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Pension Funding Report

Ohio Police & Fire Pension Fund

Triennial Actuarial Valuation as of January 1, 2022





October 26, 2022

Board of Trustees Ohio Police & Fire Pension Fund 140 East Town Street Columbus, Ohio 43215

Members of the Board:

Cavanaugh Macdonald (CMC) is pleased to present this report on the results of the actuarial valuation of the Ohio Police & Fire Pension Fund (OP&F). This report presents the results of the triennial actuarial valuation of the assets and liabilities of OP&F as of January 1, 2022, prepared in accordance with Chapter 742 of the Ohio Revised Code (ORC), as amended by Senate Bill No. 340. The valuation takes into account all of the promised benefits to which members are entitled, including pension and survivor benefits.

The principal results of the valuation do not take into account Medicare Part B premium reimbursements or any other health care benefits. However, at the request of the Ohio Retirement Study Council (ORSC), supplemental results have been prepared that do take into account the liability for Medicare Part B premium reimbursements and are presented in Table 1A in the report.

The purpose of the valuation is to determine the financial status of OP&F on an actuarial basis. Use of this report for any other purpose may not be appropriate and may result in mistaken conclusions due to failure to understand applicable assumptions, methodologies, or inapplicability of the report for that purpose. CMC will not accept any liability for any statement made about the report without prior review by CMC.

Where presented, references to "funded ratio" and "unfunded accrued liability" typically are measured on an actuarial value of assets basis. It should be noted that the same measurements using market value of assets would result in different funded ratios and unfunded accrued liabilities. Moreover, the funded ratio presented is appropriate for evaluating the need and level of future contributions but makes no assessment regarding the funded status of the plan if the plan were to settle (i.e. purchase annuities) for a portion or all of its liabilities.



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This report does not include accounting disclosure information under Governmental Accounting Standards Board (GASB) Statement Nos. 67 and 68. CMC will provide disclosure information under Statement Nos. 67 and 68 in a separate report after OP&F's 2022 year-end. CMC also prepares a separate valuation of OP&F retiree health care benefits.

The valuation was based on the actuarial assumptions and methods that have been adopted by the Board of Trustees, including a valuation interest rate of 7.50 percent per annum compounded annually. The assumptions are effective January 1, 2022 and recommended by the actuary based on a quinquennial experience review covering the period 2017-2021. The next experience review will cover the five-year period 2022-2026. Actuarial Standards of Practice require that the likelihood and extent of future mortality improvements be considered.

Assets and Membership Data

OP&F reported to the actuary the individual data for members as of the valuation date. While we did not verify the data at their source, we did perform tests for internal consistency and reasonableness. The amount of assets in the pension trust fund taken into account in the valuation was based on financial statements prepared for us by OP&F.

An assumption is made by CMC to account for salary adjustments reported by employers assumed to occur after the census information has been provided to CMC by OP&F.

Funding Objectives and Progress

The actuary uses an actuarial cost method to determine the portion of OP&F's liabilities accrued by the members as of the valuation date and the portion that is attributable to future years of service. The rate of contribution necessary to systematically fund the future service liabilities, the normal cost rate, is calculated under the cost method to be a level percentage of active member payroll. The portion of the liabilities accrued as of the valuation date, the actuarial accrued liability (AAL), is compared to a market-related, actuarial value of OP&F's assets. The amount of liabilities in excess of the assets is called the unfunded actuarial accrued liability (UAAL).

The actuary determines how many years are required by OP&F to completely amortize the UAAL (the funding period), using the member and employer contributions reduced by the amount allocated to health care and the amount of normal cost for the year. For 2003-2012, the funding period was infinite years, meaning the annual contribution toward the unfunded when compared to the unfunded amount was not sufficient to pay it off. As a result of benefit and member contribution changes under Senate Bill No. 340, changes to the DROP program, and a reduction in the contribution allocation to the Health Care Stabilization Fund by the Board of Trustees, and favorable asset investment gains, the pension funding period has decreased from 47 years as of January 1, 2013 to 25 years as of January 1, 2021. As of January 1, 2022, the funding period increased four years to 29 years primarily due to changes in assumptions implemented with the quinquennial experience review.



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Section 742.16 of the ORC, as adopted by Senate Bill No. 82, sets forth an objective that the funding period is no more than 30 years. If the funding period exceeds 30 years, a plan shall be developed and presented by the Board of Trustees to the ORSC to reduce the funding period to not more than 30 years. Section 742.14 of the ORC, as amended by Senate Bill No. 340, sets forth that the 30-year funding analysis be performed every three years and the 30-year funding plan, if necessary, be developed and presented not later than 90 days after the Board of Trustees' receipt of the actuarial valuation and 30-year funding analysis. The most recent triennial analysis is based on the January 1, 2022 actuarial valuation, and shows the funding period is 29 years, so no 30-year funding plan is required. The next analysis will be performed based on the January 1, 2025 actuarial valuation.

The funded ratio (i.e., the ratio of actuarial assets to the AAL) determined as of January 1, 2022 is 69.7 percent, compared to 71.2 percent as of as of January 1, 2021. If measured using the market value of assets, the funded ratio would be higher at 76.6 percent on account of net investment gains not yet reflected in the actuarial assets. Taking into account the AAL for Medicare Part B premium reimbursements, the funded ratio would be 69.1 percent using the actuarial assets and 75.9 percent using the market value of assets. The funded ratio is not intended to measure the adequacy of funding in any analysis of a possible settlement of plan liabilities.

Supporting Schedules and Certification

The valuation report shows detailed summaries of the financial results of the valuation and membership data used in preparing this valuation. The actuary prepared the following supporting schedules for inclusion in the Actuarial and Statistical Sections of the OP&F Comprehensive Annual Financial Report: Analysis of Financial Experience, Short-Term Solvency Test, Schedule of Funding Progress, Calculation of Actuarial Value of Assets, and Retirees and Beneficiaries Added to and Removed from the Rolls.

The valuation assumptions were chosen by the Board of Trustees with the advice of the actuary and first used in the January 1, 2022 valuation. The assumptions used to develop the January 1, 2022 valuation are individually reasonable and in combination represent our best estimate of anticipated experience under the plan.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the economic and demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. Because of limited scope, CMC performed no analysis of the potential range of such future differences.

During 2018 OP&F retained Cavanaugh Macdonald as their actuary. The January 1, 2019 valuation was the first valuation completed by Cavanaugh Macdonald. All results presented in this report for years prior to the December 31, 2018 were performed by the prior actuary(s).



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

This is to certify that the independent consulting actuaries are members of the American Academy of Actuaries, have experience in performing valuations for public retirement plans, and meet the qualification standards of the American Academy of Actuaries to render the actuarial opinion contained herein. The valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board and the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the retirement plan and on actuarial assumptions that are internally consistent and reasonable based on the actual experience of the Fund and future expectations. However, the Board of Trustees has the final decision regarding the selection of the assumptions and adopted them as indicated in Appendix C.

Respectfully submitted,

Larry Langer, ASA, EA, FCA, MAAA Principal and Consulting Actuary Wendy T. Ludbrook, FSA, EA, FCA, MAAA Consulting Actuary

Wendy halmooth

Ryan Gundersen Senior Consultant





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Introduction

This report presents the results of the actuarial valuation as of January 1, 2022 of pension benefits for the Ohio Police and Fire Pension Fund (OP&F).

The primary purposes of performing an actuarial valuation are to:

- Disclose certain liability and asset measures as of the valuation date,
- Determine the funding period for the unfunded actuarial accrued liability (UAAL), given the current statutory contribution rates,
- Compare the actual experience since the last valuation date to that expected, and
- Analyze and report on any trends in contributions, assets, and liabilities over the past several years.

The principal valuation results include:

- The funding period for the unfunded actuarial accrued liability as of January 1, 2022 is 29 years, given the current statutory contribution rates.
- The funded status of the Plan, determined as of January 1, 2022, based on the actuarial accrued liability and the actuarial value of assets as of that date, is 69.7 percent.
- There was an experience gain (actual experience was more favorable than anticipated by the assumptions) of \$170.2 million for the year ending December 31, 2021.
- There was an increase in liabilities of \$1.08 billion due to the change in assumptions from the quinquennial experience review. These changes include lowering the assumed long-term rate or return to 7.50%, as well as, changes to the mortality and other demographic assumptions. Please see Appendix B for a list of the changes.

