0 | \$0 | \$0 | \$87,483 |
| 40-44 | 23 | 23 | 21 | 20 | 28 | 363 | 579 | 674 | 127 | 0 | 0 | 0 | 0 | 1,858 |
|  | \$57,507 | \$63,847 | \$77,162 | \$72,068 | \$82,099 | \$83,547 | \$90,665 | \$95,883 | \$105,782 | \$0 | \$0 | \$0 | \$0 | \$90,976 |
| 45-49 | 3 | 10 | 8 | 11 | 7 | 153 | 271 | 501 | 620 | 129 | 0 | 0 | 0 | 1,713 |
|  | \$72,096 | \$60,014 | \$77,919 | \$82,520 | \$73,134 | \$84,378 | \$92,392 | \$98,112 | \$102,546 | \$107,201 | \$0 | \$0 | \$0 | \$97,705 |
| 50-54 | 1 | 5 | 2 | 6 | 5 | 61 | 123 | 199 | 397 | 409 | 81 | 1 | 0 | 1,290 |
|  | * | \$70,847 | \$66,748 | \$82,112 | \$95,635 | \$79,085 | \$91,232 | \$94,504 | \$102,196 | \$110,032 | \$112,354 | * | \$0 | \$101,685 |
| 55-59 | 4 | 0 | 5 | 5 | 1 | 28 | 38 | 84 | 134 | 192 | 218 | 26 | 0 | 735 |
|  | \$68,858 | \$0 | \$77,944 | \$121,683 | * | \$83,484 | \$83,741 | \$92,065 | \$98,747 | \$106,422 | \$115,393 | \$116,968 | \$0 | \$104,151 |
| 60-64 | 0 | 1 | 1 | 2 | 0 | 12 | 14 | 34 | 36 | 63 | 90 | 21 | 0 | 274 |
|  | \$0 | * | * | \$74,439 | \$0 | \$84,359 | \$94,766 | \$86,439 | \$95,420 | \$98,510 | \$109,201 | \$106,827 | \$0 | \$99,723 |
| 65-69 | 0 | 1 | 0 | 0 | 0 | 3 | 4 | 3 | 5 | 12 | 9 | 1 | 0 | 38 |
|  | \$0 | * | \$0 | \$0 | \$0 | \$69,316 | \$80,458 | \$74,196 | \$68,637 | \$97,354 | \$100,336 | * | \$0 | \$88,380 |
| 70 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$117,743 |
| Total | 203 | 238 | 177 | 194 | 222 | 2,055 | 1,656 | 1,616 | 1,319 | 805 | 399 | 49 | 0 | 8,933 |
|  | \$57,764 | \$63,002 | \$71,630 | \$78,136 | \$81,092 | \$85,161 | \$91,010 | \$95,994 | \$102,043 | \$107,627 | \$113,047 | \$112,710 | \$0 | \$92,384 |
| Average: | Age | 43.4 | Number of Participants |  |  | Vested | 7,692 |  | Males | 8,085 |  | arly Retirem | ment Eligible: | 560 |
|  | Service | 14.4 |  |  |  | ot Vested | 1,241 |  | Females | 848 |  | mal Retirem | ment Eligible: | 1,470 |

*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.

| Age and Service Distribution of Active Fire Fighters <br> (Number of Actives and Average Annual Salary) <br> (Continued) <br> LEOFF Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 21 | 18 | 6 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
|  | \$57,006 | \$60,915 | \$63,868 | \$77,285 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$59,779 |
| 25-29 | 26 | 67 | 70 | 45 | 69 | 173 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 450 |
|  | \$60,589 | \$62,324 | \$71,166 | \$73,586 | \$80,170 | \$86,686 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$76,828 |
| 30-34 | 36 | 57 | 57 | 47 | 69 | 543 | 126 | 0 | 0 | 0 | 0 | 0 | 0 | 935 |
|  | \$58,464 | \$62,967 | \$70,791 | \$78,546 | \$82,532 | \$90,222 | \$95,797 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$85,750 |
| 35-39 | 16 | 18 | 29 | 35 | 54 | 404 | 506 | 116 | 0 | 0 | 0 | 0 | 0 | 1,178 |
|  | \$58,046 | \$59,660 | \$72,205 | \$78,174 | \$82,303 | \$90,328 | \$97,614 | \$102,840 | \$0 | \$0 | \$0 | \$0 | \$0 | \$92,607 |
| 40-44 | 8 | 9 | 16 | 12 | 28 | 254 | 522 | 536 | 152 | 1 | 0 | 0 | 0 | 1,538 |
|  | \$56,270 | \$61,552 | \$71,402 | \$81,522 | \$81,199 | \$90,471 | \$98,623 | \$104,876 | \$108,290 | * | \$0 | \$0 | \$0 | \$99,238 |
| 45-49 | 2 | 5 | 11 | 6 | 14 | 113 | 243 | 380 | 478 | 123 | 0 | 0 | 0 | 1,375 |
|  | \$54,002 | \$59,306 | \$71,874 | \$77,208 | \$82,978 | \$91,247 | \$96,538 | \$106,251 | \$110,269 | \$119,233 | \$0 | \$0 | \$0 | \$104,974 |
| 50-54 | 3 | 5 | 3 | 5 | 1 | 34 | 116 | 198 | 387 | 346 | 141 | 3 | 0 | 1,242 |
|  | \$110,536 | \$75,344 | \$95,594 | \$106,877 | * | \$85,169 | \$94,529 | \$102,091 | \$110,815 | \$115,963 | \$123,928 | \$129,684 | \$0 | \$109,982 |
| 55-59 | 0 | 5 | 3 | 1 | 4 | 13 | 42 | 82 | 177 | 185 | 221 | 18 | 0 | 751 |
|  | \$0 | \$91,783 | \$136,552 | * | \$120,940 | \$101,365 | \$96,480 | \$101,136 | \$106,709 | \$116,076 | \$124,188 | \$130,313 | \$0 | \$113,503 |
| 60-64 | 1 | 1 | 1 | 1 | 1 | 9 | 21 | 22 | 38 | 36 | 76 | 7 | 0 | 214 |
|  | * | * | * | * | * | \$83,108 | \$108,736 | \$94,894 | \$109,230 | \$113,364 | \$119,526 | \$110,949 | \$0 | \$109,910 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 6 | 3 | 7 | 2 | 0 | 22 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$104,784 | * | \$105,688 | \$117,922 | \$108,243 | \$105,864 | \$0 | \$109,958 |
| 70 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 |  |
| Total | 113 | 185 | 196 | 154 | 241 | 1,543 | 1,579 | 1,335 | 1,238 | 694 | 446 | 30 | 0 | 7,754 |
|  | \$59,736 | \$63,084 | \$72,325 | \$77,896 | \$82,357 | \$89,910 | \$97,542 | \$104,315 | \$109,634 | \$116,416 | \$123,046 | \$124,102 | \$0 | \$99,506 |
| Average: | Age | 43.6 | Number of Participants: |  |  | Vested | 6,697 |  | Males | 7,299 |  | arly Retire | ment Eligible: | 556 |
|  | Service | 14.9 |  |  |  | Not Vested | 1,057 |  | Females | 455 |  | mal Retire | ment Eligible: | 1,406 |

*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.
4: Appendices

| Age and Service Distribution of Active Members (Number of Actives and Average Annual Salary) (Continued) WSPRS Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 25-29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 30-34 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$73,638 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$73,638 |
| 35-39 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 20 | 0 | 0 | 0 | 0 | 0 | 84 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$77,737 | \$76,477 | \$0 | \$0 | \$0 | \$0 | \$0 | \$77,437 |
| 40-44 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 109 | 36 | 0 | 0 | 0 | 0 | 196 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$76,325 | \$80,609 | \$89,517 | \$0 | \$0 | \$0 | \$0 | \$81,131 |
| 45-49 | 0 | 0 | 0 | 0 | 0 | 1 | 23 | 60 | 117 | 17 | 1 | 0 | 0 | 219 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$75,015 | \$79,802 | \$86,748 | \$93,389 | * | \$0 | \$0 | \$84,068 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 16 | 42 | 35 | 5 | 0 | 0 | 110 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$76,842 | \$76,231 | \$82,103 | \$85,169 | \$83,442 | \$0 | \$0 | \$81,879 |
| 55-59 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 3 | 9 | 10 | 0 | 0 | 32 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$71,427 | \$76,330 | \$70,959 | \$77,582 | \$84,710 | \$0 | \$0 | \$77,725 |
| 60-64 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 1 | 4 | 0 | 0 | 10 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$75,931 | * | * | \$80,970 | \$0 | \$0 | \$77,300 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | * |
| 70 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 0 | 0 | 0 | 0 | 0 | 2 | 162 | 211 | 199 | 63 | 20 | 0 | 0 | 657 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$79,613 | \$76,459 | \$79,529 | \$85,942 | \$85,860 | \$84,223 | \$0 | \$0 | \$81,465 |
| Average: | Age | 45.6 | Number of Participants: |  |  | Vested | 657 |  | Males | 602 |  | Retiren | ment Eligible: | N/A |
|  | Service | 18.9 |  |  |  | t Vested | 0 |  | Females | 55 |  | Retirem | ment Eligible: | 104 |

*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.

| Age and Service Distribution of Active Members (Number of Actives and Average Annual Salary) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WSPRS Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 25 | 0 | 10 | 10 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
|  | \$0 | \$45,485 | \$48,124 | \$54,517 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$49,262 |
| 25-29 | 1 | 25 | 17 | 18 | 10 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 |
|  | * | \$48,164 | \$53,366 | \$56,098 | \$58,749 | \$66,926 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$58,023 |
| 30-34 | 1 | 11 | 5 | 4 | 9 | 83 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 129 |
|  | * | \$46,114 | \$52,377 | \$55,943 | \$60,709 | \$72,444 | \$75,118 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$68,321 |
| 35-39 | 0 | 1 | 3 | 4 | 2 | 43 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 83 |
|  | \$0 | * | \$51,874 | \$55,308 | \$57,137 | \$72,213 | \$78,146 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$72,081 |
| 40-44 | 0 | 1 | 3 | 2 | 0 | 19 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
|  | \$0 | * | \$54,357 | \$56,292 | \$0 | \$71,503 | \$75,245 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$70,339 |
| 45-49 | 0 | 0 | 0 | 1 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
|  | \$0 | \$0 | \$0 | * | \$0 | \$68,536 | \$71,780 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$68,356 |
| 50-54 | 0 | 0 | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
|  | \$0 | \$0 | \$56,183 | \$0 | * | \$70,428 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$64,339 |
| 55-59 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 60-64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 70 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 2 | 48 | 40 | 37 | 23 | 195 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 409 |
|  | \$52,721 | \$46,958 | \$52,035 | \$55,786 | \$59,431 | \$70,990 | \$76,465 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$65,058 |
| Average: | Age | 32.5 | Number of Participants: |  |  | Vested | 257 |  | Males | 376 |  | Retirem | ment Eligible: | N/A |
|  | Service | 5.7 |  |  |  | ot Vested | 152 |  | males | 33 |  | Retirem | nent Eligible: | 1 |

*Annual Salary omitted for privacy reasons.
Numbers of participants eligible for early and normal retirement are estimates only.

Age/Years Retired Distribution

| Age and Years Retired Distribution of Service Retired Members (Number of Service Retired Members and Average Monthly Benefit) PERS Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 1 | 2 | 2 | 1 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
|  | * | \$2,704 | \$4,179 | * | \$4,298 | \$3,596 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,644 |
| 55-59 | 46 | 94 | 113 | 100 | 120 | 617 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 1,136 |
|  | \$2,977 | \$3,356 | \$3,503 | \$3,218 | \$3,406 | \$3,021 | \$2,776 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,143 |
| 60-64 | 224 | 477 | 515 | 447 | 388 | 2,447 | 893 | 30 | 5 | 0 | 0 | 0 | 0 | 5,426 |
|  | \$2,763 | \$2,450 | \$2,692 | \$2,482 | \$2,761 | \$3,024 | \$2,853 | \$2,414 | \$1,648 | \$0 | \$0 | \$0 | \$0 | \$2,835 |
| 65-69 | 207 | 451 | 622 | 616 | 670 | 3,262 | 3,146 | 671 | 130 | 0 | 0 | 0 | 0 | 9,775 |
|  | \$2,549 | \$2,170 | \$2,525 | \$2,347 | \$2,330 | \$2,244 | \$2,662 | \$2,493 | \$2,052 | \$0 | \$0 | \$0 | \$0 | \$2,427 |
| 70-74 | 16 | 62 | 94 | 132 | 215 | 2,266 | 3,416 | 1,472 | 734 | 11 | 3 | 0 | 0 | 8,421 |
|  | \$2,990 | \$2,457 | \$2,554 | \$2,614 | \$2,598 | \$2,006 | \$1,991 | \$2,400 | \$2,069 | \$2,038 | \$1,633 | \$0 | \$0 | \$2,110 |
| 75-79 | 9 | 17 | 29 | 33 | 28 | 380 | 2,008 | 2,839 | 1,441 | 148 | 63 | 0 | 0 | 6,995 |
|  | \$2,896 | \$3,117 | \$2,559 | \$2,381 | \$1,882 | \$2,101 | \$1,779 | \$1,673 | \$1,835 | \$2,255 | \$1,759 | \$0 | \$0 | \$1,786 |
| 80-84 | 0 | 9 | 5 | 8 | 8 | 59 | 259 | 2,028 | 2,482 | 378 | 222 | 4 | 0 | 5,462 |
|  | \$0 | \$2,100 | \$1,781 | \$1,756 | \$2,543 | \$2,226 | \$1,948 | \$1,552 | \$1,364 | \$2,099 | \$1,872 | \$1,661 | \$0 | \$1,546 |
| 85-89 | 0 | 1 | 1 | 2 | 1 | 20 | 57 | 250 | 1,626 | 1,657 | 759 | 60 | 5 | 4,439 |
|  | \$0 | * | * | \$989 | * | \$2,391 | \$1,856 | \$1,707 | \$1,271 | \$1,104 | \$1,357 | \$1,729 | \$482 | \$1,266 |
| 90-94 | 0 | 0 | 1 | 0 | 0 | 6 | 14 | 37 | 147 | 919 | 1,178 | 101 | 11 | 2,414 |
|  | \$0 | \$0 | * | \$0 | \$0 | \$2,245 | \$2,123 | \$1,775 | \$1,448 | \$1,073 | \$958 | \$1,749 | \$1,362 | \$1,090 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 9 | 55 | 389 | 267 | 39 | 767 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,448 | \$1,394 | \$1,275 | \$1,046 | \$859 | \$905 | \$1,051 | \$909 |
| Total | 503 | 1,113 | 1,382 | 1,339 | 1,432 | 9,064 | 9,842 | 7,332 | 6,574 | 3,168 | 2,614 | 432 | 55 | 44,850 |
|  | \$2,706 | \$2,420 | \$2,671 | \$2,479 | \$2,571 | \$2,443 | \$2,242 | \$1,865 | \$1,538 | \$1,270 | \$1,157 | \$1,224 | \$1,061 | \$2,015 |
| Average: | Year | Age Retired | $\begin{aligned} & 74.3 \\ & 14.5 \end{aligned}$ |  |  |  |  |  | Males Females | $\begin{aligned} & 20,485 \\ & 24,365 \end{aligned}$ |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Service Retired Members (Number of Service Retired Members and Average Monthly Benefit) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |  |
| 50-54 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
|  | \$0 | * | \$0 | \$112 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$93 |
| 55-59 | 129 | 165 | 109 | 58 | 24 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 488 |
|  | \$2,784 | \$1,977 | \$2,195 | \$2,211 | \$1,559 | \$247 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,236 |
| 60-64 | 365 | 593 | 465 | 237 | 140 | 190 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1,991 |
|  | \$2,607 | \$2,393 | \$2,362 | \$2,329 | \$1,879 | \$1,072 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,254 |
| 65-69 | 1,164 | 2,365 | 2,079 | 1,799 | 1,288 | 847 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 9,630 |
|  | \$1,640 | \$1,479 | \$1,572 | \$1,532 | \$1,481 | \$1,609 | \$726 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,533 |
| 70-74 | 109 | 231 | 292 | 431 | 600 | 5,432 | 340 | 20 | 0 | 0 | 0 | 0 | 0 | 7,455 |
|  | \$1,677 | \$1,504 | \$1,521 | \$1,651 | \$1,415 | \$1,177 | \$1,108 | \$590 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,249 |
| 75-79 | 20 | 52 | 60 | 66 | 69 | 828 | 3,288 | 46 | 1 | 0 | 0 | 0 | 0 | 4,430 |
|  | \$1,110 | \$1,596 | \$1,422 | \$1,264 | \$1,422 | \$1,252 | \$958 | \$952 | * | \$0 | \$0 | \$0 | \$0 | \$1,039 |
| 80-84 | 5 | 9 | 10 | 14 | 13 | 115 | 453 | 1,697 | 9 | 0 | 0 | 0 | 0 | 2,325 |
|  | \$1,552 | \$1,090 | \$1,503 | \$1,071 | \$1,087 | \$1,056 | \$941 | \$782 | \$354 | \$0 | \$0 | \$0 | \$0 | \$834 |
| 85-89 | 1 | 2 | 4 | 1 | 3 | 24 | 79 | 243 | 490 | 0 | 0 | 0 | 0 | 847 |
|  | * | \$1,647 | \$693 | * | \$429 | \$800 | \$721 | \$795 | \$631 | \$0 | \$0 | \$0 | \$0 | \$693 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 5 | 10 | 21 | 53 | 94 | 1 | 0 | 0 | 184 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$983 | \$794 | \$721 | \$588 | \$450 | * | \$0 | \$0 | \$552 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 8 | 0 | 0 | 0 | 16 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$281 | * | \$353 | \$569 | \$0 | \$0 | \$0 | \$488 |
| Total | 1,793 | 3,418 | 3,020 | 2,608 | 2,137 | 7,444 | 4,262 | 2,028 | 557 | 102 | 1 | 0 | 0 | 27,370 |
|  | \$1,915 | \$1,664 | \$1,706 | \$1,628 | \$1,484 | \$1,228 | \$958 | \$785 | \$619 | \$459 | * | \$0 | \$0 | \$1,348 |
| Average: | Yea | Age Retired | $\begin{array}{r} 71.5 \\ 6.4 \end{array}$ |  |  |  |  |  | Males | $\begin{aligned} & 12,354 \\ & 15,016 \end{aligned}$ |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Service Retired Members (Number of Service Retired Members and Average Monthly Benefit) (Continued) <br> PERS Plan 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 24 | 20 | 15 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
|  | \$1,110 | \$1,146 | \$1,000 | \$763 | \$642 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$997 |
| 60-64 | 65 | 104 | 94 | 46 | 39 | 76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 424 |
|  | \$1,011 | \$979 | \$986 | \$811 | \$757 | \$415 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$846 |
| 65-69 | 108 | 180 | 165 | 139 | 127 | 227 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 982 |
|  | \$893 | \$814 | \$833 | \$935 | \$725 | \$540 | \$365 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$752 |
| 70-74 | 6 | 17 | 15 | 13 | 25 | 268 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 389 |
|  | \$377 | \$682 | \$854 | \$735 | \$665 | \$706 | \$561 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$687 |
| 75-79 | 1 | 3 | 1 | 1 | 2 | 22 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
|  | * | \$353 | * | * | \$673 | \$566 | \$969 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$656 |
| 80-84 | 0 | 2 | 1 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
|  | \$0 | \$442 | * | \$0 | \$0 | \$903 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$570 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$250 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$250 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 204 | 326 | 291 | 210 | 202 | 599 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 1,925 |
|  | \$938 | \$873 | \$890 | \$883 | \$720 | \$600 | \$530 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$766 |
| Average: | Yea | Age Retired | $\begin{array}{r} 66.7 \\ 3.9 \end{array}$ |  |  |  |  |  | Males emales | $\begin{array}{r} 1,034 \\ 891 \end{array}$ |  |  |  |  |