This valuation report does not contain information under GASB Statement Nos. 67 and 68. CMC will provide disclosure information under Statement Nos. 67 and 68 in a separate report after OP&F's 2022 year-end.

The valuation was completed based upon membership and financial data submitted by OP&F. Note that an assumption is made in the valuation for the impact of late reported salary adjustments from employers. Thus, any salary amounts shown in this report are the amounts reported to Cavanaugh Macdonald Consulting (CMC) by OP&F, increased by an assumed percentage (1.191 percent on the reported salaries for 2021).

A separate valuation, and report, is performed for all health care benefits provided by OP&F. However, at the request of the ORSC, this report includes a supplemental table, Table 1A, that discloses the combined valuation results if the normal cost and AAL for Medicare Part B premium reimbursements were included were included with the pension benefits.

Changes since Last Year

The plan provisions used in this valuation are unchanged from last year.

The assumptions used for the January 1, 2022 actuarial valuation are based on the quinquennial experience review prepared as of December 31, 2021 and adopted by the Board of Trustees on October 26, 2022. Material assumptions and methods that were changed since the prior valuation:

- The investment return assumption was lowered from 8.00 percent to 7.50 percent
- The DROP interest crediting rate was lowered from 4.00 percent to 3.75 percent

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- The mortality assumption, withdrawal rates, retirement rates, and disability rates were changed
- The DROP participation rate was lowered from 90 percent to 80 percent
- The percent married assumption was changed from assuming 75 percent of members are married to 80 percent.
- The percentage of members assumed to elect a joint annuity was changed from 33 percent to 40 percent for service retirees and from 10 percent to 15 percent for disabled retirees. The percentage continued to the joint annuitant assumption was changed from 40 percent to 45 percent.



Summarized below are the principal financial results for the OP&F Pension Fund based upon the actuarial valuation as of January 1, 2022. Comparable results from the January 1, 2021 valuation are also shown.

| | January 1, 2022 | January 1, 2021 |
|---|------------------------|------------------------|
| Membership Data | | 2 |
| Active Members | | |
| Number | 29,384 | 29,138 |
| Annualized Salaries | \$ 2,536,802,819 | \$ 2,414,537,420 |
| Average Pay | 86,333 | 82,866 |
| Membership Payroll | 2,443,620,260 | 2,381,764,788 |
| Retirees and Beneficiaries | | |
| Number | 30,560 | 30,147 |
| Annual Allowances | \$ 1,250,972,851 | \$ 1,199,288,527 |
| Average Benefit Payment | 40,935 | 39,781 |
| Vested Former Members | | |
| Number | 257 | 267 |
| Contribution Rates (as a Percentage of Payroll) | | |
| Statutory Contribution Rates: | | |
| Employer Average | 21.69% | 21.66% |
| Member | 12.25% | 12.25% |
| Total | 33.94% | 33.91% |
| Allocation of Employer Contribution Rate: | | |
| Pension Contribution Rate: | | |
| - Employer Normal Cost | 4.10% | 3.45% |
| - Accrued Liability Rate | <u>17.09%</u> | <u>17.71%</u> |
| -Total Employer Pension Rate | 21.19% | 21.16% |
| Health Care Contribution Rate | 0.50% | 0.50% |
| Total Employer Contribution Rate | 21.69% | 21.66% |
| Actuarial Funded Status | | |
| Actuarial Accrued Liability (AAL) | \$ 24,517,577,785 | \$ 22,628,591,064 |
| Actuarial Assets | 17,095,829,803 | 16,112,136,611 |
| Unfunded Accrued Liability (UAAL) | 7,421,747,982 | 6,516,454,453 |
| Funded Ratio | 69.7% | 71.2% |
| Funding Period | 29 Years | 25 Years |



Actuarial Funded Status

OP&F's funded status is measured by comparing the actuarial value of assets with the AAL. The AAL is the present value of benefits attributed to past service under OP&F's funding method and reflects future assumed pay increases for active members. The actuarial value of assets is a market-related value of assets that defers recognition of any market returns that are greater than or less than the assumed investment return over four years. The use of this asset valuation method mitigates, or smooths, the impact of market fluctuations from year to year in the valuation assets. The asset valuation method includes a 20 percent corridor around the market value, so that the actuarial value must be no less than 80 percent and no greater than 120 percent of the market value of assets.

As of January 1, 2022, the AAL exceeds the actuarial value of assets, resulting in an unfunded actuarial accrued liability of \$7.4 billion. The funded ratio, which is the ratio of the actuarial assets to the AAL, is 69.7 percent. These figures are based on an actuarial value of assets of \$17.1 billion and an AAL of \$24.5 billion.

Reasons for Change in the Funded Ratio

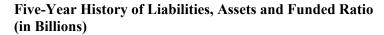
The funded ratio decreased from 71.2 percent as of January 1, 2021 to 69.7 percent as of January 1, 2022, a decrease of 1.5 percentage points. The primary reasons for the decrease are as follows:

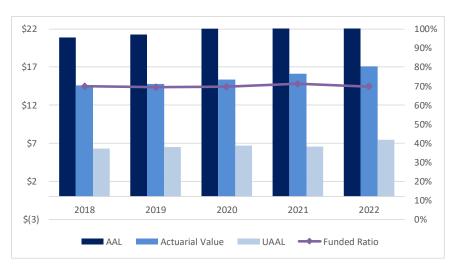
| | Increase or (Decrease) |
|---|------------------------|
| Investment gain based on actuarial value of asset | 1.7% |
| Net liability loss due to plan experience | -0.7% |
| Net liability gain due to contribution level | 0.7% |
| Net liability loss due to experience study | <u>-3.2%</u> |
| Net increase (decrease) | -1.5% |

Five-Year History of Actuarial Funded Status

| Valuation as of Jan. 1 | Actuarial Accrued Liability (AAL) | Actuarial Assets | Unfunded Actuarial Accrued Liability (UAAL) | Funded Ratio |
|---------------------------|--------------------------------------|------------------|---|-----------------|
| 2022 | \$24,517,577,785 | \$17,095,829,803 | \$7,421,747,982 | 69.7% |
| 2021 | 22,628,591,064 | 16,112,136,611 | 6,516,454,453 | 71.2% |
| 2020 | 22,044,283,396 | 15,360,122,693 | 6,684,160,703 | 69.7% |
| 2019 | 21,264,708,173 | 14,753,160,407 | 6,511,547,766 | 69.4% |
| 2018 | 20,887,227,279 | 14,594,562,053 | 6,292,665,226 | 69.9% |







Net Actuarial Gain (Loss)

The valuation process uses many assumptions to estimate future benefit payments and the corresponding liability. If actual experience is more favorable than expected by the assumption, an actuarial gain occurs. Likewise, if actual experience is unfavorable compared to the assumption, an actuarial loss occurs. The actual experience measured in this valuation is that which occurred during the prior plan year (calendar year 2021). There was a net actuarial gain of \$170.2 million, consisting of a gain of \$390.1 million on the actuarial value of assets and a loss of \$219.8 million on liabilities. The asset gain reflects the investment performance on a portion of actual market experience during 2021 and the previous three years that is recognized in the January 1, 2022 actuarial value of assets. The analysis of the net experience gain/loss is shown in Table 5.

Five-Year History of Actuarial Gains or (Losses)

| Fiscal Year Ended Dec. 31 | Net Gain or (Loss) | As a % of AAL |
|------------------------------|--------------------|---------------|
| 2021 | \$ 173,915,375 | 0.69% |
| 2020 | 226,263,826 | 1.00% |
| 2019 | (107,692,351) | -0.49% |
| 2018 | (83,052,873) | -0.39% |
| 2017 | (85,099,004) | -0.41% |



Rate of Return on Assets

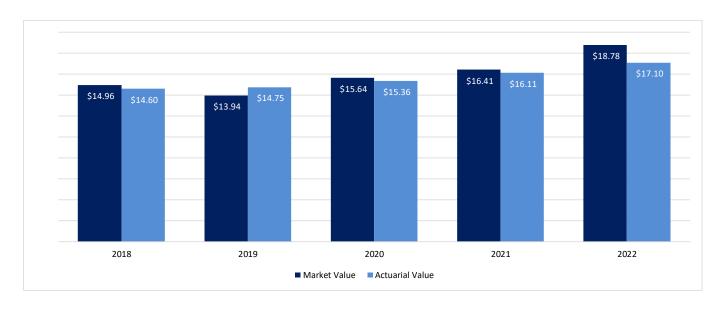
The investment returns of the trust fund on a market value basis (i.e., total return including both realized and unrealized gains and losses) for years ended December 31, 2017 through December 31, 2021 are shown below. Also shown are the rates of return on the actuarial value of assets used to determine OP&F's actuarial funded status.