Defined benefit portion only.
*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Service Retired Members (Number of Service Retired Members and Average Monthly Benefit) (Continued) <br> TRS Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 2 | 33 | 24 | 31 | 53 | 154 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 297 |
|  | \$3,361 | \$3,514 | \$2,923 | \$3,310 | \$3,220 | \$3,249 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,254 |
| 60-64 | 25 | 347 | 428 | 377 | 328 | 2,071 | 541 | 0 | 0 | 0 | 0 | 0 | 0 | 4,117 |
|  | \$2,199 | \$3,060 | \$2,852 | \$2,866 | \$2,565 | \$2,867 | \$2,711 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,833 |
| 65-69 | 14 | 249 | 316 | 430 | 305 | 3,104 | 3,551 | 524 | 115 | 0 | 0 | 0 | 0 | 8,608 |
|  | \$3,308 | \$3,103 | \$3,082 | \$3,115 | \$2,727 | \$2,174 | \$2,305 | \$2,161 | \$1,747 | \$0 | \$0 | \$0 | \$0 | \$2,350 |
| 70-74 | 3 | 37 | 39 | 74 | 68 | 1,020 | 2,798 | 2,020 | 738 | 0 | 0 | 0 | 0 | 6,797 |
|  | \$3,090 | \$3,265 | \$3,282 | \$3,072 | \$2,815 | \$2,423 | \$1,840 | \$2,160 | \$1,993 | \$0 | \$0 | \$0 | \$0 | \$2,079 |
| 75-79 | 3 | 1 | 4 | 8 | 9 | 125 | 750 | 2,085 | 1,762 | 123 | 38 | 0 | 0 | 4,908 |
|  | \$4,366 | * | \$2,664 | \$3,616 | \$3,688 | \$2,625 | \$2,106 | \$1,807 | \$2,031 | \$2,030 | \$1,507 | \$0 | \$0 | \$1,967 |
| 80-84 | 0 | 2 | 1 | 2 | 2 | 12 | 81 | 721 | 1,899 | 718 | 306 | 0 | 0 | 3,744 |
|  | \$0 | \$4,943 | * | \$1,347 | \$5,109 | \$2,745 | \$2,053 | \$2,081 | \$1,720 | \$1,856 | \$1,706 | \$0 | \$0 | \$1,829 |
| 85-89 | 0 | 1 | 0 | 0 | 0 | 4 | 7 | 77 | 582 | 998 | 768 | 19 | 0 | 2,456 |
|  | \$0 | * | \$0 | \$0 | \$0 | \$2,197 | \$2,449 | \$1,953 | \$1,711 | \$1,380 | \$1,595 | \$1,661 | \$0 | \$1,552 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 63 | 275 | 676 | 137 | 1 | 1,161 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$1,968 | \$1,693 | \$1,470 | \$1,262 | \$1,594 | * | \$1,380 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 19 | 161 | 221 | 53 | 459 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,949 | \$1,246 | \$1,431 | \$1,308 | \$1,308 | \$1,356 |
| Total | 47 | 670 | 812 | 922 | 765 | 6,490 | 7,729 | 5,435 | 5,164 | 2,133 | 1,949 | 377 | 54 | 32,547 |
|  | \$2,774 | \$3,121 | \$2,964 | \$3,017 | \$2,717 | \$2,469 | \$2,143 | \$2,011 | \$1,865 | \$1,588 | \$1,482 | \$1,430 | \$1,313 | \$2,136 |
| Average: | Yea | Age Retired | $\begin{aligned} & 73.4 \\ & 14.9 \end{aligned}$ |  |  |  |  |  | Males Females | $\begin{aligned} & 13,742 \\ & 18,805 \end{aligned}$ |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Service Retired Members (Number of Service Retired Members and Average Monthly Benefit) <br> (Continued) <br> TRS Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 3 | 14 | 9 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
|  | \$2,728 | \$2,160 | \$2,913 | \$2,152 | \$1,886 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,349 |
| 60-64 | 8 | 83 | 57 | 25 | 12 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 211 |
|  | \$2,587 | \$2,354 | \$2,171 | \$1,963 | \$1,741 | \$1,159 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,085 |
| 65-69 | 68 | 293 | 272 | 256 | 153 | 143 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 1,197 |
|  | \$1,466 | \$1,809 | \$1,839 | \$1,835 | \$1,825 | \$1,841 | \$864 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,798 |
| 70-74 | 0 | 18 | 36 | 29 | 56 | 772 | 66 | 7 | 0 | 0 | 0 | 0 | 0 | 984 |
|  | \$0 | \$2,414 | \$2,300 | \$1,940 | \$2,204 | \$1,578 | \$1,244 | \$900 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,639 |
| 75-79 | 1 | 3 | 3 | 7 | 2 | 85 | 401 | 23 | 2 | 0 | 0 | 0 | 0 | 527 |
|  | * | \$2,303 | \$1,914 | \$1,989 | \$2,319 | \$1,798 | \$1,329 | \$1,296 | \$466 | \$0 | \$0 | \$0 | \$0 | \$1,423 |
| 80-84 | 0 | 0 | 0 | 2 | 0 | 3 | 38 | 153 | 5 | 0 | 0 | 0 | 0 | 201 |
|  | \$0 | \$0 | \$0 | \$165 | \$0 | \$2,217 | \$1,565 | \$1,189 | \$759 | \$0 | \$0 | \$0 | \$0 | \$1,255 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 15 | 29 | 0 | 0 | 0 | 0 | 53 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,675 | \$1,302 | \$1,246 | \$981 | \$0 | \$0 | \$0 | \$0 | \$1,132 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 0 | 0 | 0 | 10 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,091 | \$1,269 | \$960 | \$552 | \$0 | \$0 | \$0 | \$926 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 80 | 411 | 377 | 323 | 229 | 1,032 | 525 | 200 | 39 | 3 | 0 | 0 | 0 | 3,219 |
|  | \$1,633 | \$1,961 | \$1,960 | \$1,851 | \$1,919 | \$1,624 | \$1,324 | \$1,197 | \$925 | \$552 | \$0 | \$0 | \$0 | \$1,665 |
| Average: | Yea | Age <br> Retired | $\begin{array}{r} 71.0 \\ 6.4 \end{array}$ |  |  |  |  |  | Males | 833 2,386 |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Service Retired Members (Number of Service Retired Members and Average Monthly Benefit) <br> (Continued) <br> TRS Plan 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 7 | 67 | 34 | 25 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140 |
|  | \$702 | \$1,248 | \$1,050 | \$963 | \$700 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,094 |
| 60-64 | 45 | 240 | 205 | 92 | 52 | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 740 |
|  | \$1,191 | \$1,226 | \$1,148 | \$1,099 | \$1,081 | \$597 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,086 |
| 65-69 | 138 | 634 | 532 | 444 | 260 | 385 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 2,475 |
|  | \$1,017 | \$1,021 | \$1,004 | \$1,019 | \$992 | \$748 | \$361 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$949 |
| 70-74 | 1 | 35 | 30 | 51 | 68 | 681 | 135 | 21 | 0 | 0 | 0 | 0 | 0 | 1,022 |
|  | * | \$1,166 | \$971 | \$929 | \$826 | \$846 | \$566 | \$374 | \$0 | \$0 | \$0 | \$0 | \$0 | \$817 |
| 75-79 | 0 | 2 | 2 | 4 | 7 | 40 | 77 | 11 | 0 | 0 | 0 | 0 | 0 | 143 |
|  | \$0 | \$918 | \$808 | \$634 | \$413 | \$795 | \$692 | \$645 | \$0 | \$0 | \$0 | \$0 | \$0 | \$707 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$558 | \$774 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$683 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 191 | 978 | 803 | 616 | 394 | 1,216 | 297 | 33 | 0 | 0 | 0 | 0 | 0 | 4,528 |
|  | \$1,044 | \$1,091 | \$1,041 | \$1,019 | \$959 | \$791 | \$543 | \$483 | \$0 | \$0 | \$0 | \$0 | \$0 | \$938 |
| Average: |  | Age | 67.3 |  |  |  |  |  | Males | 1,302 |  |  |  |  |
|  | Years Retired |  | 3.9 |  |  |  |  |  | males | 3,226 |  |  |  |  |

Defined benefit portion only.
*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Service Retired Members (Number of Service Retired Members and Average Monthly Benefit) (Continued) SERS Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 9 | 17 | 9 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
|  | \$1,094 | \$959 | \$746 | \$1,067 | \$777 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$936 |
| 60-64 | 34 | 82 | 60 | 26 | 16 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250 |
|  | \$1,311 | \$1,244 | \$928 | \$815 | \$1,004 | \$516 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,024 |
| 65-69 | 140 | 476 | 390 | 334 | 232 | 194 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1,779 |
|  | \$890 | \$970 | \$915 | \$819 | \$779 | \$865 | \$546 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$884 |
| 70-74 | 12 | 56 | 73 | 90 | 121 | 1,177 | 85 | 0 | 0 | 0 | 0 | 0 | 0 | 1,614 |
|  | \$1,114 | \$896 | \$933 | \$887 | \$785 | \$764 | \$876 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$793 |
| 75-79 | 2 | 16 | 23 | 21 | 24 | 245 | 417 | 0 | 0 | 0 | 0 | 0 | 0 | 748 |
|  | \$496 | \$813 | \$801 | \$658 | \$719 | \$680 | \$685 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$690 |
| 80-84 | 1 | 6 | 5 | 6 | 8 | 52 | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 145 |
|  | * | \$881 | \$944 | \$569 | \$619 | \$592 | \$536 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$606 |
| 85-89 | 0 | 1 | 0 | 2 | 3 | 11 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
|  | \$0 | * | \$0 | \$457 | \$520 | \$380 | \$445 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$428 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,550 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,550 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| Total | 198 | 654 | 560 | 483 | 408 | 1,714 | 598 | 0 | 0 | 0 | 0 | 0 | 0 | 4,615 |
|  | \$991 | \$992 | \$912 | \$822 | \$781 | \$752 | \$686 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$817 |
|  | Average. $\quad \begin{array}{r}\text { Age }\end{array}$ |  | 70.6 |  |  |  |  |  | Males | 1,345 |  |  |  |  |
|  |  |  | 5.0 |  |  |  |  |  | emales | 3,270 |  |  |  |  |


| Age and Years Retired Distribution of Service Retired Members (Number of Service Retired Members and Average Monthly Benefit) <br> (Continued) <br> SERS Plan 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 8 | 9 | 10 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
|  | \$744 | \$359 | \$548 | \$313 | \$476 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$489 |
| 60-64 | 61 | 157 | 99 | 52 | 20 | 85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 474 |
|  | \$542 | \$450 | \$455 | \$509 | \$272 | \$255 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$427 |
| 65-69 | 161 | 451 | 412 | 329 | 192 | 405 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 1,991 |
|  | \$515 | \$453 | \$484 | \$494 | \$426 | \$343 | \$160 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$440 |
| 70-74 | 10 | 41 | 65 | 75 | 54 | 691 | 136 | 0 | 0 | 0 | 0 | 0 | 0 | 1,072 |
|  | \$499 | \$370 | \$396 | \$434 | \$443 | \$406 | \$278 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$392 |
| 75-79 | 1 | 7 | 7 | 9 | 7 | 61 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 185 |
|  | * | \$188 | \$284 | \$264 | \$260 | \$322 | \$382 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$341 |
| 80-84 | 1 | 0 | 0 | 3 | 2 | 7 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
|  | * | \$0 | \$0 | \$287 | \$123 | \$229 | \$247 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$243 |
| 85-89 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
|  | \$0 | \$0 | \$0 | * | \$0 | * | \$324 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$259 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |  |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 242 | 665 | 593 | 477 | 279 | 1,251 | 286 | 0 | 0 | 0 | 0 | 0 | 0 | 3,793 |
|  | \$528 | \$443 | \$468 | \$477 | \$413 | \$370 | \$294 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$419 |
| Average: | Yea | Age etired | $\begin{array}{r} 68.3 \\ 4.2 \end{array}$ |  |  |  |  |  | Males | $\begin{array}{r} 880 \\ 2,913 \end{array}$ |  |  |  |  |

Defined benefit portion only.
*Monthly benefit omitted for privacy reasons.

$$
4: \quad \text {-ppendices }
$$

| Age and Years Retired Distribution of Service Retired Members (Number of Service Retired Members and Average Monthly Benefit) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PSERS Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 3 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
|  | \$573 | * | \$0 | \$264 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$462 |
| 60-64 | 4 | 3 | 6 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
|  | \$706 | \$626 | \$453 | \$181 | \$249 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$487 |
| 65-69 | 2 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
|  | \$382 | \$281 | \$175 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$266 |
| 70-74 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | \$0 | \$0 | * | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$179 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 9 | 8 | 11 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
|  | \$590 | \$441 | \$338 | \$246 | \$249 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$398 |
| Average: | Year | Age etired | $\begin{array}{r} 63.5 \\ 1.7 \end{array}$ |  |  |  |  |  | Males emales | 21 15 |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Service Retired Law Enforcement Officers (Number of Service Retired Members and Average Monthly Benefit) <br> (Continued) <br> LEOFF Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 1 | 6 | 4 | 5 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
|  | * | \$5,687 | \$5,147 | \$7,116 | \$0 | \$4,960 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,514 |
| 60-64 | 6 | 11 | 16 | 12 | 17 | 112 | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 281 |
|  | \$6,976 | \$6,659 | \$7,310 | \$6,572 | \$6,381 | \$5,096 | \$4,077 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,076 |
| 65-69 | 2 | 4 | 5 | 4 | 9 | 105 | 168 | 194 | 0 | 0 | 0 | 0 | 0 | 491 |
|  | \$6,722 | \$6,917 | \$9,550 | \$5,518 | \$5,589 | \$5,546 | \$4,774 | \$3,438 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,507 |
| 70-74 | 0 | 0 | 4 | 1 | 4 | 25 | 65 | 137 | 117 | 0 | 0 | 0 | 0 | 353 |
|  | \$0 | \$0 | \$6,112 | * | \$7,511 | \$5,696 | \$5,035 | \$4,230 | \$3,305 | \$0 | \$0 | \$0 | \$0 | \$4,244 |
| 75-79 | 0 | 1 | 2 | 0 | 0 | 2 | 9 | 46 | 84 | 95 | 0 | 0 | 0 | 239 |
|  | \$0 | * | \$7,814 | \$0 | \$0 | \$8,458 | \$4,669 | \$4,917 | \$3,991 | \$3,395 | \$0 | \$0 | \$0 | \$4,050 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 8 | 20 | 52 | 70 | 0 | 0 | 154 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,646 | \$4,888 | \$5,107 | \$3,637 | \$2,934 | \$0 | \$0 | \$3,626 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 15 | 43 | 37 | 0 | 107 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,047 | \$4,321 | \$3,999 | \$3,705 | \$0 | \$3,948 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 13 | 9 | 31 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,774 | \$4,231 | \$3,043 | \$3,753 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | * | \$0 | \$4,648 |
| Total | 9 | 22 | 31 | 22 | 30 | 261 | 353 | 385 | 233 | 162 | 123 | 51 | 9 | 1,691 |
|  | \$6,962 | \$6,561 | \$7,270 | \$6,568 | \$6,294 | \$5,351 | \$4,618 | \$3,927 | \$3,745 | \$3,558 | \$3,395 | \$3,825 | \$3,043 | \$4,372 |
| Average: | Yea | Age <br> Retired | $\begin{aligned} & 71.4 \\ & 17.0 \end{aligned}$ |  |  |  |  |  | Males Females | $\begin{array}{r} 1,643 \\ 48 \end{array}$ |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Service Retired Fire Fighters (Number of Service Retired Members and Average Monthly Benefit) <br> (Continued) <br> LEOFF Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 3 | 5 | 11 | 6 | 2 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
|  | \$9,017 | \$7,039 | \$6,787 | \$7,402 | \$5,813 | \$5,636 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$6,630 |
| 60-64 | 3 | 15 | 16 | 11 | 17 | 77 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 186 |
|  | \$7,524 | \$7,751 | \$7,191 | \$7,926 | \$6,544 | \$5,875 | \$4,243 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,936 |
| 65-69 | 3 | 8 | 12 | 6 | 7 | 90 | 101 | 60 | 0 | 0 | 0 | 0 | 0 | 287 |
|  | \$6,392 | \$7,035 | \$6,793 | \$6,901 | \$6,733 | \$6,154 | \$4,781 | \$3,413 | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,182 |
| 70-74 | 0 | 2 | 3 | 3 | 0 | 13 | 29 | 68 | 47 | 0 | 0 | 0 | 0 | 165 |
|  | \$0 | \$8,699 | \$10,522 | \$7,404 | \$0 | \$6,676 | \$5,209 | \$4,298 | \$3,312 | \$0 | \$0 | \$0 | \$0 | \$4,588 |
| 75-79 | 0 | 0 | 1 | 0 | 1 | 1 | 3 | 33 | 34 | 39 | 0 | 0 | 0 | 112 |
|  | \$0 | \$0 | * | \$0 | * | * | \$5,299 | \$5,141 | \$4,747 | \$2,998 | \$0 | \$0 | \$0 | \$4,343 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 13 | 45 | 30 | 0 | 0 | 93 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$6,002 | \$4,901 | \$4,120 | \$3,186 | \$0 | \$0 | \$4,020 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 15 | 25 | 15 | 0 | 59 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$5,580 | \$4,046 | \$4,143 | \$3,300 | \$0 | \$3,974 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 6 | 18 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,260 | \$3,628 | \$3,556 | \$4,239 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,917 | \$3,917 |
| Total | 9 | 30 | 43 | 26 | 27 | 195 | 181 | 166 | 97 | 99 | 62 | 20 | 8 | 963 |
|  | \$7,644 | \$7,505 | \$7,198 | \$7,508 | \$6,606 | \$6,048 | \$4,720 | \$4,185 | \$4,098 | \$3,667 | \$3,806 | \$3,382 | \$3,646 | \$4,983 |
| Average: | Yea | Age Retired | $\begin{aligned} & 70.8 \\ & 15.1 \end{aligned}$ |  |  |  |  |  | Males Females | 959 4 |  |  |  |  |

[^6]| Age and Years Retired Distribution of Service Retired Law Enforcement Officers (Number of Service Retired Members and Average Monthly Benefit) (Continued) LEOFF Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 31 | 55 | 12 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 113 |
|  | \$3,330 | \$2,883 | \$3,435 | \$3,038 | \$3,636 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,117 |
| 55-59 | 43 | 68 | 96 | 95 | 66 | 149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 517 |
|  | \$4,576 | \$4,301 | \$3,846 | \$3,679 | \$2,957 | \$2,960 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,567 |
| 60-64 | 32 | 44 | 49 | 47 | 25 | 257 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 494 |
|  | \$4,188 | \$3,808 | \$3,609 | \$3,644 | \$3,613 | \$2,756 | \$1,770 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,075 |
| 65-69 | 10 | 9 | 28 | 15 | 14 | 80 | 76 | 1 | 0 | 0 | 0 | 0 | 0 | 233 |
|  | \$4,055 | \$3,612 | \$2,590 | \$3,478 | \$2,894 | \$2,702 | \$1,638 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,492 |
| 70-74 | 3 | 2 | 2 | 3 | 3 | 24 | 32 | 12 | 0 | 0 | 0 | 0 | 0 | 81 |
|  | \$3,040 | \$2,690 | \$1,990 | \$3,826 | \$1,460 | \$2,414 | \$1,513 | \$1,034 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,890 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 5 | 7 | 5 | 3 | 0 | 0 | 0 | 0 | 20 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,098 | \$1,642 | \$1,070 | \$615 | \$0 | \$0 | \$0 | \$0 | \$1,459 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 6 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$1,539 | * | \$0 | \$0 | \$0 | \$0 | \$1,219 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | * |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 119 | 178 | 187 | 169 | 114 | 515 | 156 | 22 | 4 | 1 | 0 | 0 | 0 | 1,465 |
|  | \$4,064 | \$3,688 | \$3,550 | \$3,620 | \$3,089 | \$2,784 | \$1,636 | \$1,161 | \$725 | * | \$0 | \$0 | \$0 | \$3,062 |
| Average: | Yea | Age Retired | $\begin{array}{r} 61.1 \\ 5.0 \end{array}$ |  |  |  |  |  | Males <br> males | $\begin{array}{r} 1,340 \\ 125 \end{array}$ |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Service Retired Fire Fighters (Number of Service Retired Members and Average Monthly Benefit) (Continued) <br> LEOFF Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total 0 |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 19 | 20 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
|  | \$4,490 | \$4,195 | \$3,994 | \$3,316 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,228 |
| 55-59 | 46 | 70 | 63 | 41 | 41 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 308 |
|  | \$4,896 | \$4,895 | \$4,642 | \$3,881 | \$3,479 | \$2,999 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,231 |
| 60-64 | 38 | 38 | 46 | 38 | 19 | 126 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 317 |
|  | \$4,612 | \$4,502 | \$4,713 | \$4,238 | \$3,339 | \$3,110 | \$2,389 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,811 |
| 65-69 | 5 | 13 | 10 | 8 | 8 | 44 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 121 |
|  | \$3,464 | \$3,497 | \$4,225 | \$3,771 | \$3,988 | \$2,995 | \$2,505 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,153 |
| 70-74 | 0 | 1 | 3 | 5 | 1 | 18 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 44 |
|  | \$0 | * | \$2,855 | \$2,041 | * | \$2,358 | \$1,897 | \$1,227 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,051 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 7 | 6 | 0 | 0 | 0 | 0 | 23 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,535 | \$1,825 | \$1,336 | \$930 | \$0 | \$0 | \$0 | \$0 | \$1,504 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 6 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,652 | * | \$652 | * | \$0 | \$0 | \$0 | \$1,402 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | * |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 108 | 142 | 126 | 94 | 70 | 237 | 68 | 11 | 9 | 1 | 0 | 0 | 0 | 866 |
|  | \$4,658 | \$4,532 | \$4,571 | \$3,906 | \$3,441 | \$3,005 | \$2,263 | \$1,454 | \$796 | * | \$0 | \$0 | \$0 | \$3,719 |
| Average: | Year | Age <br> Retired | $\begin{array}{r} 61.4 \\ 4.4 \end{array}$ |  |  |  |  |  | Males males | $\begin{array}{r} 824 \\ 42 \end{array}$ |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Service Retired Members (Number of Service Retired Members and Average Monthly Benefit) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 8 | 6 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
|  | \$3,938 | \$4,142 | \$4,209 | \$4,998 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,200 |
| 50-54 | 14 | 22 | 24 | 15 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 78 |
|  | \$3,943 | \$4,387 | \$4,485 | \$4,723 | * | \$3,950 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,391 |
| 55-59 | 7 | 7 | 13 | 13 | 7 | 57 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 111 |
|  | \$5,278 | \$4,669 | \$3,536 | \$4,478 | \$4,498 | \$4,320 | \$4,414 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,346 |
| 60-64 | 1 | 6 | 3 | 5 | 2 | 39 | 58 | 25 | 0 | 0 | 0 | 0 | 0 | 139 |
|  | * | \$3,747 | \$1,761 | \$5,590 | \$6,571 | \$4,540 | \$4,513 | \$3,896 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,374 |
| 65-69 | 3 | 1 | 0 | 0 | 1 | 19 | 59 | 76 | 18 | 0 | 0 | 0 | 0 | 177 |
|  | \$3,806 | * | \$0 | \$0 | * | \$3,863 | \$4,621 | \$3,949 | \$3,741 | \$0 | \$0 | \$0 | \$0 | \$4,132 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 62 | 63 | 5 | 0 | 0 | 0 | 153 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,679 | \$4,514 | \$3,796 | \$3,168 | \$0 | \$0 | \$0 | \$4,199 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 40 | 23 | 4 | 0 | 0 | 74 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,850 | \$3,851 | \$3,800 | \$2,709 | \$0 | \$0 | \$3,868 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 21 | 18 | 0 | 0 | 44 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,245 | \$3,446 | \$2,945 | \$0 | \$0 | \$3,446 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 10 | 1 | 1 | 16 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,880 | \$3,520 | * | * | \$3,118 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,901 | \$0 | \$2,901 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | * |
| Total | 33 | 42 | 46 | 36 | 11 | 117 | 147 | 170 | 126 | 53 | 32 | 4 | 1 | 818 |
|  | \$4,180 | \$4,241 | \$4,003 | \$4,778 | \$4,901 | \$4,313 | \$4,578 | \$4,184 | \$3,863 | \$3,531 | \$3,095 | \$2,469 | * | \$4,155 |
| Average: |  | Age | 65.9 |  |  |  |  |  | Males | 797 |  |  |  |  |
|  | Years Retired |  | 13.7 |  |  |  |  |  | Females | 21 |  |  |  |  |

[^7]| Age and Years Retired Distribution of All Members With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) PERS Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total 0 |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 3 | 2 | 8 | 4 | 1 | 35 | 24 | 8 | 2 | 2 | 0 | 0 | 0 | 89 |
|  | \$1,415 | \$1,866 | \$814 | \$1,468 | * | \$1,203 | \$845 | \$590 | \$350 | \$331 | \$0 | \$0 | \$0 | \$1,002 |
| 60-64 | 0 | 2 | 3 | 13 | 11 | 52 | 67 | 34 | 15 | 7 | 1 | 0 | 0 | 205 |
|  | \$0 | \$1,456 | \$1,223 | \$1,317 | \$1,000 | \$1,159 | \$1,128 | \$905 | \$646 | \$483 | * | \$0 | \$0 | \$1,046 |
| 65-69 | 0 | 0 | 0 | 0 | 3 | 45 | 100 | 69 | 26 | 10 | 6 | 2 | 0 | 261 |
|  | \$0 | \$0 | \$0 | \$0 | \$2,493 | \$1,217 | \$1,153 | \$1,013 | \$786 | \$471 | \$378 | \$375 | \$0 | \$1,056 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 4 | 50 | 78 | 38 | 20 | 7 | 3 | 1 | 201 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,352 | \$1,146 | \$1,124 | \$757 | \$664 | \$403 | \$481 | * | \$980 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 36 | 38 | 34 | 13 | 8 | 3 | 133 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$1,058 | \$1,021 | \$782 | \$537 | \$390 | \$387 | \$864 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 60 | 37 | 10 | 3 | 142 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$918 | \$835 | \$623 | \$351 | \$269 | \$752 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 26 | 34 | 20 | 4 | 86 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$439 | \$707 | \$671 | \$551 | \$714 | \$650 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 19 | 7 | 48 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$796 | \$591 | \$458 | \$665 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 8 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$771 | \$557 | \$691 |
| Total | 3 | 4 | 11 | 17 | 15 | 136 | 242 | 225 | 153 | 159 | 120 | 67 | 21 | 1,173 |
|  | \$1,415 | \$1,661 | \$926 | \$1,352 | \$1,255 | \$1,195 | \$1,110 | \$1,027 | \$841 | \$737 | \$630 | \$521 | \$475 | \$931 |


| Average: | Age | 71.9 |
| :---: | :---: | :---: |
|  | Years Retired | 19.4 |
| *Monthly benefit omitted for privacy reasons. |  |  |