Five-Year History of Rates of Return

| | Rate of Return Based on: | | | | | | | |
|-----------------------|--------------------------|-------------------|--|--|--|--|--|--|
| Year Ended Dec. 31 | Market Value* | Actuarial Value** | | | | | | |
| 2021 | 18.87% | 10.47% | | | | | | |
| 2020 | 9.21% | 8.89% | | | | | | |
| 2019 | 17.89% | 8.41% | | | | | | |
| 2018 | -1.78% | 5.04% | | | | | | |
| 2017 | 14.30% | 6.90% | | | | | | |

^{*} Rate of return, gross of fees, as reported in the OP&F CAFR

Five-Year History of Market Value and Actuarial Assets as of January 1 (in Billions)



^{**} Rate of return on actuarial value of assets is net of fees



Funding Period

The actuary determines how many years are required to fully amortize the UAAL (the funding period), using the combined member and employer contribution rates reduced by the amount allocated to fund health care benefits and the normal cost rate for the year. The calculation of the funding period takes into account future payroll growth, currently assumed at 3.25 percent per year. The calculation also considers future expected adjustments in the normal cost rate and changes in the statutory contribution rates as a result of Senate Bill No. 340.

The funding period, based on the January 1, 2022 valuation, is 29 years. This is the number of years it will take to pay off the \$7.4 billion UAAL as of January 1, 2022 if all assumptions are met. The funding period increased from 25 years in the January 1, 2021 valuation primarily due to changes in assumptions implemented with the quinquennial experience review.

If all assumptions are met on an actuarial basis, the funding period will decrease each year. However, if all assumptions are not met, the period could increase. Two assumptions that greatly impact the funding period are investment returns and future payroll growth. OP&F experienced overall favorable investment results for 2021, which when combined with unrecognized returns from 2019 and 2020 offset unrecognized 2018 returns that were less than the 8.00 percent expected return assumption. All else being equal, if a 7.50 percent return is met in the future, the funding period will remain below 30 years. However, if a 7.50 percent return is met in the future, but payroll growth is less than 3.25 percent over time, then future contributions will be less than projected and may be insufficient to pay off the UAAL over 30 years.

Five-Year History of Contribution Rates and Funding Period

Member contribution rates increased from 10.75 to 11.50 percent on July 2, 2014 and to 12.25 percent on July 2, 2015.

| Contribution Rates | | | | | Allocation | | |
|--------------------|--------|----------|----------|----------|------------|---------|----------------|
| Valuation as | | Police | Fire | Employer | Health | ъ. | F " B |
| of Jan 1, | Member | Employer | Employer | Average | Care | Pension | Funding Period |
| 2022 | 12.25% | 19.50% | 24.00% | 21.69% | 0.50% | 33.44% | 29 Years |
| 2021 | 12.25% | 19.50% | 24.00% | 21.66% | 0.50% | 33.41% | 25 Years |
| 2020 | 12.25% | 19.50% | 24.00% | 21.63% | 0.50% | 33.38% | 28 Years |
| 2019 | 12.25% | 19.50% | 24.00% | 21.62% | 0.50% | 33.37% | 29 Years |
| 2018 | 12.25% | 19.50% | 24.00% | 21.62% | 0.50% | 33.37% | 28 Years |



TABLE 1 SUMMARY OF RESULTS OF THE ACTUARIAL VALUATION AS OF JANUARY 1, 2022

| Item | | Police | | Fire fighters | Total |
|--|----|----------------|----|----------------|---------------------|
| Membership Data | | | | | |
| 1. Number of Members | | | | | |
| a. Active Members | | | | | |
| i. Vested Actives | | 6,603 | | 6,275 | 12,87 |
| ii. Non-Vested Actives | | 8,817 | | 7,689 | 16,50 |
| iii. Total Actives | | 15,420 | | 13,964 | 29,38 |
| b. Vested Former Members | | 165 | | 92 | 25 |
| c. Rehired Retirees | | 159 | | 75 | 23 |
| d. Retirees and Disableds | | 12,900 | | 9,741 | 22,64 |
| e. Beneficiaries and Survivors | | 4,605 | | 3,314 | 7,91 |
| f. Contributions Refund Due | | 3,217 | | 837 | 4,05 |
| g. Total | | 36,466 | | 28,023 | 64,48 |
| 2. Annualized Salaries | \$ | 1,298,869,976 | \$ | 1,237,932,843 | \$ 2,536,802,81 |
| 3. Membership Payroll | | 1,252,130,773 | | 1,191,489,487 | 2,443,620,26 |
| 4. Annual Allowances | | 707,717,817 | | 543,255,035 | 1,250,972,85 |
| Valuation Results | | | | | |
| 5. Present Value of Future benefits (PVFB) | | | | | |
| a. Active Members | \$ | 7,095,795,901 | \$ | 6,902,106,696 | \$ 13,997,902,59 |
| b. Vested Former Members | | 29,818,647 | | 16,077,925 | 45,896,5 |
| c. Rehired Retirees | | 11,655,454 | | 5,858,465 | 17,513,9 |
| d. Retirees and Disableds | | 7,858,449,483 | | 5,942,635,173 | 13,801,084,63 |
| e. Beneficiaries and Survivors | | 461,979,281 | | 310,089,713 | 772,068,99 |
| f. Contributions Refund Due | | 46,080,066 | | 16,072,180 | 62,152,24 |
| g. Total PVFB | \$ | 15,503,778,832 | \$ | 13,192,840,152 | \$ 28,696,618,98 |
| 6. Normal Cost | | | | | |
| a. Normal Cost | \$ | 199,294,869 | \$ | 191,303,903 | \$ 390,598,77 |
| b. Administrative Expenses | | 5,628,162 | | 4,245,807 | 9,873,96 |
| c. State Subsidy | | 116,985 | | 88,252 | 205,23 |
| d. Total: (a) + (b) - (c) | \$ | 204,806,046 | \$ | 195,461,458 | \$ 400,267,50 |
| e. Normal Cost Rate: (d) / (3) | · | 16.33% | • | 16.39% | 16.35 |
| 7. Present Value of Future Normal Cost | \$ | 2,045,682,317 | \$ | 2,118,992,561 | \$ 4,164,674,8 |



TABLE 1 SUMMARY OF RESULTS OF THE ACTUARIAL VALUATION AS OF JANUARY 1, 2022 (continued)

| Ite m | | Police | Firefighters | Total |
|--|----|----------------|----------------------|----------------------|
| 8. Actuarial Accrued Liability (AAL) | | | | |
| a. Active Members | \$ | 5,050,113,584 | \$ 4,783,114,135 | \$ 9,833,227,719 |
| b. Vested Former Members | | 29,818,647 | 16,077,925 | 45,896,572 |
| c. Rehired Retirees | | 11,655,454 | 5,858,465 | 17,513,919 |
| d. Retirees and Disableds | | 7,858,449,483 | 5,942,635,173 | 13,801,084,656 |
| e. Beneficiaries and Survivors | | 461,979,281 | 310,089,713 | 772,068,994 |
| f. Contributions Refund Due | | 46,080,066 | 16,072,180 | 62,152,246 |
| g. Total | \$ | 13,458,096,515 | \$ 11,073,847,591 | \$ 24,531,944,106 |
| h. Employer Accrued Liability | | (8,109,589) | (6,256,732) | (14,366,321) |
| i. Adjusted AAL | \$ | 13,449,986,926 | \$ 11,067,590,859 | \$ 24,517,577,785 |
| 9. Actuarial Value of Assets* | \$ | 9,378,523,823 | \$ 7,717,305,980 | \$ 17,095,829,803 |
| 10. Unfunded Accrued Liability (8) - (9) | | 4,071,463,103 | 3,350,284,879 | 7,421,747,982 |
| 11. Funding Period | | | | 29 |
| 12. Funded Ratio | | 69.7% | 69.7% | 69.7% |
| Allocation of Employer Contribution Rate 13. Employer Contribution Rate | | | | |
| a. Total Employer Rate (by law) | | 19.50% | 24.00% | 21.69% |
| b. Health Care Stabilization Fund Allocati | on | 0.50% | 0.50% | 0.50% |
| c. Employer Pension Rate: (a) - (b) | | 19.00% | 23.50% | 21.19% |
| d. Total Normal Cost Rate | | 16.33% | 16.39% | 16.35% |
| e. Member Rate (by law) | | 12.25% | 12.25% | 12.25% |
| f. Employer Normal Cost Rate: (d) - (e) | | 4.08% | 4.14% | 4.10% |
| g. Unfunded Accrued Liability | | | | |
| Amortization Rate: (c) - (f) | | 14.92% | 19.36% | 17.09% |

^{*} The Actuarial Value fo Assets is split between Police and Firefighters in proportion to the Actuarial Accrued Liability.