| Age and Years Retired Distribution of All Members With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 3 | 7 | 2 | 0 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
|  | \$0 | \$151 | \$97 | \$127 | \$0 | \$111 | \$83 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$107 |
| 50-54 | 6 | 8 | 10 | 11 | 13 | 24 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 89 |
|  | \$594 | \$445 | \$341 | \$282 | \$205 | \$177 | \$107 | \$55 | \$0 | \$0 | \$0 | \$0 | \$0 | \$250 |
| 55-59 | 12 | 24 | 24 | 30 | 22 | 76 | 32 | 4 | 0 | 0 | 0 | 0 | 0 | 224 |
|  | \$498 | \$504 | \$492 | \$414 | \$351 | \$292 | \$148 | \$129 | \$0 | \$0 | \$0 | \$0 | \$0 | \$346 |
| 60-64 | 23 | 38 | 56 | 39 | 25 | 148 | 104 | 19 | 1 | 0 | 0 | 0 | 0 | 453 |
|  | \$1,005 | \$738 | \$947 | \$663 | \$516 | \$399 | \$245 | \$121 | * | \$0 | \$0 | \$0 | \$0 | \$508 |
| 65-69 | 0 | 8 | 32 | 24 | 37 | 207 | 134 | 37 | 4 | 0 | 0 | 0 | 0 | 483 |
|  | \$0 | \$850 | \$822 | \$845 | \$796 | \$605 | \$379 | \$212 | \$67 | \$0 | \$0 | \$0 | \$0 | \$553 |
| 70-74 | 0 | 0 | 1 | 1 | 2 | 95 | 150 | 69 | 10 | 0 | 0 | 0 | 0 | 328 |
|  | \$0 | \$0 | * | * | \$280 | \$787 | \$566 | \$277 | \$184 | \$0 | \$0 | \$0 | \$0 | \$557 |
| 75-79 | 0 | 0 | 0 | 0 | 1 | 3 | 56 | 83 | 17 | 2 | 0 | 0 | 0 | 162 |
|  | \$0 | \$0 | \$0 | \$0 | * | \$585 | \$675 | \$485 | \$285 | \$111 | \$0 | \$0 | \$0 | \$526 |
| 80-84 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 38 | 30 | 4 | 0 | 0 | 0 | 75 |
|  | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$171 | \$558 | \$426 | \$293 | \$0 | \$0 | \$0 | \$476 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 3 | 0 | 0 | 0 | 14 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$360 | \$342 | \$0 | \$0 | \$0 | \$356 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | * |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 41 | 81 | 130 | 107 | 101 | 559 | 498 | 252 | 73 | 10 | 0 | 0 | 0 | 1,852 |
|  | \$796 | \$629 | \$736 | \$589 | \$532 | \$515 | \$414 | \$362 | \$326 | \$259 | \$0 | \$0 | \$0 | \$490 |
| Average: |  | Age | 66.1 |  |  |  |  |  | Males | 901 |  |  |  |  |
|  | Years Retired |  | 9.3 |  |  |  |  |  | males | 951 |  |  |  |  |
| *Monthly benefit omitted for privacy reasons. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Age and Years Retired Distribution of All Members With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) <br> (Continued) <br> PERS Plan 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 50-54 | 0 | 1 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
|  | \$0 | * | \$232 | \$0 | * | \$172 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$205 |
| 55-59 | 0 | 5 | 1 | 1 | 1 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
|  | \$0 | \$372 | * | * | * | \$215 | \$103 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$244 |
| 60-64 | 2 | 2 | 6 | 3 | 2 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
|  | \$642 | \$409 | \$239 | \$192 | \$472 | \$230 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$282 |
| 65-69 | 0 | 1 | 1 | 1 | 0 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
|  | \$0 | * | * | * | \$0 | \$294 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$323 |
| 70-74 | 0 | 1 | 0 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
|  | \$0 | * | \$0 | \$0 | \$0 | \$369 | \$444 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$364 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 2 | 10 | 10 | 6 | 4 | 47 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 84 |
|  | \$642 | \$327 | \$274 | \$243 | \$276 | \$258 | \$323 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$281 |
| Average: |  | Age | 62.0 |  |  |  |  |  | Males | 45 |  |  |  |  |
|  | Years Retired |  | 5.6 |  |  |  |  |  | males | 39 |  |  |  |  |

Defined benefit portion only.
*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of All Members With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) <br> (Continued) <br> TRS Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 0 | 0 | 0 | 2 | 0 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
|  | \$0 | \$0 | \$0 | \$2,464 | \$0 | \$2,052 | \$1,842 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,050 |
| 60-64 | 0 | 0 | 0 | 0 | 3 | 21 | 40 | 18 | 6 | 2 | 1 | 0 | 0 | 91 |
|  | \$0 | \$0 | \$0 | \$0 | \$2,021 | \$2,249 | \$1,919 | \$1,496 | \$1,062 | \$390 | * | \$0 | \$0 | \$1,807 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 14 | 43 | 68 | 22 | 8 | 6 | 1 | 0 | 162 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,874 | \$1,590 | \$1,664 | \$1,172 | \$759 | \$524 | * | \$0 | \$1,500 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 43 | 21 | 13 | 6 | 5 | 0 | 99 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,334 | \$1,699 | \$1,267 | \$1,241 | \$797 | \$384 | \$0 | \$1,385 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 23 | 37 | 14 | 15 | 1 | 99 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,115 | \$1,468 | \$1,276 | \$1,005 | \$448 | * | \$1,133 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 32 | 41 | 8 | 0 | 84 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,646 | \$1,415 | \$1,138 | \$898 | \$0 | \$1,239 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 32 | 10 | 3 | 50 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,017 | \$1,068 | \$892 | \$687 | \$1,005 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 7 | 2 | 15 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,041 | \$828 | \$567 | \$879 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$823 | * | \$824 |
| Total | 0 | 0 | 0 | 2 | 3 | 38 | 98 | 138 | 75 | 97 | 106 | 48 | 7 | 612 |
|  | \$0 | \$0 | \$0 | \$2,464 | \$2,021 | \$2,095 | \$1,706 | \$1,617 | \$1,299 | \$1,243 | \$1,032 | \$677 | \$621 | \$1,381 |
| Average: | Yea | Age | $\begin{aligned} & 73.0 \\ & 22.3 \end{aligned}$ |  |  |  |  |  | Males Females | $\begin{aligned} & 226 \\ & 386 \end{aligned}$ |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of All Members With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) (Continued) TRS Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |  |
| 50-54 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | \$0 | \$0 | \$0 | \$0 | * | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$235 |
| 55-59 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
|  | \$0 | \$0 | * | * | \$0 | \$0 | \$89 | \$70 | \$0 | \$0 | \$0 | \$0 | \$0 | \$282 |
| 60-64 | 0 | 1 | 1 | 2 | 1 | 7 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 21 |
|  | \$0 | * | * | \$1,111 | * | \$587 | \$256 | \$201 | \$0 | \$0 | \$0 | \$0 | \$0 | \$513 |
| 65-69 | 0 | 0 | 1 | 1 | 2 | 11 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 21 |
|  | \$0 | \$0 | * | * | \$847 | \$783 | \$437 | \$377 | \$0 | \$0 | \$0 | \$0 | \$0 | \$775 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 7 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 25 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,067 | \$757 | \$691 | \$0 | \$0 | \$0 | \$0 | \$0 | \$833 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 7 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$820 | \$0 | \$0 | \$0 | \$0 | \$0 | \$918 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,139 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,139 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 0 | 1 | 3 | 4 | 4 | 25 | 28 | 22 | 0 | 0 | 0 | 0 | 0 | 87 |
|  | \$0 | + | \$1,139 | \$1,136 | \$743 | \$807 | \$548 | \$642 | \$0 | \$0 | \$0 | \$0 | \$0 | \$703 |
| Average: | Year | Age | $\begin{aligned} & 67.4 \\ & 10.6 \end{aligned}$ |  |  |  |  |  | Males emales | 26 61 |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of All Members With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRS Plan 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
|  | * | \$125 | \$0 | * | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$118 |
| 50-54 | 0 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
|  | \$0 | \$206 | \$0 | \$0 | \$105 | \$75 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$129 |
| 55-59 | 0 | 2 | 1 | 3 | 1 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
|  | \$0 | \$265 | * | \$278 | * | \$261 | \$148 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$249 |
| 60-64 | 0 | 2 | 1 | 6 | 1 | 11 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
|  | \$0 | \$205 | * | \$647 | * | \$230 | \$150 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$314 |
| 65-69 | 0 | 0 | 2 | 0 | 0 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 26 |
|  | \$0 | \$0 | \$709 | \$0 | \$0 | \$481 | \$298 | \$134 | \$0 | \$0 | \$0 | \$0 | \$0 | \$395 |
| 70-74 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
|  | \$0 | \$0 | \$0 | \$0 | * | * | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$308 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 1 | 8 | 4 | 10 | 6 | 30 | 22 | 2 | 0 | 0 | 0 | 0 | 0 | 83 |
|  | * | \$200 | \$548 | \$487 | \$165 | \$326 | \$236 | \$134 | \$0 | \$0 | \$0 | \$0 | \$0 | \$302 |
| Average: |  | Age | 61.3 |  |  |  |  |  | Males | 31 |  |  |  |  |
|  | Years Retired |  | 7.0 |  |  |  |  |  | emales | 52 |  |  |  |  |

Defined benefit portion only.
*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of All Members With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) (Continued) SERS Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
|  | \$0 | \$0 | \$0 | \$0 | \$111 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$112 |
| 50-54 | 2 | 2 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
|  | \$444 | \$190 | \$0 | * | \$0 | \$98 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$218 |
| 55-59 | 0 | 6 | 5 | 5 | 4 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
|  | \$0 | \$343 | \$186 | \$356 | \$157 | \$143 | \$142 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$213 |
| 60-64 | 3 | 5 | 6 | 10 | 8 | 26 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
|  | \$598 | \$421 | \$345 | \$343 | \$307 | \$231 | \$167 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$295 |
| 65-69 | 0 | 2 | 8 | 4 | 8 | 45 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 86 |
|  | \$0 | \$911 | \$626 | \$621 | \$342 | \$331 | \$224 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$363 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 19 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$498 | \$383 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$431 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$756 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$756 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 5 | 15 | 19 | 20 | 22 | 105 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 249 |
|  | \$536 | \$425 | \$421 | \$396 | \$275 | \$309 | \$326 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$337 |
| Average: |  | Age | 64.7 |  |  |  |  |  | Males | 86 |  |  |  |  |
|  | Years Retired |  | 6.7 |  |  |  |  |  | males | 163 |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of All Members With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) <br> (Continued) <br> SERS Plan 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 3 | 2 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
|  | \$0 | \$126 | \$206 | * | \$0 | \$29 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$138 |
| 55-59 | 1 | 3 | 0 | 1 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
|  | * | \$119 | \$0 | * | * | \$185 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$138 |
| 60-64 | 1 | 1 | 3 | 1 | 1 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
|  | * | * | \$207 | * | * | \$235 | \$120 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$236 |
| 65-69 | 0 | 1 | 0 | 3 | 1 | 13 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
|  | \$0 | * | \$0 | \$461 | * | \$224 | \$151 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$224 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$446 | \$253 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$302 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$540 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$540 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 2 | 8 | 5 | 6 | 3 | 34 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
|  | \$128 | \$158 | \$207 | \$415 | \$171 | \$225 | \$224 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$227 |
| Average: | Yea | Age Retired | $\begin{array}{r} 63.7 \\ 6.7 \end{array}$ |  |  |  |  |  | Males | 30 50 |  |  |  |  |

Defined benefit portion only.
*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of All Members With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PSERS Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age |  |  |  |  |  | Attained Years Retired |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
|  | \$0 | * | \$0 | * | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$149 |
| 60-64 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | \$0 | * | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$238 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
|  | \$0 | \$297 | \$0 | * | * | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$185 |
| Average: | Yea | Age Retired | $\begin{array}{r} 59.3 \\ 3.2 \end{array}$ |  |  |  |  |  | Males | 4 1 |  |  |  |  |

[^8]| Age and Years Retired Distribution of All Law Enforcement Officers With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 0 | 0 | 0 | 0 | 0 | 3 | 15 | 10 | 12 | 6 | 2 | 0 | 0 | 48 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,285 | \$3,880 | \$3,285 | \$3,203 | \$2,813 | \$2,107 | \$0 | \$0 | \$3,405 |
| 60-64 | 0 | 0 | 0 | 0 | 0 | 17 | 65 | 91 | 63 | 53 | 22 | 4 | 0 | 315 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,214 | \$3,752 | \$3,353 | \$3,003 | \$2,893 | \$2,578 | \$2,205 | \$0 | \$3,266 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 10 | 73 | 193 | 130 | 105 | 88 | 44 | 7 | 650 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,709 | \$3,913 | \$3,521 | \$3,185 | \$2,873 | \$2,798 | \$2,754 | \$2,823 | \$3,239 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 64 | 108 | 63 | 70 | 46 | 15 | 380 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$3,922 | \$3,747 | \$3,540 | \$3,070 | \$2,927 | \$2,894 | \$2,706 | \$3,282 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 14 | 34 | 32 | 51 | 25 | 11 | 168 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$3,407 | \$3,493 | \$3,156 | \$3,109 | \$3,200 | \$2,758 | \$3,215 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 10 | 32 | 10 | 16 | 74 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,984 | \$3,194 | \$3,076 | \$3,240 | \$2,900 | \$2,887 | \$3,113 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 8 | 22 | 6 | 43 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$3,137 | \$3,467 | \$3,440 | \$2,885 | \$3,313 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 4 | 10 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | * | \$2,719 | \$3,257 | \$2,917 |
| 95 \& Over | $0$ | $0$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | * |
| Total | 0 | 0 | 0 | 0 | 0 | 31 | 167 | 374 | 352 | 276 | 274 | 155 | 60 | 1,689 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,986 | \$3,847 | \$3,511 | \$3,291 | \$2,964 | \$2,938 | \$2,959 | \$2,832 | \$3,250 |
| Average: | Yea | Age | $\begin{aligned} & 69.2 \\ & 24.1 \end{aligned}$ |  |  |  |  |  | Males Females | $\begin{array}{r} 1,637 \\ 52 \end{array}$ |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of All Fire Fighters With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LEOFF Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 0 | 0 | 1 | 0 | 0 | 7 | 15 | 8 | 7 | 3 | 0 | 0 | 0 | 41 |
|  | \$0 | \$0 | * | \$0 | \$0 | \$4,669 | \$3,852 | \$3,243 | \$3,073 | \$2,878 | \$0 | \$0 | \$0 | \$3,683 |
| 60-64 | 0 | 0 | 0 | 0 | 0 | 35 | 83 | 58 | 38 | 25 | 15 | 6 | 0 | 260 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,657 | \$3,832 | \$3,721 | \$3,418 | \$2,874 | \$2,643 | \$2,625 | \$0 | \$3,669 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 27 | 132 | 214 | 134 | 46 | 36 | 25 | 1 | 615 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,567 | \$4,048 | \$3,811 | \$3,511 | \$3,160 | \$2,893 | \$2,630 | * | \$3,678 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 2 | 48 | 136 | 150 | 65 | 49 | 29 | 7 | 486 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,062 | \$3,947 | \$3,971 | \$3,721 | \$3,298 | \$3,104 | \$2,844 | \$2,757 | \$3,634 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 61 | 47 | 50 | 19 | 5 | 198 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,661 | \$3,773 | \$3,591 | \$3,353 | \$2,969 | \$2,773 | \$3,512 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 27 | 50 | 38 | 13 | 141 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$3,773 | \$4,004 | \$3,591 | \$3,386 | \$3,155 | \$3,591 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 19 | 39 | 19 | 81 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$3,620 | \$3,885 | \$3,431 | \$3,334 | \$3,520 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 14 | 22 | 40 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,445 | \$3,561 | \$3,205 | \$3,354 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,319 | \$3,319 |
| Total | 0 | 0 | 1 | 0 | 0 | 71 | 278 | 433 | 403 | 216 | 223 | 170 | 72 | 1,867 |
|  | \$0 | \$0 | * | \$0 | \$0 | \$4,635 | \$3,955 | \$3,833 | \$3,620 | \$3,370 | \$3,277 | \$3,134 | \$3,161 | \$3,626 |
| Average: | Yea | Age | $\begin{aligned} & 71.1 \\ & 22.6 \end{aligned}$ |  |  |  |  |  | Males emales | $\begin{array}{r} 1,862 \\ 5 \end{array}$ |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of All Law Enforcement Officers With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) <br> (Continued) <br> LEOFF Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 4 | 10 | 3 | 4 | 3 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
|  | \$1,938 | \$1,842 | \$1,327 | \$2,153 | \$1,358 | \$1,334 | \$583 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,560 |
| 50-54 | 1 | 3 | 1 | 5 | 1 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
|  | * | \$2,704 | * | \$2,891 | * | \$1,712 | \$902 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,283 |
| 55-59 | 2 | 4 | 1 | 2 | 4 | 23 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 43 |
|  | \$3,875 | \$4,601 | * | \$3,585 | \$2,648 | \$3,078 | \$863 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,891 |
| 60-64 | 0 | 2 | 4 | 4 | 2 | 25 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 43 |
|  | \$0 | \$4,380 | \$2,094 | \$3,063 | \$4,426 | \$2,594 | \$1,893 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$2,621 |
| 65-69 | 0 | 1 | 0 | 0 | 2 | 10 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
|  | \$0 | * | \$0 | \$0 | \$2,567 | \$2,825 | \$1,558 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,359 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$630 | * | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$737 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 |  |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 7 | 20 | 9 | 15 | 12 | 78 | 28 | 2 | 1 | 0 | 1 | 0 | 0 | 173 |
|  | \$2,492 | \$2,910 | \$2,479 | \$2,833 | \$2,639 | \$2,459 | \$1,257 | \$1,058 | * | \$0 | * | \$0 | \$0 | \$2,321 |
| Average: | Yea | Age Retired | $\begin{array}{r} 56.6 \\ 6.2 \end{array}$ |  |  |  |  |  | Males | 141 32 |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of All Fire Fighters With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) <br> (Continued) <br> LEOFF Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 1 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
|  | \$0 | \$0 | \$0 | * | \$0 | \$786 | \$1,104 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,017 |
| 50-54 | 2 | 2 | 1 | 3 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
|  | \$4,075 | \$5,308 | * | \$1,257 | \$0 | \$1,829 | \$889 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,391 |
| 55-59 | 2 | 7 | 3 | 7 | 5 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
|  | \$3,817 | \$3,839 | \$4,947 | \$3,733 | \$3,423 | \$3,173 | \$2,186 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,528 |
| 60-64 | 2 | 4 | 6 | 1 | 3 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
|  | \$3,194 | \$4,766 | \$4,861 | * | \$3,316 | \$3,265 | \$2,918 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,684 |
| 65-69 | 0 | 0 | 0 | 2 | 1 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
|  | \$0 | \$0 | \$0 | \$3,207 | * | \$2,288 | \$2,191 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,495 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | * | \$680 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,133 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 6 | 13 | 10 | 14 | 9 | 42 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 113 |
|  | \$3,696 | \$4,350 | \$4,791 | \$2,963 | \$3,409 | \$2,673 | \$1,937 | \$680 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,056 |
| Average: |  | Age | 58.9 |  |  |  |  |  | Males | 101 |  |  |  |  |
|  | Yea | Retired | 5.6 |  |  |  |  |  | males | 12 |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of All Members With Disabilities (Number of All Members With Disabilities and Average Monthly Benefit) (Continued) WSPRS Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 4 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | * | \$0 | \$0 | * | * | \$0 | \$0 | \$0 |
| 60-64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 4 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | * | \$0 | \$0 | \$0 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 2 | 2 | 1 | 10 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 6 | 1 | 0 | 14 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 2 | 0 | 8 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 4 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | * |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 7 | 9 | 5 | 16 | 5 | 3 | 49 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Average: | Yea | Age | $\begin{aligned} & 69.0 \\ & 26.9 \end{aligned}$ |  |  |  |  |  | Males <br> emales | 44 5 |  |  |  |  |

Disability benefits for WSPRS are paid out of a separate fund and are not reported as benefit payments from the retirement plan. *Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Survivors (Number of Survivors and Average Monthly Benefit) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 1 | 6 | 4 | 3 | 6 | 32 | 17 | 22 | 10 | 2 | 5 | 6 | 0 | 114 |
|  | * | \$1,616 | \$2,052 | \$2,563 | \$1,623 | \$1,448 | \$970 | \$929 | \$861 | \$348 | \$297 | \$229 | \$0 | \$1,163 |
| 50-54 | 0 | 0 | 0 | 2 | 4 | 13 | 22 | 9 | 2 | 3 | 2 | 0 | 1 | 58 |
|  | \$0 | \$0 | \$0 | \$1,384 | \$959 | \$2,019 | \$1,121 | \$922 | \$223 | \$552 | \$430 | \$0 | * | \$1,192 |
| 55-59 | 3 | 3 | 6 | 6 | 7 | 33 | 27 | 26 | 15 | 5 | 5 | 4 | 0 | 140 |
|  | \$2,236 | \$1,522 | \$1,852 | \$1,915 | \$1,984 | \$1,866 | \$1,257 | \$884 | \$762 | \$676 | \$590 | \$473 | \$0 | \$1,328 |
| 60-64 | 1 | 4 | 13 | 8 | 9 | 67 | 89 | 56 | 30 | 17 | 13 | 4 | 1 | 312 |
|  | * | \$1,648 | \$2,241 | \$2,648 | \$2,261 | \$1,878 | \$1,441 | \$969 | \$1,005 | \$705 | \$558 | \$540 | * | \$1,406 |
| 65-69 | 0 | 1 | 4 | 4 | 9 | 76 | 136 | 130 | 86 | 23 | 12 | 6 | 6 | 493 |
|  | \$0 | * | \$1,121 | \$2,688 | \$964 | \$1,878 | \$1,631 | \$1,151 | \$896 | \$680 | \$608 | \$425 | \$521 | \$1,309 |
| 70-74 | 0 | 0 | 0 | 2 | 4 | 52 | 128 | 175 | 144 | 48 | 41 | 13 | 10 | 617 |
|  | \$0 | \$0 | \$0 | \$3,048 | \$2,068 | \$1,650 | \$1,585 | \$1,383 | \$1,192 | \$908 | \$730 | \$584 | \$520 | \$1,301 |
| 75-79 | 0 | 0 | 1 | 1 | 1 | 17 | 83 | 225 | 280 | 128 | 82 | 20 | 21 | 859 |
|  | \$0 | \$0 | * | * | * | \$1,533 | \$1,610 | \$1,384 | \$1,215 | \$1,072 | \$856 | \$605 | \$445 | \$1,225 |
| 80-84 | 0 | 0 | 0 | 0 | 3 | 9 | 25 | 145 | 318 | 279 | 202 | 56 | 24 | 1,061 |
|  | \$0 | \$0 | \$0 | \$0 | \$2,739 | \$2,125 | \$1,727 | \$1,392 | \$1,264 | \$1,104 | \$981 | \$828 | \$476 | \$1,167 |
| 85-89 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 29 | 183 | 333 | 413 | 128 | 35 | 1,128 |
|  | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$1,406 | \$1,451 | \$1,225 | \$976 | \$967 | \$850 | \$669 | \$1,004 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 9 | 30 | 151 | 348 | 196 | 59 | 799 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,805 | \$1,965 | \$1,101 | \$1,359 | \$962 | \$813 | \$877 | \$800 | \$891 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 75 | 96 | 70 | 256 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,515 | \$1,131 | \$810 | \$654 | \$903 | \$800 |
| Total | 5 | 14 | 28 | 26 | 44 | 302 | 536 | 826 | 1,101 | 1,001 | 1,198 | 529 | 227 | 5,837 |
|  | \$1,826 | \$1,597 | \$1,961 | \$2,393 | \$1,876 | \$1,795 | \$1,528 | \$1,287 | \$1,191 | \$1,005 | \$886 | \$789 | \$723 | \$1,133 |
| Average: |  | Age | 79.2 |  |  |  |  |  | Males | 671 |  |  |  |  |
|  | Yea | Retired | 24.3 |  |  |  |  |  | Females | 5,166 |  |  |  |  |


| Age and Years Retired Distribution of Survivors (Number of Survivors and Average Monthly Benefit) (Continued) PERS Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 1 | 8 | 5 | 8 | 2 | 14 | 6 | 5 | 3 | 0 | 0 | 0 | 0 | 52 |
|  | * | \$566 | \$434 | \$473 | \$460 | \$470 | \$193 | \$199 | \$220 | \$0 | \$0 | \$0 | \$0 | \$408 |
| 50-54 | 8 | 18 | 12 | 8 | 5 | 29 | 7 | 5 | 1 | 0 | 0 | 0 | 0 | 93 |
|  | \$1,110 | \$1,070 | \$862 | \$1,116 | \$417 | \$466 | \$501 | \$466 | * | \$0 | \$0 | \$0 | \$0 | \$742 |
| 55-59 | 11 | 27 | 25 | 15 | 22 | 65 | 30 | 4 | 2 | 0 | 0 | 0 | 0 | 201 |
|  | \$1,488 | \$916 | \$869 | \$1,050 | \$896 | \$577 | \$506 | \$185 | \$108 | \$0 | \$0 | \$0 | \$0 | \$756 |
| 60-64 | 10 | 26 | 23 | 33 | 28 | 97 | 48 | 17 | 3 | 0 | 0 | 0 | 0 | 285 |
|  | \$1,352 | \$1,190 | \$1,274 | \$1,094 | \$1,035 | \$663 | \$469 | \$596 | \$546 | \$0 | \$0 | \$0 | \$0 | \$833 |
| 65-69 | 3 | 9 | 26 | 29 | 35 | 133 | 90 | 38 | 5 | 0 | 0 | 0 | 0 | 368 |
|  | \$948 | \$940 | \$1,338 | \$1,125 | \$845 | \$958 | \$641 | \$433 | \$426 | \$0 | \$0 | \$0 | \$0 | \$847 |
| 70-74 | 1 | 5 | 8 | 10 | 13 | 102 | 126 | 66 | 20 | 1 | 0 | 0 | 0 | 352 |
|  | * | \$1,588 | \$1,000 | \$924 | \$1,084 | \$884 | \$657 | \$446 | \$361 | * | \$0 | \$0 | \$0 | \$716 |
| 75-79 | 0 | 2 | 4 | 1 | 6 | 56 | 132 | 114 | 28 | 3 | 0 | 0 | 0 | 346 |
|  | \$0 | \$2,273 | \$934 | * | \$612 | \$814 | \$779 | \$545 | \$420 | \$312 | \$0 | \$0 | \$0 | \$685 |
| 80-84 | 0 | 0 | 1 | 1 | 1 | 12 | 46 | 111 | 63 | 4 | 0 | 0 | 0 | 239 |
|  | \$0 | \$0 | * | * | * | \$793 | \$767 | \$631 | \$505 | \$270 | \$0 | \$0 | \$0 | \$624 |
| 85-89 | 0 | 0 | 0 | 1 | 0 | 3 | 14 | 38 | 59 | 20 | 1 | 0 | 0 | 136 |
|  | \$0 | \$0 | \$0 | * | \$0 | \$1,039 | \$732 | \$672 | \$552 | \$467 | * | \$0 | \$0 | \$606 |
| 90-94 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 7 | 10 | 10 | 1 | 0 | 0 | 33 |
|  | \$0 | \$0 | \$0 | \$0 | * | \$528 | * | \$609 | \$469 | \$353 | * | \$0 | \$0 | \$458 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$315 |
| Total | 34 | 95 | 104 | 106 | 113 | 514 | 501 | 405 | 194 | 39 | 2 | 0 | 0 | 2,107 |
|  | \$1,323 | \$1,057 | \$1,061 | \$1,041 | \$883 | \$777 | \$663 | \$548 | \$479 | \$398 | \$140 | \$0 | \$0 | \$725 |
| Average: | Yea | Age Retired | $\begin{aligned} & 69.9 \\ & 10.8 \end{aligned}$ |  |  |  |  |  | Males males | $\begin{array}{r} 390 \\ 1,717 \end{array}$ |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Survivors (Number of Survivors and Average Monthly Benefit) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 50 | 0 | 1 | 2 | 3 | 4 | 5-9 | d Year | 15-19 | 20-24 | 25-29 |  | 35-39 40 \& Over |  | Total 13 |
|  | 0 | 2 | 3 | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|  | \$0 | \$608 | \$186 | \$0 | \$294 | \$244 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$294 |
| 50-54 | 0 | 4 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
|  | \$0 | \$244 | \$328 | \$331 | \$0 | \$184 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$266 |
| 55-59 | 2 | 3 | 4 | 4 | 4 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
|  | \$590 | \$325 | \$279 | \$576 | \$413 | \$240 | \$210 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$347 |
| 60-64 | 2 | 1 | 2 | 6 | 3 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
|  | \$288 | * | \$695 | \$403 | \$747 | \$262 | \$245 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$400 |
| 65-69 | 1 | 1 | 5 | 0 | 5 | 18 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
|  | * | * | \$480 | \$0 | \$385 | \$479 | \$240 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$424 |
| 70-74 | 0 | 0 | 1 | 0 | 1 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
|  | \$0 | \$0 | * | \$0 | * | \$450 | \$462 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$408 |
| 75-79 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
|  | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$320 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$431 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 5 | 11 | 17 | 13 | 15 | 53 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 130 |
|  | \$361 | \$435 | \$373 | \$473 | \$441 | \$351 | \$294 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$377 |
| Average: | Yea | Age etired | $\begin{array}{r} 60.3 \\ 5.3 \end{array}$ |  |  |  |  |  | Males males | 29 101 |  |  |  |  |

Defined benefit portion only.
*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Survivors (Number of Survivors and Average Monthly Benefit) (Continued) TRS Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 2 | 1 | 1 | 3 | 7 | 4 | 0 | 1 | 0 | 0 | 0 | 19 |
|  | \$0 | \$0 | \$2,480 | * | * | \$1,720 | \$1,418 | \$1,327 | \$0 | * | \$0 | \$0 | \$0 | \$1,783 |
| 50-54 | 0 | 0 | 0 | 1 | 0 | 4 | 6 | 4 | 2 | 1 | 1 | 1 | 0 | 20 |
|  | \$0 | \$0 | \$0 | * | \$0 | \$1,987 | \$1,586 | \$989 | \$672 | * | * | * | \$0 | \$1,400 |
| 55-59 | 0 | 1 | 0 | 1 | 0 | 10 | 7 | 11 | 11 | 3 | 4 | 1 | 0 | 49 |
|  | \$0 | * | \$0 | * | \$0 | \$2,401 | \$1,560 | \$1,306 | \$965 | \$623 | \$943 | * | \$0 | \$1,486 |
| 60-64 | 0 | 3 | 0 | 3 | 4 | 36 | 37 | 38 | 15 | 3 | 5 | 1 | 3 | 148 |
|  | \$0 | \$2,214 | \$0 | \$1,565 | \$2,291 | \$2,142 | \$1,673 | \$1,132 | \$999 | \$489 | \$772 | * | \$1,023 | \$1,530 |
| 65-69 | 1 | 0 | 1 | 1 | 3 | 35 | 72 | 71 | 42 | 11 | 10 | 6 | 5 | 258 |
|  | * | \$0 | * | * | \$3,147 | \$2,275 | \$1,751 | \$1,473 | \$1,275 | \$628 | \$670 | \$758 | \$1,104 | \$1,584 |
| 70-74 | 0 | 0 | 2 | 1 | 3 | 19 | 62 | 98 | 79 | 31 | 18 | 12 | 6 | 331 |
|  | \$0 | \$0 | \$1,795 | * | \$3,661 | \$1,694 | \$1,527 | \$1,662 | \$1,364 | \$950 | \$823 | \$604 | \$919 | \$1,424 |
| 75-79 | 0 | 1 | 0 | 0 | 0 | 9 | 26 | 95 | 169 | 80 | 48 | 16 | 7 | 451 |
|  | \$0 | * | \$0 | \$0 | \$0 | \$2,091 | \$1,824 | \$1,520 | \$1,535 | \$1,269 | \$976 | \$530 | \$862 | \$1,405 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 48 | 139 | 120 | 164 | 39 | 5 | 530 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,855 | \$1,589 | \$1,701 | \$1,437 | \$1,199 | \$1,105 | \$861 | \$840 | \$1,262 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 68 | 127 | 231 | 97 | 8 | 537 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,152 | \$1,485 | \$1,220 | \$1,118 | \$1,011 | \$863 | \$1,177 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 8 | 42 | 133 | 93 | 18 | 299 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$984 | \$1,453 | \$989 | \$1,013 | \$1,092 | \$1,016 | \$1,048 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 29 | 48 | 29 | 111 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$1,208 | \$814 | \$1,106 | \$1,167 | \$1,059 |
| Total | 1 | 5 | 5 | 8 | 11 | 120 | 229 | 380 | 533 | 423 | 643 | 314 | 81 | 2,753 |
|  | * | \$2,134 | \$2,668 | \$2,481 | \$3,103 | \$2,102 | \$1,657 | \$1,524 | \$1,426 | \$1,153 | \$1,049 | \$981 | \$1,029 | \$1,310 |
| Average: |  | Age | 79.3 |  |  |  |  |  | Males | 524 |  |  |  |  |
|  |  |  | 25.0 |  |  |  |  |  | Females | 2,229 |  |  |  |  |
| Monthly benefit omitted for privacy reasons. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

4: Appendices

| Age and Years Retired Distribution of Survivors (Number of Survivors and Average Monthly Benefit) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
|  | \$0 | \$0 | * | \$0 | \$0 | \$356 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$768 |
| 50-54 | 1 | 0 | 2 | 1 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 9 |
|  | * | \$0 | \$987 | * | \$0 | * | \$525 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$696 |
| 55-59 | 0 | 2 | 0 | 1 | 0 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 11 |
|  | \$0 | \$2,708 | \$0 | * | \$0 | \$653 | \$182 | \$530 | \$0 | \$0 | \$0 | \$0 | \$0 | \$906 |
| 60-64 | 0 | 0 | 1 | 2 | 0 | 10 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 15 |
|  | \$0 | \$0 | * | \$1,850 | \$0 | \$829 | * | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$962 |
| 65-69 | 0 | 3 | 2 | 1 | 3 | 12 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 32 |
|  | \$0 | \$1,945 | \$1,567 | * | \$1,213 | \$887 | \$603 | \$407 | * | \$0 | \$0 | \$0 | \$0 | \$1,004 |
| 70-74 | 0 | 0 | 1 | 0 | 1 | 4 | 10 | 6 | 1 | 0 | 0 | 0 | 0 | 23 |
|  | \$0 | \$0 | * | \$0 | * | \$1,104 | \$942 | \$670 | * | \$0 | \$0 | \$0 | \$0 | \$960 |
| 75-79 | 0 | 0 | 1 | 0 | 0 | 5 | 10 | 4 | 3 | 0 | 0 | 0 | 0 | 23 |
|  | \$0 | \$0 | * | \$0 | \$0 | \$1,485 | \$1,096 | \$747 | \$316 | \$0 | \$0 | \$0 | \$0 | \$1,024 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 10 | 3 | 0 | 0 | 0 | 0 | 18 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$834 | \$760 | \$506 | \$0 | \$0 | \$0 | \$0 | \$727 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | * | * | \$0 | \$0 | \$0 | \$0 | \$1,190 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 1 | 5 | 8 | 5 | 4 | 39 | 39 | 29 | 9 | 0 | 0 | 0 | 0 | 139 |
|  | * | \$2,250 | \$1,310 | \$1,494 | \$1,319 | \$913 | \$833 | \$725 | \$594 | \$0 | \$0 | \$0 | \$0 | \$932 |
| Average: | Year | Age <br> Retired | $\begin{aligned} & 69.0 \\ & 10.4 \end{aligned}$ |  |  |  |  |  | Males males | 62 77 |  |  |  |  |

*Monthly benefit omitted for privacy reasons.