TABLE 1A

VALUATION RESULTS AS OF JANUARY 1, 2022 ADJUSTED FOR MEDICARE PART B
REIMBURSEMENT LIABILITIES*

| Item | Police | Fire fighters | | Total |
|--|----------------------|----------------------|----|----------------|
| Valuation Results | | | | |
| 1. Present Value of Future benefits (PVFB) | | | | |
| a. Pension Benefits | \$ 15,503,778,832 | \$ 13,192,840,152 | \$ | 28,696,618,984 |
| b. Medicare Part B Benefits | 166,272,557 | 138,607,268 | | 304,879,825 |
| c. Total | \$ 15,670,051,389 | \$ 13,331,447,420 | \$ | 29,001,498,809 |
| 2. Normal Cost | | | | |
| a. Pension Benefits | 16.33% | 16.39% | | 16.35% |
| b. Medicare Part B Benefits | 0.09% | 0.09% | | 0.09% |
| c. Total | 16.42% | 16.48% | | 16.44% |
| 3. Actuarial Accrued Liability (AAL) | | | | |
| a. Pension Benefits | \$ 13,449,986,926 | \$ 11,067,590,859 | \$ | 24,517,577,785 |
| b. Medicare Part B Benefits | 122,952,485 | 100,983,868 | | 223,936,353 |
| c. Total | \$ 13,572,939,411 | \$ 11,168,574,727 | \$ | 24,741,514,138 |
| 4. Actuarial Value of Assets* | \$ 9,378,523,823 | \$ 7,717,305,980 | \$ | 17,095,829,803 |
| 5. Unfunded Accrued Liability | 4,194,415,588 | 3,451,268,747 | | 7,645,684,335 |
| 6. Funded Ratio | 69.1% | 69.1% | | 69.1% |
| Allocation of Employer Contribution Rate 7. Employer Contribution Rate | | | | |
| a. Total Employer Rate (by law) | 19.50% | 24.00% | | 21.69% |
| b. Health Care Stabilization Fund Allocation | 0.50% | 0.50% | | 0.50% |
| c. Employer Pension Rate: (a) - (b) | 19.00% | 23.50% | | 21.19% |
| d. Pension Normal Cost Rate | 16.33% | 16.39% | | 16.35% |
| e. Medicare Part B Normal Cost Rate | 0.09% | 0.09% | ! | 0.09% |
| f. Employer Normal Cost Rate: (d) + (e) | 16.42% | 16.48% | | 16.44% |
| g. Member Rate (by law) | 12.25% | 12.25% | | 12.25% |
| h. Employer Normal Cost Rate: (f) - (g) | 4.17% | 4.23% | | 4.19% |
| i. Unfunded Accrued Liability | | | | |
| Amortization Rate: (c) - (h) | 14.83% | 19.27% | | 17.00% |

^{*} The Actuarial Value of Assets is split between Police and Firefighters in proportion to the pension Actuarial Accrued Liability. While the Actuarial Accrued Liability and Normal Cost have been adjusted in this illustration to reflect the liability for Medicare Part B reimbursements, the Actuarial Value of Assets is unadjusted for any Health Care Stabilization Fund



TABLE 2
SUMMARY OF MARKET VALUE OF PLAN ASSETS AS OF DECEMBER 31, 2021

| Summary of Assets for Years Ending December | er 31, | 2021 | | 2020 |
|---|----------------------------------|------------------------|-------|------------------------|
| Market Value of Assets as of January 1* | \$ | 16,411,125,257 | \$ | 15,636,590,807 |
| Contributions During Calendar Year | | | | |
| a. Member | \$ | 337,025,068 | \$ | 312,628,926 |
| b. Employer | | 539,130,428 | | 518,204,527 |
| c. State Subsidy | | 205,237 | | 225,676 |
| d. Total | | 876,360,733 | | 831,059,129 |
| 3. Benefit Payments During Calendar Year | \$ | 1,535,344,021 | \$ | 1,400,413,884 |
| 4. Administrative Expenses During Calendar | Year \$ | 9,609,702 | \$ | 18,903,295 |
| 5. Income During Calendar Year | | | | |
| a. Interest, Dividends and Other Income | \$ | 692,374,387 | \$ | 392,513,944 |
| b. Appreciation/(Depreciation) | | 2,396,223,443 | | 1,017,534,114 |
| c. Investment Expenses | | 55,133,954 | | 48,078,974 |
| d. Investment Return After Expenses (a) | - (b) - (c) | 3,033,463,876 | | 1,361,969,084 |
| e. Other Income/Changes | | 922,238 | | 823,416 |
| f. Total Income (d) + (e) | | 3,034,386,114 | | 1,362,792,500 |
| 6. Market Value of Assets as of December 31 (1) + (2d.) - (3) - (4) + (5f.) | * \$ | 18,776,918,381 | \$ | 16,411,125,257 |
| 7. Rate of Return (5d.) / [(1) + 0.5 * ((2d.) - (3) - (4) + (4) - (4) - (4) + (4) - | 5e.))] | 18.87% | | 8.88% |
| *The Market Value of Assets includes the DROP accrual ba | lances of \$1,895,907,467, \$1,8 | 38,381,783 and \$1,715 | ,029, | 868 as of December 31, |

*The Market Value of Assets includes the DROP accrual balances of \$1,895,907,467, \$1,838,381,783 and \$1,715,029,868 as of December 31 2021, 2020 and 2019 respectively.



January 1, 2022

TABLE 3

DERIVATION OF ACTUARIAL VALUE OF ASSETS AS OF JANUARY 1, 2022

| 1. | . Market Value of Assets as of December 31, 2021 | \$ 18,776,918,381 |
|----|--|----------------------|

2. Determination of Deferred Gain (Loss)

| | | Return on Market | Value of Assets | | | | | | | | |
|---------------------------------|-----------------|--------------------------|-------------------------|-----------------|------------|----|--------------------|--|--|--|--|
| | Year | Actual | Expected | Gain/(Loss) | % Deferred | | Deferred Amount | | | | |
| | 2021 | \$3,033,463,876 | \$1,286,183,190 | \$1,747,280,686 | 75% | | \$1,310,460,515 | | | | |
| | 2020 | 1,361,969,084 | 1,227,428,820 | 134,540,264 | 50% | | 67,270,132 | | | | |
| | 2019 | 2,304,356,918 | 1,090,925,194 | 1,213,431,724 | 25% | | 303,357,931 | | | | |
| | 2018 | (460,216,086) | 1,174,313,569 | (1,634,529,655) | 0% | | | | | | |
| | | | | | | | 1,681,088,578 | | | | |
| 3.4. | | | | | | | | | | | |
| 5. | Actuarial Rate | of Return * | | | | | | | | | |
| | a. Actuarial Va | alue of Assets as of Jan | uary 1, 2021 | | | \$ | 16,112,136,611 | | | | |
| | b. Contribution | s During 2021 | | | | | 876,360,733 | | | | |
| | c. Benefits Pai | d During 2021 | | | | | 1,535,344,021 | | | | |
| | d. Expenses Du | | 9,609,702 | | | | | | | | |
| | e. Other Incom | e | | | | | 922,238 | | | | |
| | f. Return on an | n Actuarial Basis | | | | | 1,651,363,944 | | | | |
| | g. Actuarial Ra | te of Return: (f) / [(a) | + 0.5 * ((b) - (c) - (d | [) + (e))] | | | 10.47% | | | | |

^{*} The actuarial rate of return is the rate of return based on the change in the actuarial value of assets from last year to this year. The rate of return is calculated assuming contributions and disbursements occur halfway through the year.