Defined benefit portion only.
*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Survivors (Number of Survivors and Average Monthly Benefit) (Continued) SERS Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
|  | \$0 | * | * | \$0 | * | \$358 | \$308 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$392 |
| 50-54 | 0 | 0 | 3 | 2 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
|  | \$0 | \$0 | \$75 | \$372 | * | \$289 | \$224 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$322 |
| 55-59 | 2 | 3 | 3 | 3 | 2 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
|  | \$564 | \$311 | \$697 | \$213 | \$210 | \$485 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$423 |
| 60-64 | 0 | 7 | 6 | 1 | 5 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
|  | \$0 | \$417 | \$405 | * | \$837 | \$332 | \$280 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$438 |
| 65-69 | 4 | 7 | 5 | 4 | 10 | 17 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
|  | \$787 | \$548 | \$548 | \$796 | \$702 | \$604 | \$267 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$582 |
| 70-74 | 0 | 0 | 0 | 3 | 2 | 30 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
|  | \$0 | \$0 | \$0 | \$535 | \$564 | \$573 | \$384 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$507 |
| 75-79 | 0 | 0 | 0 | 1 | 0 | 13 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
|  | \$0 | \$0 | \$0 | * | \$0 | \$664 | \$500 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$559 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$321 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$429 |
| 85-89 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | \$0 | \$0 | \$0 | \$0 | * | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,211 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 6 | 18 | 18 | 14 | 22 | 86 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 220 |
|  | \$713 | \$475 | \$434 | \$476 | \$664 | \$560 | \$385 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$507 |
| Average: | Yea | Age etired | 66.4 6.4 |  |  |  |  |  | Males | 96 124 |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Survivors (Number of Survivors and Average Monthly Benefit) (Continued) SERS Plan 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
|  | \$0 | * | \$0 | \$0 | \$0 | \$138 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$151 |
| 50-54 | 1 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
|  | * | \$293 | * | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$224 |
| 55-59 | 2 | 0 | 2 | 2 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
|  | \$123 | \$0 | \$252 | \$227 | \$137 | \$312 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$230 |
| 60-64 | 0 | 1 | 3 | 4 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
|  | \$0 | * | \$268 | \$367 | \$289 | \$178 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$262 |
| 65-69 | 2 | 1 | 4 | 3 | 1 | 20 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
|  | \$315 | * | \$319 | \$326 | * | \$261 | \$182 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$277 |
| 70-74 | 0 | 2 | 0 | 0 | 0 | 17 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
|  | \$0 | \$298 | \$0 | \$0 | \$0 | \$248 | \$219 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$245 |
| 75-79 | 0 | 0 | 0 | 1 | 2 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
|  | \$0 | \$0 | \$0 | * | \$336 | \$212 | \$173 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$240 |
| 80-84 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 5 | 8 | 10 | 10 | 14 | 57 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 122 |
|  | \$211 | \$314 | \$277 | \$345 | \$270 | \$242 | \$188 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$252 |
| Average: |  | Age | 65.7 |  |  |  |  |  | Males | 62 |  |  |  |  |
|  | Years Retired 5.7 Females 60 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Defined benefit portion only.
*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Survivors (Number of Survivors and Average Monthly Benefit) (Continued) PSERS Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total |
| Under 50 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 55-59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 60-64 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | \$0 | \$0 | \$0 | * | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$75 |
| Average: |  | Age | 52.6 |  |  |  |  |  | Males | 0 |  |  |  |  |
|  | Years Retired |  | 3.2 |  |  |  |  |  | emales | 2 |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Survivors of Law Enforcement Officers (Number of Survivors and Average Monthly Benefit) <br> (Continued) <br> LEOFF Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total 7 |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 1 | 1 |  |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | * | \$2,695 | * | \$0 | * | * | \$2,069 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 5 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,649 | \$0 | \$2,688 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,472 |
| 55-59 | 0 | 1 | 0 | 0 | 0 | 2 | 10 | 11 | 5 | 7 | 1 | 1 | 0 | 38 |
|  | \$0 | * | \$0 | \$0 | \$0 | \$3,966 | \$3,464 | \$3,422 | \$3,635 | \$2,558 | * | * | \$0 | \$3,306 |
| 60-64 | 0 | 1 | 0 | 0 | 0 | 2 | 11 | 13 | 18 | 15 | 12 | 7 | 0 | 79 |
|  | \$0 | * | \$0 | \$0 | \$0 | \$6,407 | \$4,425 | \$4,097 | \$3,207 | \$2,964 | \$2,899 | \$2,315 | \$0 | \$3,445 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 20 | 20 | 30 | 26 | 13 | 2 | 126 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$6,414 | \$3,915 | \$3,697 | \$3,847 | \$3,176 | \$2,960 | \$3,453 | \$2,091 | \$3,480 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 13 | 36 | 28 | 32 | 8 | 8 | 130 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$6,236 | \$4,073 | \$3,734 | \$3,217 | \$3,039 | \$2,897 | \$2,824 | \$3,477 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 18 | 31 | 50 | 32 | 19 | 157 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,411 | \$3,962 | \$3,442 | \$2,963 | \$3,263 | \$2,760 | \$3,273 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 20 | 59 | 49 | 18 | 154 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,906 | \$3,759 | \$3,578 | \$3,261 | \$3,139 | \$2,673 | \$3,209 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 28 | 37 | 20 | 98 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$3,658 | \$3,448 | \$3,304 | \$2,890 |  |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 13 | 21 | 20 | 56 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,306 | \$3,012 | \$3,344 | \$3,266 | \$3,202 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 9 | 14$\$ 2,807$ |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | * | \$0 | \$3,194 | \$2,621 |  |
| Total | 0 | 2 | 0 | 0 | 0 | 10 | 38 | 70 | 107 | 147 | 221 | 172 | 97 | 864 |
|  | \$0 | \$4,105 | \$0 | \$0 | \$0 | \$5,591 | \$4,201 | \$3,791 | \$3,687 | \$3,255 | \$3,111 | \$3,187 | \$2,830 | \$3,324 |
| Average: $\begin{array}{r}\text { Age } \\ \end{array}$ |  |  | $\begin{aligned} & 75.3 \\ & 29.6 \end{aligned}$ |  |  |  |  |  | Males <br> Females | $\begin{array}{r} 10 \\ 854 \end{array}$ |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

| Age and Years Retired Distribution of Survivors of Fire Fighters (Number of Survivors and Average Monthly Benefit) (Continued) <br> LEOFF Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,792 | \$0 | \$0 | \$0 | \$0 | \$1,792 |
| 50-54 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 5 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,414 | \$0 | * | \$0 | \$0 | * | \$0 | \$2,913 |
| 55-59 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 5 | 3 | 2 | 0 | 4 | 0 | 19 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$6,101 | \$4,132 | \$2,856 | \$3,637 | \$2,939 | \$0 | \$1,849 | \$0 | \$3,423 |
| 60-64 | 0 | 0 | 0 | 0 | 0 | 2 | 11 | 15 | 5 | 6 | 4 | 0 | 0 | 43 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,716 | \$4,193 | \$3,824 | \$3,337 | \$3,346 | \$2,993 | \$0 | \$0 | \$3,759 |
| 65-69 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 16 | 19 | 20 | 9 | 7 | 2 | 84 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$4,595 | \$3,697 | \$3,743 | \$3,486 | \$2,945 | \$3,341 | \$3,120 | \$3,643 |
| 70-74 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 17 | 22 | 13 | 17 | 11 | 6 | 88 |
|  | \$0 | \$0 | * | \$0 | \$0 | * | \$0 | \$4,002 | \$3,552 | \$3,486 | \$3,279 | \$3,574 | \$3,201 | \$3,595 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 13 | 22 | 35 | 24 | 13 | 112 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,191 | \$4,569 | \$3,135 | \$3,273 | \$3,418 | \$2,924 | \$3,428 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 18 | 43 | 30 | 23 | 115 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$4,566 | \$3,640 | \$3,215 | \$3,019 | \$3,561 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 25 | 60 | 28 | 116 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,494 | \$3,967 | \$3,950 | \$3,142 | \$3,799 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 23 | 27 | 58 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,190 | \$3,746 | \$3,952 | \$3,468 | \$3,714 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 9 | 13 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,494 | \$3,386 | \$3,419 |
| Total | 0 | 0 | 1 | 0 | 0 | 7 | 26 | 58 | 66 | 86 | 139 | 164 | 108 | 655 |
|  | \$0 | \$0 | * | \$0 | \$0 | \$5,104 | \$4,253 | \$3,789 | \$3,753 | \$3,686 | \$3,503 | \$3,609 | \$3,194 | \$3,605 |
| Average: |  | Age | 77.6 |  |  |  |  |  | Males | 5 |  |  |  |  |
|  | Yea | tired | 30.8 |  |  |  |  |  | Females | 650 |  |  |  |  |


| Age and Years Retired Distribution of Survivors of Law Enforcement Officers (Number of Survivors and Average Monthly Benefit) <br> (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 1 | 3 | 15 | 5 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
|  | \$0 | * | \$1,023 | \$777 | \$1,528 | \$1,790 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,149 |
| 50-54 | 1 | 1 | 4 | 6 | 1 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
|  | * | * | \$3,958 | \$1,243 | * | \$1,994 | \$1,291 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,105 |
| 55-59 | 1 | 1 | 0 | 9 | 5 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
|  | * | * | \$0 | \$437 | \$1,916 | \$2,059 | \$1,183 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,502 |
| 60-64 | 0 | 1 | 0 | 2 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
|  | \$0 | * | \$0 | \$2,043 | \$0 | \$2,484 | \$1,458 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,367 |
| 65-69 | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
|  | \$0 | \$0 | \$0 | \$1,846 | \$1,166 | \$3,225 | \$863 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,829 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,111 | \$1,069 | \$1,135 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,438 |
| 75-79 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
|  | \$0 | \$0 | \$0 | * | \$0 | \$0 | * | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$800 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | $0$ | $0$ | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 2 | 4 | 7 | 35 | 13 | 31 | 16 | 2 | 1 | 0 | 0 | 0 | 0 | 111 |
|  | \$3,303 | \$2,370 | \$2,700 | \$885 | \$1,601 | \$2,174 | \$1,312 | \$1,135 | * | \$0 | \$0 | \$0 | \$0 | \$1,602 |
| Average: |  | Age | 54.4 |  |  |  |  |  | Males | 2 |  |  |  |  |
|  | Yea | Retired | 5.8 |  |  |  |  |  | emales | 109 |  |  |  |  |


| Age and Years Retired Distribution of Survivors of Fire Fighters (Number of Survivors and Average Monthly Benefit) (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LEOFF Plan 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 1 | 4 | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
|  | \$0 | * | \$1,809 | \$743 | * | \$1,870 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,599 |
| 50-54 | 1 | 0 | 1 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
|  | * | \$0 | * | * | * | \$4,530 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,914 |
| 55-59 | 0 | 1 | 0 | 4 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
|  | \$0 | * | \$0 | \$2,837 | * | \$2,008 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,460 |
| 60-64 | 1 | 0 | 0 | 2 | 3 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 14 |
|  | * | \$0 | \$0 | \$2,435 | \$2,586 | \$2,478 | \$2,452 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,565 |
| 65-69 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
|  | \$0 | \$0 | * | \$0 | * | \$3,191 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,461 |
| 70-74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$809 | \$0 | \$0 | \$0 | \$0 | \$0 | \$809 |
| 80-84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | \$0 | * |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | * |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | 2 | 2 | 6 | 10 | 7 | 18 | 3 | 5 | 1 | 0 | 0 | 0 | 0 | 54 |
|  | \$3,110 | \$2,780 | \$2,477 | \$2,588 | \$2,832 | \$2,781 | \$2,452 | \$668 | * | \$0 | \$0 | \$0 | \$0 | \$2,491 |
| Average: | Yea | Age Retired | $\begin{array}{r} 56.1 \\ 6.5 \end{array}$ |  |  |  |  |  | Males males | 1 53 |  |  |  |  |

*Monthly benefit omitted for privacy reasons.
4: Appendices

| Age and Years Retired Distribution of Survivors (Number of Survivors and Average Monthly Benefit) (Continued) <br> WSPRS Plan 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained Age | Attained Years Retired |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 \& Over | Total |
| Under 50 | 0 | 0 | 1 | 0 | 1 | 4 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 9 |
|  | \$0 | \$0 | * | \$0 | * | \$3,853 | * | * | * | \$0 | \$0 | \$0 | \$0 | \$3,198 |
| 50-54 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
|  | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | \$2,302 |
| 55-59 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 7 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,710 | \$0 | * | \$2,339 | * | \$0 | \$0 | \$0 | \$2,906 |
| 60-64 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 3 | 0 | 0 | 1 | 0 | 9 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,998 | \$3,724 | \$2,150 | \$0 | \$0 | * | \$0 | \$2,749 |
| 65-69 | 0 | 1 | 0 | 0 | 0 | 5 | 1 | 7 | 12 | 4 | 2 | 2 | 0 | 34 |
|  | \$0 | * | \$0 | \$0 | \$0 | \$3,954 | * | \$2,930 | \$2,652 | \$2,529 | \$1,290 | \$798 | \$0 | \$2,810 |
| 70-74 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 6 | 3 | 5 | 1 | 1 | 20 |
|  | \$0 | \$0 | \$0 | * | \$0 | \$0 | * | \$2,289 | \$2,671 | \$2,436 | \$1,836 | * | * | \$2,238 |
| 75-79 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 3 | 7 | 2 | 0 | 19 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | * | * | \$2,236 | \$2,071 | \$1,934 | \$1,406 | \$0 | \$2,095 |
| 80-84 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 5 | 8 | 3 | 0 | 22 |
|  | \$0 | \$0 | * | \$0 | \$0 | * | * | * | \$3,286 | \$2,482 | \$1,934 | \$1,085 | \$0 | \$2,238 |
| 85-89 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 3 | 2 | 3 | 10 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | * | * | \$0 | \$0 | \$2,003 | \$1,225 | \$916 | \$1,649 |
| 90-94 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 3 | 5 | 10 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | * | \$0 | \$0 | \$0 | * | \$0 | \$1,805 | \$803 | \$1,402 |
| 95 \& Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
|  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,009 | \$1,009 |
| Total | 0 | 1 | 2 | 1 | 2 | 15 | 8 | 17 | 30 | 18 | 25 | 14 | 13 | 146 |
|  | \$0 | * | \$2,996 | * | \$2,351 | \$3,664 | \$3,623 | \$2,816 | \$2,568 | \$2,287 | \$1,871 | \$1,270 | \$883 | \$2,345 |
| Average: | Yea | Age | $\begin{aligned} & 72.9 \\ & 24.1 \end{aligned}$ |  |  |  |  |  | Males Females | 1 145 |  |  |  |  |

*Monthly benefit omitted for privacy reasons.

## Historical Data

| Historical Data |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in millions) | 2013 |  | 2012 |  | 2011 |  | 2010 |  | 2009 |  | 2008 |  |
| PERS | Plan 1 | Plan $2 / 3{ }^{1}$ | Plan 1 | Plan $2 / 3^{1}$ | Plan 1 | Plan $2 / 3^{1}$ | Plan 1 | Plan $2 / 3{ }^{1}$ | Plan 1 | Plan $2 / 3^{1}$ | Plan 1 | Plan $2 / 3{ }^{1}$ |
| Contribution Information |  |  |  |  |  |  |  |  |  |  |  |  |
| Employer Rate | 12.29\% | 12.29\% | 9.15\% | 9.15\% | 9.03\% | 9.03\% | 8.41\% | 8.41\% | 8.45\% | 8.45\% | 5.84\% | 5.84\% |
| Employee Rate | 6.00\% | 7.00\% | 6.00\% | 4.83\% | 6.00\% | 4.92\% | 6.00\% | 4.91\% | 6.00\% | 4.59\% | 6.00\% | 4.45\% |
| Funded Status |  |  |  |  |  |  |  |  |  |  |  |  |
| Projected Unit Credit Liability | \$12,884 | \$23,798 | \$12,368 | \$20,347 | \$12,567 | \$18,815 | \$12,531 | \$17,272 | \$13,945 | \$15,701 | \$13,915 | \$14,065 |
| Market Value of Assets | \$7,347 | \$23,459 | \$7,374 | \$20,678 | \$8,178 | \$20,097 | \$7,624 | \$16,367 | \$7,565 | \$14,177 | \$10,646 | \$17,661 |
| Actuarial Value of Assets | \$8,053 | \$24,335 | \$8,521 | \$22,653 | \$8,883 | \$20,997 | \$9,293 | \$19,474 | \$9,776 | \$18,260 | \$9,853 | \$16,693 |
| Unfunded Liability | \$4,831 | (\$537) | \$3,847 | $(\$ 2,306)$ | \$3,684 | $(\$ 2,182)$ | \$3,238 | $(\$ 2,202)$ | \$4,169 | $(\$ 2,560)$ | \$4,062 | (\$2,627) |
| Funded Ratio | 62.5\% | 102.3\% | 68.9\% | 111.3\% | 70.7\% | 111.6\% | 74.2\% | 112.7\% | 70.1\% | 116.3\% | 70.8\% | 118.7\% |
| Participant Data |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of Actives | 5,653 | 145,053 | 6,635 | 143,955 | 7,733 | 144,684 | 9,007 | 147,519 | 10,354 | 148,881 | 11,663 | 150,005 |
| Total Annual Salaries | \$318 | \$8,339 | \$371 | \$8,193 | \$432 | \$8,148 | \$507 | \$8,206 | \$580 | \$8,132 | \$639 | \$7,869 |
| Number of Terminated Vested | 1,384 | 29,663 | 1,594 | 28,921 | 1,789 | 28,136 | 1,979 | 26,881 | 2,125 | 25,949 | 2,271 | 24,996 |
| Number of Terminated, Not Vested | 3,810 | 97,381 | 4,042 | 95,834 | 4,225 | 94,340 | 4,412 | 92,421 | 4,563 | 90,339 | 4,696 | 87,437 |
| Number of Retirees and Beneficiaries | 51,860 | 33,468 | 52,672 | 29,570 | 53,264 | 26,099 | 53,742 | 23,157 | 54,147 | 20,710 | 54,581 | 18,541 |
| Total Annual Benefits | \$1,177 | \$491 | \$1,169 | \$401 | \$1,152 | \$331 | \$1,113 | \$268 | \$1,074 | \$219 | \$1,036 | \$179 |
| Assumptions |  |  |  |  |  |  |  |  |  |  |  |  |
| Valuation Interest Rate | 7.90\% | 7.90\% | 7.90\% | 7.90\% | 8.00\% | 8.00\% | 8.00\% | 8.00\% | 8.00\% | 8.00\% | 8.00\% | 8.00\% |
| Salary Increase | 4.03\% | 4.95\% | 4.05\% | 4.99\% | 4.31\% | 5.35\% | 4.32\% | 5.48\% | 4.33\% | 5.57\% | 4.58\% | 5.81\% |
| Inflation ${ }^{2}$ | 3.00\% | 3.00\% | 3.00\% | 3.00\% | 3.50\% | 3.50\% | 3.50\% | 3.50\% | 3.50\% | 3.50\% | 3.50\% | 3.50\% |
| Growth in Membership | 0.95\% | 0.95\% | 0.95\% | 0.95\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% |
| Actuarial Experience |  |  |  |  |  |  |  |  |  |  |  |  |
| Return on Market Value | 12.45\% | 12.34\% | 1.13\% | 1.42\% | 21.37\% | 21.16\% | 13.81\% | 13.13\% | (23.16\%) | (22.70\%) | (1.08\%) | (1.27\%) |
| Return on Actuarial Value | 5.24\% | 6.40\% | 6.25\% | 6.43\% | 6.36\% | 6.43\% | 4.71\% | 4.84\% | 6.63\% | 5.85\% | 9.62\% | 9.82\% |
| Salary Increase | 1.89\% | 2.86\% | 1.00\% | 2.00\% | 0.89\% | 1.93\% | 1.72\% | 2.66\% | 3.82\% | 4.72\% | 6.27\% | 8.46\% |
| Inflation | 2.54\% | 2.54\% | 3.17\% | 3.17\% | 0.78\% | 0.78\% | 0.44\% | 0.44\% | 4.48\% | 4.48\% | 3.79\% | 3.79\% |
| Growth in Membership | (1.12\%) | (1.12\%) | (1.20\%) | (1.20\%) | (2.63\%) | (2.63\%) | (3.18\%) | (3.18\%) | (1.50\%) | (1.50\%) | 2.31\% | 2.31\% |
| COLA ${ }^{3}$ | \$2.06 | 2.54\%-3\% | \$2.00 | 3.00\% | \$1.94 | 0.78\%-3\% | \$1.88 | 0.44\%-3\% | \$1.83 | 3.00\% | \$1.73 | 3.00\% |

Note: See footnotes at the end of this section.


Note: See footnotes at the end of this section.

| Historical Data (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in millions) | 2013 |  | 2012 |  | 2011 |  | 2010 |  | 2009 |  | 2008 |  |
| SERS | Plan 1 | Plan 2/3 ${ }^{1}$ | Plan 1 | Plan $2 / 3^{1}$ | Plan 1 | Plan 2/3 ${ }^{1}$ | Plan 1 | Plan $2 / 3^{1}$ | Plan 1 | Plan $2 / 3^{1}$ | Plan 1 | Plan 2/3 ${ }^{1}$ |
| Contribution Information |  |  |  |  |  |  |  |  |  |  |  |  |
| Employer Rate | N/A | 12.88\% | N/A | 9.80\% | N/A | 9.64\% | N/A | 8.76\% | N/A | 8.83\% | N/A | 5.79\% |
| Employee Rate | N/A | 6.70\% | N/A | 4.59\% | N/A | 4.64\% | N/A | 4.37\% | N/A | 4.08\% | N/A | 3.51\% |
| Funded Status |  |  |  |  |  |  |  |  |  |  |  |  |
| Projected Unit Credit Liability | N/A | \$3,273 | N/A | \$2,820 | N/A | \$2,607 | N/A | \$2,368 | N/A | \$2,163 | N/A | \$1,906 |
| Market Value of Assets | N/A | \$3,212 | N/A | \$2,827 | N/A | \$2,746 | N/A | \$2,237 | N/A | \$1,944 | N/A | \$2,443 |
| Actuarial Value of Assets | N/A | \$3,335 | N/A | \$3,100 | N/A | \$2,872 | N/A | \$2,664 | N/A | \$2,503 | N/A | \$2,303 |
| Unfunded Liability | N/A | (\$62) | N/A | (\$280) | N/A | (\$265) | N/A | (\$296) | N/A | (\$340) | N/A | (\$397) |
| Funded Ratio | N/A | 101.9\% | N/A | 109.9\% | N/A | 110.2\% | N/A | 112.5\% | N/A | 115.7\% | N/A | 120.8\% |
| Participant Data |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of Actives | N/A | 52,295 | N/A | 51,558 | N/A | 52,332 | N/A | 52,339 | N/A | 52,474 | N/A | 51,774 |
| Total Annual Salaries | N/A | \$1,514 | N/A | \$1,479 | N/A | \$1,490 | N/A | \$1,475 | N/A | \$1,467 | N/A | \$1,380 |
| Number of Terminated Vested | N/A | 11,588 | N/A | 10,920 | N/A | 10,262 | N/A | 9,700 | N/A | 9,193 | N/A | 8,600 |
| Number of Terminated, Not Vested | N/A | 8,861 | N/A | 8,143 | N/A | 7,317 | N/A | 6,668 | N/A | 5,976 | N/A | 5,383 |
| Number of Retirees and Beneficiaries | N/A | 9,079 | N/A | 7,651 | N/A | 6,428 | N/A | 5,384 | N/A | 4,629 | N/A | 3,873 |
| Total Annual Benefits | N/A | \$67 | N/A | \$54 | N/A | \$44 | N/A | \$35 | N/A | \$29 | N/A | \$23 |
| Assumptions |  |  |  |  |  |  |  |  |  |  |  |  |
| Valuation Interest Rate | N/A | 7.90\% | N/A | 7.90\% | N/A | 8.00\% | N/A | 8.00\% | N/A | 8.00\% | N/A | 8.00\% |
| Salary Increase | N/A | 5.05\% | N/A | 5.07\% | N/A | 5.37\% | N/A | 5.50\% | N/A | 5.59\% | N/A | 5.84\% |
| Inflation ${ }^{2}$ | N/A | 3.00\% | N/A | 3.00\% | N/A | 3.50\% | N/A | 3.50\% | N/A | 3.50\% | N/A | 3.50\% |
| Growth in Membership | N/A | 0.95\% | N/A | 0.95\% | N/A | 1.25\% | N/A | 1.25\% | N/A | 1.25\% | N/A | 1.25\% |
| Actuarial Experience |  |  |  |  |  |  |  |  |  |  |  |  |
| Return on Market Value | N/A | 12.36\% | N/A | 1.42\% | N/A | 21.19\% | N/A | 13.14\% | N/A | (22.85\%) | N/A | (1.26\%) |
| Return on Actuarial Value | N/A | 6.37\% | N/A | 6.42\% | N/A | 6.42\% | N/A | 4.87\% | N/A | 5.99\% | N/A | 9.85\% |
| Salary Increase | N/A | 3.72\% | N/A | 2.26\% | N/A | 3.02\% | N/A | 2.47\% | N/A | 7.27\% | N/A | 8.34\% |
| Inflation | N/A | 2.54\% | N/A | 3.17\% | N/A | 0.78\% | N/A | 0.44\% | N/A | 4.48\% | N/A | 3.79\% |
| Growth in Membership | N/A | (0.07\%) | N/A | (1.48\%) | N/A | (0.01\%) | N/A | 1.09\% | N/A | 1.35\% | N/A | 1.87\% |
| COLA ${ }^{3}$ | N/A | 2.54\%-3\% | N/A | 3.00\% | N/A | 0.78\%-3\% | N/A | 0.44\%-3\% | N/A | 3.00\% | N/A | 3.00\% |

Note: See footnotes at the end of this section.

| Historical Data (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in millions) | 2013 |  | 2012 |  | 2011 |  | 2010 |  | 2009 |  | 2008 |  |
| PSERS | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 |
| Contribution Information |  |  |  |  |  |  |  |  |  |  |  |  |
| Employer Rate | N/A | 12.07\% | N/A | 10.28\% | N/A | 10.22\% | N/A | 9.71\% | N/A | 10.11\% | N/A | 7.73\% |
| Employee Rate | N/A | 6.89\% | N/A | 6.07\% | N/A | 6.22\% | N/A | 6.32\% | N/A | 6.36\% | N/A | 6.45\% |
| Funded Status |  |  |  |  |  |  |  |  |  |  |  |  |
| Projected Unit Credit Liability | N/A | \$180 | N/A | \$135 | N/A | \$107 | N/A | \$80 | N/A | \$54 | N/A | \$30 |
| Market Value of Assets | N/A | \$226 | N/A | \$174 | N/A | \$143 | N/A | \$93 | N/A | \$56 | N/A | \$37 |
| Actuarial Value of Assets | N/A | \$224 | N/A | \$180 | N/A | \$141 | N/A | \$103 | N/A | \$69 | N/A | \$39 |
| Unfunded Liability | N/A | (\$44) | N/A | (\$45) | N/A | (\$34) | N/A | (\$23) | N/A | (\$15) | N/A | (\$8) |
| Funded Ratio | N/A | 124.4\% | N/A | 133.6\% | N/A | 131.7\% | N/A | 128.5\% | N/A | 128.1\% | N/A | 127.4\% |
| Participant Data |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of Actives | N/A | 4,513 | N/A | 4,250 | N/A | 4,187 | N/A | 4,210 | N/A | 4,340 | N/A | 3,981 |
| Total Annual Salaries | N/A | \$253 | N/A | \$238 | N/A | \$233 | N/A | \$227 | N/A | \$223 | N/A | \$200 |
| Number of Terminated Vested | N/A | 119 | N/A | 60 | N/A | 1 | N/A | 0 | N/A | 0 | N/A | 0 |
| Number of Terminated, Not Vested | N/A | 1,383 | N/A | 1,329 | N/A | 1,210 | N/A | 1,075 | N/A | 762 | N/A | 397 |
| Number of Retirees and Beneficiaries | N/A | 43 | N/A | 27 | N/A | 15 | N/A | 7 | N/A | 2 | N/A | 1 |
| Total Annual Benefits | N/A | \$0 | N/A | \$0 | N/A | \$0 | N/A | \$0 | N/A | \$0 | N/A | \$0 |
| Assumptions |  |  |  |  |  |  |  |  |  |  |  |  |
| Valuation Interest Rate | N/A | 7.90\% | N/A | 7.90\% | N/A | 8.00\% | N/A | 8.00\% | N/A | 8.00\% | N/A | 8.00\% |
| Salary Increase | N/A | 5.58\% | N/A | 5.78\% | N/A | 6.39\% | N/A | 6.83\% | N/A | 7.02\% | N/A | 6.65\% |
| Inflation ${ }^{2}$ | N/A | 3.00\% | N/A | 3.00\% | N/A | 3.50\% | N/A | 3.50\% | N/A | 3.50\% | N/A | 3.50\% |
| Growth in Membership | N/A | 0.95\% | N/A | 0.95\% | N/A | 1.25\% | N/A | 1.25\% | N/A | 1.25\% | N/A | 1.25\% |
| Actuarial Experience |  |  |  |  |  |  |  |  |  |  |  |  |
| Return on Market Value | N/A | 12.06\% | N/A | 1.80\% | N/A | 20.35\% | N/A | 10.82\% | N/A | (19.25\%) | N/A | (3.73\%) |
| Return on Actuarial Value | N/A | 7.48\% | N/A | 7.22\% | N/A | 7.38\% | N/A | 4.91\% | N/A | 3.69\% | N/A | 6.64\% |
| Salary Increase | N/A | 2.96\% | N/A | 2.16\% | N/A | 3.28\% | N/A | 4.63\% | N/A | 4.86\% | N/A | 12.52\% |
| Inflation | N/A | 2.54\% | N/A | 3.17\% | N/A | 0.78\% | N/A | 0.44\% | N/A | 4.48\% | N/A | 3.79\% |
| Growth in Membership | N/A | 7.79\% | N/A | 1.50\% | N/A | (0.55\%) | N/A | 5.75\% | N/A | 9.02\% | N/A | 44.50\% |
| COLA ${ }^{3}$ | N/A | 2.54\%-3\% | N/A | 3.00\% | N/A | 0.78\%-3\% | N/A | 0.44\%-3\% | N/A | 3.00\% | N/A | 3.00\% |