TABLE 4

ANALYSIS OF CHANGE IN UNFUNDED ACTUARIAL ACCRUED LIABILITY
AS OF JANUARY 1, 2022

| | January 1, 2022 |
|---|------------------------|
| 1. Unfunded Accrued Liability at January 1, 2021 | \$ 6,516,454,453 |
| 2. Contributions Toward Unfunded Accrued Liability | 502,312,738 |
| 3. Interest Credit at 8.00% to December 31, 2021 | 501,610,384 |
| 4. Expected Unfunded Accrued Liability at December 31, 2021 (1)-(2)+(3) | 6,515,752,099 |
| 5. Actual Unfunded Accrued Liability at January 1, 2022 | \$ 7,421,747,982 |
| 6. Net Gain (Loss) (4) - (5) | \$ (905,995,883) |
| 7. Reasons for Net Gain (Loss) | |
| a. Experience Gains (Losses) | |
| i. Gain (Loss) from Investment Return on Actuarial Value of Assets | \$ 390,058,973 |
| ii. Gain (Loss) from Demographic Experience and Other | \$ (216,143,598) |
| iii. Gain (Loss) from Pay Load Adjustment for Late Reported Pays | (3,671,160) |
| iv. Subtotal | 170,244,215 |
| b. Gain (Loss) from Experience Study | (1,076,240,098) |
| c. Total | \$ (905,995,883) |



DETAILED ANALYSIS OF GAINS AND LOSSES DUE TO PLAN EXPERIENCE RESULTING IN DIFFERENCES BETWEEN ASSUMED AND ACTUAL EXPERIENCE

| | | | Gain / (Loss) for Year Ended January 1, | | | | | | | |
|---|----|------------------------|---|--------------|----|---------------|----|---------------|----|-----------------|
| Plan Experience | | 2022 | | 2021 | | 2020 | | 2019 | | Total |
| Turnover If more liabilities are released by withdrawal separations from active membership than assumed, there is a gain. If smaller releases, there is a loss. | \$ | (9,754,142) | \$ | (9,775,170) | \$ | (10,222,710) | \$ | (3,121,347) | \$ | (32,873,369) |
| Retirement If members retire at older ages than assumed, there is a gain. If younger, there is a loss. | | (137,740,378) | | (77,855,153) | | (61,852,611) | | 32,335,086 | | (245,113,056) |
| Death among retired members and beneficiaries If more deaths occur than assumed, there is a gain. If fewer deaths than assumed, there is a loss. | | 69,847,648 | | (23,792,783) | | (32,634,935) | | 8,808,719 | | 22,228,649 |
| Disability retirements If disability claims are less than assumed, there is a gain. If more claims, a loss. | | 7,078,036 | | 11,252,059 | | 3,232,986 | | 12,441,861 | | 34,004,942 |
| Salary increase/decrease If there are smaller pay increases than assumed, there is a gain. If greater increases, a loss. | | (130,527,044) | | 57,863,583 | | 11,532,085 | | 149,203,045 | | 88,071,669 |
| Return to work If participants return to work with previous service restored, there is a loss. | | (2,100,859) | | (1,684,844) | | (1,089,645) | | (11,066,219) | | (15,941,567) |
| New Entrants If new entrants join OP&F, there is a loss. | | (9,571,474) | | (6,031,951) | | (8,132,872) | | (7,984,831) | | (31,721,128) |
| Deaths among actives If claims costs are less than assumed, there is a gain. If more claims, a loss. | | 987,118 | | (469,122) | | (539,065) | | (1,393,575) | | (1,414,644) |
| Other Experience and Payroll Growth If other experience, including less than expected payroll growth, increases the unfunded liability, there is a loss. Otherwise, there is a gain. | _ | (4,362,503) | | 141,764,732 | _ | (68,637,374) | _ | 237,392,859 | | 306,157,714 |
| Net gain (or loss) during the year due to plan experience | \$ | (216,143,598) | \$ | 91,271,351 | \$ | (168,344,141) | \$ | 416,615,598 | \$ | 123,399,210 |
| Investment If there is greater investment return than assumed, there is a gain. If less return, a loss. | | 390,058,973 | | 134,992,475 | _ | 60,651,790 | _ | (429,920,888) | _ | 155,782,350 |
| Net gain (or loss) during the year due to plan experience | \$ | 173,915,375 | \$ | 226,263,826 | \$ | (107,692,351) | \$ | (13,305,290) | \$ | 279,181,560 |
| Adjustment for Late Reported Pays Change in liability due to the pay being loaded to | | (3,671,160) | | 2,220,399 | | (11,745,499) | | (190,537) | | (13,386,797) |
| Special Events | _ | (1,076,240,098) | _ | | _ | | _ | (69,747,583) | _ | (1,145,987,681) |
| Changes due to special events (2022 - Expereince Study; 2019 - Change in Actuary) | ø | (0.0.5, 0.0.5, 0.0.2.) | ď | 220 404 225 | ø | (110 427 950) | ø | (02 242 410) | e | (000 102 010) |
| Total gain (or loss) during the year | Ф | (202,222,002) | Þ | 440,404,425 | Ф | (119,437,850) | Ф | (03,243,410) | Þ | (000,192,918) |



TABLE 6
SCHEDULE OF FUNDING PROGRESS

| Valuation as of Jan. 1 | Valuation Assets | ctuarial Accrued Liability (AAL) | funded Actuarial ccrued Liability (UAAL) | Ratio of Assets to AAL | Active Member Payroll | UAAL as a Percentage of Active Member Payroll |
|---------------------------|---------------------|-------------------------------------|--|------------------------------|-----------------------------|--|
| 2022 | \$ 17,095.8 | \$ 24,517.6 | \$ 7,421.8 | 69.7% | \$ 2,443.6 | 303.7% |
| 2021 | 16,112.1 | 22,628.6 | 6,516.5 | 71.2% | 2,381.8 | 273.6% |
| 2020 | 15,360.1 | 22,044.3 | 6,684.2 | 69.7% | 2,313.6 | 288.9% |
| 2019 | 14,753.2 | 21,264.7 | 6,511.5 | 69.4% | 2,218.0 | 293.6% |
| 2018 | 14,594.6 | 20,887.2 | 6,292.6 | 69.9% | 2,209.3 | 284.8% |
| 2017 | 14,162.5 | 20,290.4 | 6,127.9 | 69.8% | 2,180.9 | 281.0% |
| 2016 | 13,653.0 | 19,135.9 | 5,482.9 | 71.3% | 2,060.9 | 266.1% |
| 2015 | 13,029.3 | 18,395.6 | 5,366.3 | 70.8% | 1,986.6 | 270.1% |
| 2014 | 11,063.2 | 16,577.8 | 5,514.6 | 66.7% | 1,942.3 | 283.9% |
| 2013 | 10,278.0 | 16,007.9 | 5,729.9 | 64.2% | 1,913.4 | 299.5% |

Note: Actuarial Assets and Liabilities prior to Jan. 1, 2015 are net of DROP balances.

Note: The amounts reported in this schedule do not include assets or liabilities for post-employment health care benefits.



TABLE 7
UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL)