Note: See footnotes at the end of this section.

| Historical Data (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in millions) | 2013 |  | 2012 |  | 2011 |  | $2010^{4}$ |  | 2009 |  | 2008 |  |
| LEOFF | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 |
| Contribution Information |  |  |  |  |  |  |  |  |  |  |  |  |
| Employer Rate | 0.00\% | 4.78\% | 0.00\% | 4.64\% | 0.00\% | 4.54\% | 0.00\% | 4.54\% | 0.00\% | 4.44\% | 0.00\% | 4.34\% |
| State Rate | 0.00\% | 3.19\% | 0.00\% | 3.10\% | 0.00\% | 3.03\% | 0.00\% | 3.03\% | 0.00\% | 2.96\% | 0.00\% | 2.89\% |
| Employee Rate | 0.00\% | 7.97\% | 0.00\% | 7.74\% | 0.00\% | 7.57\% | 0.00\% | 7.57\% | 0.00\% | 7.40\% | 0.00\% | 7.23\% |
| Funded Status |  |  |  |  |  |  |  |  |  |  |  |  |
| Projected Unit Credit Liability | \$4,410 | \$6,859 | \$4,121 | \$6,071 | \$4,135 | \$5,576 | \$4,381 | \$5,078 | \$4,477 | \$4,349 | \$4,354 | \$3,786 |
| Market Value of Assets | \$5,140 | \$7,637 | \$4,903 | \$6,640 | \$5,185 | \$6,366 | \$4,585 | \$5,081 | \$4,355 | \$4,309 | \$6,035 | \$5,315 |
| Actuarial Value of Assets | \$5,516 | \$7,862 | \$5,562 | \$7,222 | \$5,565 | \$6,621 | \$5,561 | \$6,043 | \$5,612 | \$5,564 | \$5,592 | \$5,053 |
| Unfunded Liability | $(\$ 1,107)$ | $(\$ 1,003)$ | $(\$ 1,440)$ | $(\$ 1,150)$ | (\$1,430) | $(\$ 1,044)$ | $(\$ 1,180)$ | (\$965) | $(\$ 1,135)$ | (\$1,215) | (\$1,238) | (\$1,266) |
| Funded Ratio | 125.1\% | 114.6\% | 134.9\% | 118.9\% | 134.6\% | 118.7\% | 126.9\% | 119.0\% | 125.4\% | 127.9\% | 128.4\% | 133.4\% |
| Participant Data |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of Actives | 143 | 16,687 | 186 | 16,720 | 250 | 16,805 | 301 | 16,775 | 356 | 16,951 | 421 | 16,626 |
| Total Annual Salaries | \$15 | \$1,597 | \$19 | \$1,560 | \$25 | \$1,535 | \$29 | \$1,490 | \$33 | \$1,443 | \$37 | \$1,345 |
| Number of Terminated Vested | 1 | 698 | 0 | 689 | 1 | 655 | 1 | 781 | 2 | 672 | 1 | 649 |
| Number of Terminated, Not Vested | 35 | 1,565 | 41 | 1,558 | 44 | 1,617 | 46 | 1,707 | 54 | 1,663 | 55 | 1,531 |
| Number of Retirees and Beneficiaries | 7,729 | 2,782 | 7,845 | 2,344 | 7,932 | 2,015 | 8,008 | 1,639 | 8,087 | 1,367 | 8,134 | 1,134 |
| Total Annual Benefits | \$356 | \$105 | \$350 | \$82 | \$340 | \$65 | \$339 | \$49 | \$338 | \$38 | \$322 | \$29 |
| Assumptions |  |  |  |  |  |  |  |  |  |  |  |  |
| Valuation Interest Rate | 7.90\% | 7.50\% | 7.90\% | 7.50\% | 8.00\% | 7.50\% | 8.00\% | 8.00\% | 8.00\% | 8.00\% | 8.00\% | 8.00\% |
| Salary Increase | 3.75\% | 5.30\% | 3.75\% | 5.43\% | 4.00\% | 5.61\% | 4.01\% | 6.55\% | 4.01\% | 6.61\% | 4.26\% | 6.61\% |
| Inflation ${ }^{2}$ | 3.00\% | 3.00\% | 3.00\% | 3.00\% | 3.50\% | 3.00\% | 3.50\% | 3.50\% | 3.50\% | 3.50\% | 3.50\% | 3.50\% |
| Growth in Membership | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% | 1.25\% |
| Actuarial Experience |  |  |  |  |  |  |  |  |  |  |  |  |
| Return on Market Value | 12.41\% | 12.31\% | 1.23\% | 1.45\% | 21.29\% | 21.08\% | 13.59\% | 12.99\% | (23.14\%) | (22.64\%) | (1.11\%) | (1.33\%) |
| Return on Actuarial Value | 5.66\% | 6.41\% | 6.28\% | 6.25\% | 6.35\% | 6.15\% | 5.24\% | 4.84\% | 6.38\% | 5.72\% | 11.82\% | 11.04\% |
| Salary Increase | 1.37\% | 3.91\% | 1.48\% | 3.22\% | 1.31\% | 3.48\% | 3.45\% | 5.35\% | 5.27\% | 6.69\% | 4.66\% | 7.65\% |
| Inflation | 2.54\% | 2.54\% | 3.17\% | 3.17\% | 0.78\% | 0.78\% | 0.44\% | 0.44\% | 4.48\% | 4.48\% | 3.79\% | 3.79\% |
| Growth in Membership | (1.32\%) | (1.32\%) | (0.87\%) | (0.87\%) | (0.12\%) | (0.12\%) | 0.17\% | 0.17\% | 1.53\% | 1.53\% | 2.62\% | 2.62\% |
| COLA ${ }^{3}$ | 2.54\% | 2.54\%-3\% | 3.17\% | 3.00\% | 0.78\% | 0.78\%-3\% | 0.44\% | 0.44\%-3\% | 4.48\% | 3.00\% | 3.79\% | 3.00\% |

Note: See footnotes at the end of this section.

| Historical Data (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Dollars in millions) | 2013 |  | 2012 |  | 2011 |  | 20104 |  | 2009 |  | 2008 |  |
| WSPRS | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 | Plan 1 | Plan 2 |
| Contribution Information |  |  |  |  |  |  |  |  |  |  |  |  |
| Employer Rate | 8.79\% | 8.79\% | 7.76\% | 7.76\% | 7.63\% | 7.63\% | 7.71\% | 7.71\% | 7.93\% | 7.93\% | 6.27\% | 6.27\% |
| Employee Rate | 7.19\% | 7.19\% | 6.44\% | 6.44\% | 6.31\% | 6.31\% | 6.39\% | 6.39\% | 6.61\% | 6.61\% | 4.95\% | 4.95\% |
| Funded Status |  |  |  |  |  |  |  |  |  |  |  |  |
| Projected Unit Credit Liability | \$959 | N/A | \$859 | N/A | \$829 | N/A | \$782 | N/A | \$759 | N/A | \$719 | N/A |
| Market Value of Assets | \$956 | N/A | \$879 | N/A | \$895 | N/A | \$764 | N/A | \$698 | N/A | \$932 | N/A |
| Actuarial Value of Assets | \$1,009 | N/A | \$982 | N/A | \$949 | N/A | \$920 | N/A | \$900 | N/A | \$870 | N/A |
| Unfunded Liability | (\$50) | N/A | (\$123) | N/A | (\$120) | N/A | (\$137) | N/A | (\$142) | N/A | (\$150) | N/A |
| Funded Ratio | 105.3\% | N/A | 114.3\% | N/A | 114.5\% | N/A | 117.5\% | N/A | 118.7\% | N/A | 120.9\% | N/A |
| Participant Data |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of Actives | 657 | 409 | 712 | 354 | 767 | 315 | 806 | 281 | 830 | 264 | 851 | 234 |
| Total Annual Salaries | \$54 | \$27 | \$57 | \$23 | \$61 | \$20 | \$65 | \$18 | \$67 | \$17 | \$65 | \$13 |
| Number of Terminated Vested | 70 | 10 | 71 | 8 | 66 | 6 | 66 | 6 | 69 | 4 | 61 | 2 |
| Number of Terminated, Not Vested | 18 | 14 | 18 | 13 | 19 | 11 | 20 | 8 | 22 | 10 | 22 | 7 |
| Number of Disabled Members ${ }^{5}$ | 49 | 0 | 49 | 0 | 51 | 0 | 53 | 0 | 53 | 0 | 55 | 0 |
| Number of Retirees and Beneficiaries | 964 | 0 | 915 | 0 | 875 | 0 | 851 | 0 | 834 | 0 | 831 | 0 |
| Total Annual Benefits | \$45 | \$0 | \$41 | \$0 | \$39 | \$0 | \$37 | \$0 | \$35 | \$0 | \$33 | \$0 |
| Assumptions |  |  |  |  |  |  |  |  |  |  |  |  |
| Valuation Interest Rate | 7.90\% | N/A | 7.90\% | N/A | 8.00\% | N/A | 8.00\% | N/A | 8.00\% | N/A | 8.00\% | N/A |
| Salary Increase | 5.09\% | N/A | 5.01\% | N/A | 5.22\% | N/A | 5.26\% | N/A | 5.35\% | N/A | 5.47\% | N/A |
| Inflation ${ }^{2}$ | 3.00\% | N/A | 3.00\% | N/A | 3.50\% | N/A | 3.50\% | N/A | 3.50\% | N/A | 3.50\% | N/A |
| Growth in Membership | 0.95\% | N/A | 0.95\% | N/A | 1.25\% | N/A | 1.25\% | N/A | 1.25\% | N/A | 1.25\% | N/A |
| Actuarial Experience |  |  |  |  |  |  |  |  |  |  |  |  |
| Return on Market Value | 12.37\% | N/A | 1.31\% | N/A | 21.23\% | N/A | 13.39\% | N/A | (22.98\%) | N/A | (1.17\%) | N/A |
| Return on Actuarial Value | 5.99\% | N/A | 6.34\% | N/A | 6.38\% | N/A | 5.07\% | N/A | 6.18\% | N/A | 11.60\% | N/A |
| Salary Increase | 3.10\% | N/A | 2.33\% | N/A | 1.20\% | N/A | 1.23\% | N/A | 5.86\% | N/A | 7.86\% | N/A |
| Inflation | 2.54\% | N/A | 3.17\% | N/A | 0.78\% | N/A | 0.44\% | N/A | 4.48\% | N/A | 3.79\% | N/A |
| Growth in Membership | (1.72\%) | N/A | (1.60\%) | N/A | (1.21\%) | N/A | 0.18\% | N/A | 0.83\% | N/A | 4.63\% | N/A |
| COLA ${ }^{3}$ | 2.54\%-3\% | N/A | 3.00\% | N/A | 0.78\%-3\% | N/A | 0.44\%-3\% | N/A | 3.00\% | N/A | 3.00\% | N/A |

Note: See footnotes at the end of this section.

## Footnotes for Historical Data Section

${ }^{1}$ Plan 3 members do not contribute to the defined benefit plan.
${ }^{2}$ Based on the assumption for prior year's CPI: Urban Wage Earners \& Clerical Workers, Seattle- Tacoma-Bremerton, WA All Items.
${ }^{3}$ Eligible PERS 1 and TRS 1 members receive a Basic Minimum COLA that is a flat dollar amount per month, per year of service. The Uniform COLA was repealed under Chapter 362, Laws of 2011. The COLA for all other plans is a percentage increase in their monthly pension. For LEOFF 1, the COLA is exactly the CPI. All others are based on the CPI with a 3\% maximum per year.
${ }^{4}$ LEOFF 2 values for 2010 were updated after the 2010 Actuarial Valuation Report was published.
${ }^{5}$ WSPRS Disability Benefits for members are provided outside of pension funds.

## Glossary

## (See the Glossary on our website also.)

## Actuarial Accrued Liability

Computed differently under different funding methods, the actuarial accrued liability generally represents the portion of the present value of fully projected benefits attributable to service credit that has been earned (or accrued) as of the valuation date.

## Actuarial Gain or Loss

A pension plan incurs actuarial gains or losses when the actual experience of the pension plan does not exactly match assumptions. For example, an actuarial gain would occur if assets earned 10 percent for a given year since the assumed interest rate in the valuation is 7.9 percent.

## Actuarial Value of Assets

The value of pension plan investments and other property used by the actuary for the purpose of an actuarial valuation (sometimes referred to as valuation assets). Actuaries often select an asset valuation method that smooths the effects of short-term volatility in the market value of assets.

## Entry Age Normal (EAN) Funding

## Method

The EAN funding method is a standard actuarial funding method. The annual cost of benefits under EAN is comprised of two components:

- Normal cost; plus
- Amortization of the unfunded actuarial accrued liability.
The normal cost is most commonly determined
on an individual basis, from a member's age at plan entry, and is designed to be a level percentage of pay throughout a member's career.


## Funded Ratio/Status

The ratio of a plan's current assets to the present value of earned pensions. There are several acceptable methods of measuring a plan's assets and liabilities. The methods and assumptions used can vary based on the purpose of the measurement.

## Market Value of Assets (MVA)

The market value of assets is the value of the pension fund based on the value of the assets as they would trade on an open market, including accrued income and expenses.

## Normal Cost

Computed differently under different funding methods, the normal cost generally represents the portion of the cost of projected benefits allocated to the current plan year. The employer normal cost equals the total normal cost of the plan reduced by employee contributions.

## Present Value of Fully Projected

## Benefits

Computed by projecting the total future benefit payments from the plan, using actuarial assumptions (i.e., probability of death or retirement, salary increases, etc.), and discounting the payments to the valuation date using the valuation interest rate to determine the present value (today's value).

## Projected Unit Credit (PUC) Actuarial Cost Method

The PUC cost method is a standard actuarial funding method. The annual cost of benefits under PUC is comprised of two components:

- Normal cost; plus,
- Amortization of the unfunded actuarial accrued liability.
The PUC normal cost is the estimated present value of projected benefits current plan members will earn in the year following the valuation date. It represents today's value of one year of earned benefits.


## Present Value of Future Salaries (PVFS)

The value of future expected salaries discounted with interest to the valuation date.

## Unfunded Actuarial Accrued Liability (UAAL)

The excess, if any, of the Actuarial Accrued Liability over the Actuarial Value of Assets. In other words, the present value of benefits earned to date not covered by current plan assets.




[^0]:    PO Box 40914 | Olympia, Washington 98504-0914 | state.actuary@leg.wa.gov | osa.leg.wa.gov
    Phone: 360.786.6140 | Fax: 360.586.8135 | TDD: 711

[^1]:    Note: Employer rates exclude administrative expense rate.

[^2]:    Note: Totals may not agree due to rounding.
    *Liabilities valued using the PUC cost method at an interest rate of $7.8 \%$ (7.5\% for LEOFF 2). All assets have been valued under the actuarial asset method.

[^3]:    Note: Totals may not agree due to rounding.
    *Liabilities valued using the PUC cost method at an interest rate of $8.8 \%$ ( $8.5 \%$ for LEOFF 2). All assets have been valued under the actuarial asset method.
    **LEOFF 2 values for 2010 were updated after the 2010 AVR was published.

[^4]:    Note: Totals may not agree due to rounding.
    *Liabilities have been valued using an interest rate of $5 \%$ while assets are their market value. The $5 \%$ interest rate approximates the "riskfree" rate of return on assets while maintaining consistency with the 3\% inflation assumption used to project future benefit payments. This method was not used to determine contribution requirements. Prior to 2011, liabilities were valued at $5.5 \%$.

[^5]:    *Minimum COLA payable to qualified members only; increases by 3\% annually. The Uniform COLA was removed under C 362 L 11.

[^6]:    *Monthly benefit omitted for privacy reasons.

[^7]:    *Monthly benefit omitted for privacy reasons.

[^8]:    *Monthly benefit omitted for privacy reasons.