| | UAAL as of | Assumed Amortization | D | Mid-Year Amortization | UAAL as of | |
|------|-----------------|-----------------------------------|----------------------|--------------------------|-------------------|------------|
| DI | January 1, | Contribution Rate ¹ | Projected | Contribution | December 31, | |
| Plan | Plan Year | | Payroll ² | Amount ³ | UAAL ⁴ | 3 7 |
| Year | (a) | (b) | (c) | (d) | (e) | Year |
| 2022 | \$7,421,747,982 | 17.09% | \$2,619,248,911 | \$447,629,639 | \$7,514,266,793 | 1 |
| 2023 | 7,514,266,793 | 17.11% | 2,704,374,501 | 462,684,468 | 7,598,115,336 | 2 |
| 2024 | 7,598,115,336 | 17.14% | 2,792,266,672 | 478,549,273 | 7,671,803,540 | 3 |
| 2025 | 7,671,803,540 | 17.15% | 2,883,015,339 | 494,450,089 | 7,734,532,042 | 4 |
| 2026 | 7,734,532,042 | 17.17% | 2,976,713,337 | 510,963,695 | 7,784,843,510 | 5 |
| 2027 | 7,784,843,510 | 17.17% | 3,073,456,521 | 527,603,104 | 7,821,676,232 | 6 |
| 2028 | 7,821,676,232 | 17.18% | 3,173,343,858 | 545,190,928 | 7,843,035,964 | 7 |
| 2029 | 7,843,035,964 | 17.18% | 3,276,477,533 | 562,937,875 | 7,847,597,250 | 8 |
| 2030 | 7,847,597,250 | 17.18% | 3,382,963,053 | 581,338,190 | 7,833,422,780 | 9 |
| 2031 | 7,833,422,780 | 17.19% | 3,492,909,352 | 600,294,996 | 7,798,530,389 | 10 |
| 2032 | 7,798,530,389 | 17.19% | 3,606,428,906 | 619,981,854 | 7,740,609,301 | 11 |
| 2033 | 7,740,609,301 | 17.19% | 3,723,637,845 | 640,261,634 | 7,657,317,608 | 12 |
| 2034 | 7,657,317,608 | 17.18% | 3,844,656,075 | 660,582,937 | 7,546,709,462 | 13 |
| 2035 | 7,546,709,462 | 17.16% | 3,969,607,398 | 681,215,588 | 7,406,413,317 | 14 |
| 2036 | 7,406,413,317 | 17.14% | 4,098,619,638 | 702,663,928 | 7,233,356,849 | 15 |
| 2037 | 7,233,356,849 | 17.14% | 4,231,824,776 | 725,263,928 | 7,023,888,967 | 16 |
| 2038 | 7,023,888,967 | 17.13% | 4,369,359,082 | 748,525,565 | 6,774,592,815 | 17 |
| 2039 | 6,774,592,815 | 17.12% | 4,511,363,252 | 772,121,078 | 6,482,135,104 | 18 |
| 2040 | 6,482,135,104 | 17.11% | 4,657,982,558 | 797,097,509 | 6,141,846,950 | 19 |
| 2041 | 6,141,846,950 | 17.11% | 4,809,366,991 | 822,976,947 | 5,749,204,812 | 20 |
| 2042 | 5,749,204,812 | 17.10% | 4,965,671,418 | 849,250,625 | 5,299,873,384 | 21 |
| 2043 | 5,299,873,384 | 17.11% | 5,127,055,739 | 876,999,078 | 4,788,071,890 | 22 |
| 2044 | 4,788,071,890 | 17.10% | 5,293,685,050 | 905,065,275 | 4,208,785,632 | 23 |
| 2045 | 4,208,785,632 | 17.09% | 5,465,729,815 | 933,893,721 | 3,556,162,936 | 24 |
| 2046 | 3,556,162,936 | 17.08% | 5,643,366,034 | 963,972,569 | 2,823,407,124 | 25 |
| 2047 | 2,823,407,124 | 17.07% | 5,826,775,430 | 994,839,224 | 2,003,691,397 | 26 |
| 2048 | 2,003,691,397 | 17.05% | 6,016,145,631 | 1,025,954,309 | 1,090,236,184 | 27 |
| 2049 | 1,090,236,184 | 17.04% | 6,211,670,364 | 1,058,247,192 | 74,789,856 | 28 |
| 2050 | 74,789,856 | 17.02% | 6,413,549,651 | 1,091,523,201 | 17,102,030 | 29 |
| 2050 | /4,/09,830 | 16.99% | 6,621,990,015 | 1,125,364,551 | - | 30 |

FUNDING PERIOD AS OF JANUARY 1, 2022

Funding Period is 29 years because the UAAL is first projected to be zero as of December 31 of year 29.

¹ The amortization contribution rate is the total statutory contribution rate, minus the total normal cost rate, minus the health care contribution rate. The statutory contribution rate is assumed to remain unchanged except for any legislated increases, for which none are assumed after the July 1, 2015 member contribution rate increase. The impact of SB 340 and changes adopted by OP&F that will impact new members will reduce the total normal cost rate over time, and, thus, increase the amortization contribution rate, as reflected above.

² Based on 3.25% payroll growth assumption

³ The contribution amount is the product of (b) the amortization contribution rate and (c) the assumed payroll amount.

⁴ The outstanding balance at the end of the year is derived from the outstanding balance at the beginning of the year with interest minus the mid-year amortization contribution with interest. (e) = $[(a) \times 1.075]$ - $[(d) \times 1.075^{\circ}0.5]$



TABLE 8

SOLVENCY TEST – COMPARATIVE SUMMARY OF ACTUARIAL ACCRUED LIABILITY AND ACTUARIAL VALUE OF ASSETS

POLICE

| Valuation as | (1) Active Member | (2) Retirees and | (3) Active Member | | | on of Acc lity Cover uation As | red by |
|--------------|----------------------|---------------------|--------------------------|-------------|------|--------------------------------------|--------|
| of January 1 | Contributions | Be ne ficiarie s | Employer Financed | of Assets | (1) | (2) | (3) |
| 2022 | 1,733,321 | \$8,320,429 | \$3,396,237 | \$9,378,524 | 100% | 92% | 0% |
| 2021 | 1,703,012 | 7,687,534 | 3,015,833 | 8,833,660 | 100% | 93% | 0% |
| 2020 | 1,650,362 | 7,361,618 | 3,077,379 | 8,423,682 | 100% | 92% | 0% |
| 2019 | 1,584,057 | 7,107,922 | 2,987,107 | 8,102,788 | 100% | 92% | 0% |
| 2018 | 1,515,993 | 6,870,423 | 3,138,109 | 8,052,548 | 100% | 95% | 0% |
| 2017 | 1,451,473 | 6,576,192 | 3,184,383 | 7,825,895 | 100% | 97% | 0% |
| 2016 | 1,386,649 | 6,085,896 | 3,002,889 | 7,473,979 | 100% | 100% | 0% |
| 2015 | 1,210,400 | 5,857,146 | 3,015,390 | 7,141,575 | 100% | 100% | 2% |
| 2014 | 1,171,496 | 5,368,637 | 2,583,711 | 6,088,816 | 100% | 92% | 0% |
| 2013 | 1,131,664 | 5,166,808 | 2,532,580 | 5,670,069 | 100% | 88% | 0% |

FIREFIGHTERS

| Valuation as | (1) Active Member | (2) Retirees and | (3) Active Member | Actuarial Value | Portion of Accrued Liability Covered by Valuation Assets | | | |
|--------------|----------------------|---------------------|----------------------|-----------------|--|------|-----|--|
| of January 1 | Contributions | Beneficiaries | Employer Financed | of Assets | (1) | (2) | (3) | |
| 2022 | 1,613,606 | \$6,252,725 | \$3,201,259 | \$7,717,306 | 100% | 98% | 0% | |
| 2021 | 1,552,817 | 5,881,373 | 2,788,022 | 7,278,477 | 100% | 97% | 0% | |
| 2020 | 1,489,023 | 5,589,542 | 2,876,359 | 6,936,441 | 100% | 97% | 0% | |
| 2019 | 1,423,619 | 5,373,749 | 2,788,255 | 6,650,372 | 100% | 97% | 0% | |
| 2018 | 1,345,237 | 5,150,080 | 2,867,386 | 6,542,014 | 100% | 100% | 2% | |
| 2017 | 1,276,582 | 4,922,990 | 2,878,774 | 6,336,593 | 100% | 100% | 5% | |
| 2016 | 1,213,330 | 4,614,250 | 2,832,862 | 6,179,025 | 100% | 100% | 12% | |
| 2015 | 1,062,097 | 4,337,819 | 2,912,741 | 5,887,716 | 100% | 100% | 17% | |
| 2014 | 1,028,465 | 3,924,388 | 2,501,058 | 4,974,383 | 100% | 100% | 1% | |
| 2013 | 974,362 | 3,751,279 | 2,451,195 | 4,607,962 | 100% | 97% | 0% | |

TOTAL

| Valuation as | (1) Active Member | (2) Retirees and | (3) Active Member | Actuarial Value | Liabil | rued red by sets | |
|--------------|----------------------|---------------------|--------------------------|-----------------|--------|------------------------|-----|
| of January 1 | Contributions | Beneficiaries | Employer Financed | of Assets | (1) | (2) | (3) |
| 2022 | 3,346,928 | \$14,573,154 | \$6,597,496 | \$17,095,830 | 100% | 94% | 0% |
| 2021 | 3,255,829 | 13,568,907 | 5,803,855 | 16,112,137 | 100% | 95% | 0% |
| 2020 | 3,139,385 | 12,951,161 | 5,953,738 | 15,360,123 | 100% | 94% | 0% |
| 2019 | 3,007,676 | 12,481,671 | 5,775,362 | 14,753,160 | 100% | 94% | 0% |
| 2018 | 2,861,230 | 12,020,503 | 6,005,495 | 14,594,562 | 100% | 98% | 0% |
| 2017 | 2,728,055 | 11,499,182 | 6,063,157 | 14,162,488 | 100% | 99% | 0% |
| 2016 | 2,599,979 | 10,700,146 | 5,835,751 | 13,653,004 | 100% | 100% | 6% |
| 2015 | 2,272,497 | 10,194,965 | 5,928,131 | 13,029,291 | 100% | 100% | 9% |
| 2014 | 2,199,961 | 9,293,025 | 5,084,769 | 11,063,199 | 100% | 95% | 0% |
| 2013 | 2,106,026 | 8,918,087 | 4,983,775 | 10,278,031 | 100% | 92% | 0% |

Note: Actuarial Assets and Liabilities prior to Jan. 1, 2015 are net of DROP balances



SUMMARY OF MEMBERSHIP DATA AS OF JANUARY 1, 2022

POLICE

| Item | Male | Female | Total |
|-----------------------|---------------------|-------------------|---------------------|
| Number of Members | 13,668 | 1,752 | 15,420 |
| Annual Salaries | \$ 1,160,087,347 | \$ 138,782,629 | \$ 1,298,869,976 |
| Average Annual Salary | \$ 84,876 | \$ 79,214 | \$ 84,233 |
| Average Age | 41.3 | 39.0 | 41.0 |
| Average Service | 13.9 | 11.2 | 13.6 |

FIREFIGHTERS

| Item | Male | Female | Total |
|-----------------------|---------------------|------------------|---------------------|
| Number of Members | 13,455 | 509 | 13,964 |
| Annual Salaries | \$ 1,197,971,259 | \$ 39,961,584 | \$ 1,237,932,843 |
| Average Annual Salary | \$ 89,035 | \$ 78,510 | \$ 88,652 |
| Average Age | 41.9 | 37.4 | 41.7 |
| Average Service | 14.3 | 8.7 | 14.1 |

TOTAL

| Item | Male | Female | Total |
|-----------------------|---------------------|-------------------|---------------------|
| Number of Members | 27,123 | 2,261 | 29,384 |
| Annual Salaries | \$ 2,358,058,606 | \$ 178,744,214 | \$ 2,536,802,819 |
| Average Annual Salary | \$ 86,939 | \$ 79,055 | \$ 86,333 |
| Average Age | 41.6 | 38.6 | 41.4 |
| Average Service | 14.1 | 10.7 | 13.8 |



SUMMARY OF MEMBERSHIP DATA AS OF JANUARY 1, 2022 (continued)

POLICE

| Item | Male | Female | Total |
|---------------------------|-------|--------|-------|
| Eligible for Allowances | 152 | 13 | 165 |
| Eligible for Refunds Only | 2,744 | 473 | 3,217 |
| Total | 2,896 | 486 | 3,382 |

FIREFIGHTERS

| Item | Male | Female | Total |
|---------------------------|------|--------|-------|
| Eligible for Allowances | 86 | 6 | 92 |
| Eligible for Refunds Only | 760 | 77 | 837 |
| Total | 846 | 83 | 929 |

TOTAL

| Item | Male | Female | Total |
|---------------------------|-------|--------|-------|
| Eligible for Allowances | 238 | 19 | 257 |
| Eligible for Refunds Only | 3,504 | 550 | 4,054 |
| Total | 3,742 | 569 | 4,311 |



SUMMARY OF MEMBERSHIP DATA AS OF JANUARY 1, 2022 (continued)

POLICE

| Item | Number | Annual Allowance | Average Allowance | Average Age |
|-----------------------------|--------|---------------------|----------------------|----------------|
| Service Retirees | 9,633 | \$ 506,205,627 | \$ 52,549 | 68.1 |
| Survivors and Beneficiaries | 4,610 | 54,727,965 | 11,872 | 71.7 |
| Disability Retirees | 3,426 | 146,831,352 | 42,858 | 65.2 |
| Total | 17,669 | \$ 707,764,944 | \$ 40,057 | 68.5 |

FIREFIGHTERS

| 14 | Nili | | Annual | | Average | Average |
|-----------------------------|--------|----|-------------|----|-----------|---------|
| Item | Number | | Allowance | | Allowance | Age |
| Service Retirees | 7,410 | \$ | 394,116,444 | \$ | 53,187 | 68.8 |
| Survivors and Beneficiaries | 3,314 | | 39,516,140 | | 11,924 | 74.1 |
| Disability Retirees | 2,406 | | 109,622,451 | | 45,562 | 66.9 |
| Total | 13,130 | \$ | 543,255,035 | \$ | 41,375 | 69.8 |

TOTAL

| Ite m | Number | Annual Allowance | Average Allowance | | Average Age |
|-----------------------------|--------|---------------------|----------------------|--------|----------------|
| Service Retirees | 17,043 | \$ 900,322,070 | \$ | 52,827 | 68.4 |
| Survivors and Beneficiaries | 7,924 | 94,244,105 | | 11,894 | 72.7 |
| Disability Retirees | 5,832 | 256,453,803 | | 43,974 | 65.9 |
| Total | 30,799 | \$ 1,251,019,978 | \$ | 40,619 | 69.0 |



TABLE 10

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022
POLICE

| | | | | Ye | ars of Serv | ice | | | | |
|-----------|----------|----------|----------|-----------|-------------|-----------|-----------|-----------|-----------|----------|
| Age | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 & Up | Total |
| Under 25 | 672 | 1 | - | - | - | - | - | - | - | 673 |
| Ulluci 25 | \$56,327 | \$79,230 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$56,361 |
| 25-29 | 1,808 | 323 | - | - | 1 | - | - | - | - | 2,132 |
| 23-27 | \$64,779 | \$81,010 | \$0 | \$0 | \$86,928 | \$0 | \$0 | \$0 | \$0 | \$67,249 |
| 30-34 | 1,056 | 1,240 | 157 | - | - | - | - | - | - | 2,453 |
| 30-34 | \$65,153 | \$83,043 | \$95,740 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$76,154 |
| 35-39 | 457 | 787 | 770 | 191 | - | - | - | - | - | 2,205 |
| 33-37 | \$65,902 | \$81,544 | \$91,160 | \$98,813 | \$0 | \$0 | \$0 | \$0 | \$0 | \$83,156 |
| 40-44 | 159 | 280 | 452 | 725 | 284 | 1 | - | - | - | 1,901 |
| 70-77 | \$63,241 | \$82,537 | \$88,493 | \$96,463 | \$100,882 | \$117,284 | \$0 | \$0 | \$0 | \$90,409 |
| 45-49 | 77 | 93 | 209 | 450 | 1,010 | 320 | 4 | - | - | 2,163 |
| 43-47 | \$60,686 | \$74,919 | \$84,899 | \$91,623 | \$97,614 | \$105,218 | \$120,893 | \$0 | \$0 | \$94,017 |
| 50-54 | 42 | 50 | 94 | 253 | 684 | 1,100 | 303 | 4 | - | 2,530 |
| 30-34 | \$54,260 | \$70,327 | \$87,109 | \$87,650 | \$93,359 | \$100,989 | \$104,794 | \$97,288 | \$0 | \$96,145 |
| 55-59 | 18 | 13 | 31 | 69 | 168 | 355 | 373 | 24 | 3 | 1,054 |
| 33-37 | \$59,461 | \$77,957 | \$69,445 | \$87,701 | \$90,362 | \$97,762 | \$103,998 | \$100,497 | \$101,158 | \$96,472 |
| 60-64 | 5 | 6 | 11 | 18 | 39 | 82 | 91 | 10 | - | 262 |
| 00-04 | \$49,882 | \$67,172 | \$83,639 | \$79,233 | \$83,801 | \$87,670 | \$94,946 | \$113,831 | \$0 | \$88,680 |
| Over 64 | 1 | 1 | 4 | 2 | 7 | 21 | 7 | - | 4 | 47 |
| OVEI 04 | \$38,072 | \$49,092 | \$57,220 | \$113,521 | \$79,224 | \$91,391 | \$93,355 | \$0 | \$85,541 | \$85,373 |
| TOTAL | 4,295 | 2,794 | 1,728 | 1,708 | 2,193 | 1,879 | 778 | 38 | 7 | 15,420 |
| TOTAL | \$63,389 | \$81,766 | \$89,385 | \$93,630 | \$95,845 | \$100,420 | \$103,240 | \$103,668 | \$92,234 | \$84,233 |

Note: Excludes rehired retirees.



TABLE IO

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 FIREFIGHTERS'

| | | | | Ye | ars of Serv | ice | | | | |
|----------|----------|----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|
| Age | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 & Up | Total |
| Under 25 | 603 | 3 | - | - | - | - | - | - | - | 606 |
| Unuer 25 | \$59,957 | \$73,299 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$60,023 |
| 25-29 | 1,266 | 262 | 1 | - | - | - | - | - | - | 1,529 |
| 23-29 | \$67,566 | \$85,068 | \$146,142 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$70,617 |
| 30-34 | 945 | 963 | 163 | - | - | - | - | - | - | 2,071 |
| 30-34 | \$69,728 | \$84,958 | \$89,263 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$78,347 |
| 35-39 | 522 | 737 | 701 | 211 | - | - | - | - | - | 2,171 |
| 33-37 | \$67,997 | \$86,178 | \$91,060 | \$100,704 | \$0 | \$0 | \$0 | \$0 | \$0 | \$84,795 |
| 40-44 | 174 | 342 | 501 | 641 | 329 | 3 | - | - | - | 1,990 |
| 40-44 | \$72,074 | \$85,299 | \$91,745 | \$96,503 | \$103,105 | \$117,255 | \$0 | \$0 | \$0 | \$92,367 |
| 45-49 | 55 | 80 | 180 | 429 | 962 | 266 | 7 | - | - | 1,979 |
| 43-47 | \$64,310 | \$84,189 | \$91,413 | \$95,082 | \$103,806 | \$106,798 | \$117,124 | \$0 | \$0 | \$99,346 |
| 50-54 | 25 | 24 | 72 | 240 | 661 | 725 | 272 | 2 | - | 2,021 |
| 30-34 | \$68,106 | \$85,011 | \$89,010 | \$92,220 | \$101,418 | \$106,050 | \$111,630 | \$104,484 | \$0 | \$102,316 |
| 55-59 | 11 | 14 | 25 | 67 | 236 | 437 | 392 | 43 | 1 | 1,226 |
| 33-37 | \$61,236 | \$81,216 | \$83,422 | \$91,574 | \$99,467 | \$101,367 | \$104,918 | \$108,568 | \$107,704 | \$100,903 |
| 60-64 | 2 | 5 | 10 | 16 | 62 | 119 | 113 | 9 | 2 | 338 |
| 00-04 | \$70,606 | \$79,246 | \$74,149 | \$90,525 | \$96,046 | \$100,592 | \$102,172 | \$105,198 | \$103,491 | \$98,674 |
| Over 64 | - | 1 | 2 | 6 | 5 | 11 | 8 | - | - | 33 |
| OVEI 04 | \$0 | \$78,532 | \$62,519 | \$73,665 | \$90,023 | \$106,306 | \$89,893 | \$0 | \$0 | \$90,430 |
| TOTAL | 3,603 | 2,431 | 1,655 | 1,610 | 2,255 | 1,561 | 792 | 54 | 3 | 13,964 |
| TOTAL | \$67,076 | \$85,313 | \$90,821 | \$95,687 | \$102,306 | \$104,473 | \$106,788 | \$107,855 | \$104,895 | \$88,652 |

Note: Excludes rehired retirees.



TABLE 10

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022
TOTAL

| | | | | Ye | ars of Serv | ice | | | | |
|----------|----------|----------|-----------|----------|-------------|-----------|-----------|-----------|-----------|----------|
| Age | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 & Up | Total |
| Under 25 | 1,275 | 4 | - | - | - | - | - | - | - | 1,279 |
| Under 25 | \$58,044 | \$74,782 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$58,096 |
| 25-29 | 3,074 | 585 | 1 | - | 1 | - | - | - | - | 3,661 |
| 23-29 | \$65,927 | \$82,827 | \$146,142 | \$0 | \$86,928 | \$0 | \$0 | \$0 | \$0 | \$68,655 |
| 30-34 | 2,001 | 2,203 | 320 | - | - | - | - | - | - | 4,524 |
| 30-34 | \$67,313 | \$83,880 | \$92,441 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$77,158 |
| 35-39 | 979 | 1,524 | 1,471 | 402 | - | - | - | - | - | 4,376 |
| 33-39 | \$67,019 | \$83,785 | \$91,112 | \$99,805 | \$0 | \$0 | \$0 | \$0 | \$0 | \$83,969 |
| 40-44 | 333 | 622 | 953 | 1,366 | 613 | 4 | - | - | - | 3,891 |
| 40-44 | \$67,856 | \$84,056 | \$90,203 | \$96,482 | \$102,075 | \$117,262 | \$0 | \$0 | \$0 | \$91,410 |
| 45-49 | 132 | 173 | 389 | 879 | 1,972 | 586 | 11 | - | - | 4,142 |
| 43-47 | \$62,196 | \$79,206 | \$87,913 | \$93,312 | \$100,635 | \$105,935 | \$118,495 | \$0 | \$0 | \$96,563 |
| 50-54 | 67 | 74 | 166 | 493 | 1,345 | 1,825 | 575 | 6 | - | 4,551 |
| 30-34 | \$59,426 | \$75,089 | \$87,934 | \$89,875 | \$97,320 | \$103,000 | \$108,028 | \$99,687 | \$0 | \$98,885 |
| 55-59 | 29 | 27 | 56 | 136 | 404 | 792 | 765 | 67 | 4 | 2,280 |
| 33-37 | \$60,134 | \$79,647 | \$75,685 | \$89,609 | \$95,681 | \$99,751 | \$104,469 | \$105,677 | \$102,795 | \$98,854 |
| 60-64 | 7 | 11 | 21 | 34 | 101 | 201 | 204 | 19 | 2 | 600 |
| 00-04 | \$55,803 | \$72,660 | \$79,120 | \$84,547 | \$91,317 | \$95,320 | \$98,949 | \$109,742 | \$103,491 | \$94,310 |
| Over 64 | 1 | 2 | 6 | 8 | 12 | 32 | 15 | - | 4 | 80 |
| Over 04 | \$38,072 | \$63,812 | \$58,986 | \$83,629 | \$83,724 | \$96,518 | \$91,508 | \$0 | \$85,541 | \$87,459 |
| TOTAL | 7,898 | 5,225 | 3,383 | 3,318 | 4,448 | 3,440 | 1,570 | 92 | 10 | 29,384 |
| TOTAL | \$65,071 | \$83,416 | \$90,087 | \$94,628 | \$99,121 | \$102,259 | \$105,030 | \$106,126 | \$96,032 | \$86,333 |

Note: Excludes rehired retirees.



TABLE 11

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022
POLICE

| | Annual Allowances as of January 1, 2022 | | | | | | | | | |
|-----------------------------|---|----|--------------------------------|----|-------------|----|-------------|--|--|--|
| Group | Number | | Cost-of-Living Basic Increases | | | | Total | | | |
| Service Retirees | | | | | | | | | | |
| Males | 8,990 | \$ | 347,364,509 | \$ | 124,832,498 | \$ | 472,197,008 | | | |
| Females | 643 | | 26,845,857 | | 7,162,762 | | 34,008,619 | | | |
| Subtotal | 9,633 | \$ | 374,210,366 | \$ | 131,995,260 | \$ | 506,205,627 | | | |
| Survivors and Beneficiaries | | | | | | | | | | |
| Males | 240 | \$ | 1,017,534 | \$ | 510,790 | \$ | 1,528,324 | | | |
| Females | 4,370 | | 33,410,601 | | 19,789,040 | | 53,199,641 | | | |
| Subtotal | 4,610 | \$ | 34,428,135 | \$ | 20,299,830 | \$ | 54,727,965 | | | |
| Disability Retirees | | | | | | | | | | |
| Males | 2,911 | \$ | 87,800,972 | \$ | 37,623,692 | \$ | 125,424,664 | | | |
| Females | 515 | | 15,512,408 | | 5,894,280 | | 21,406,687 | | | |
| Subtotal | 3,426 | \$ | 103,313,380 | \$ | 43,517,972 | \$ | 146,831,352 | | | |
| Grand Total | 17,669 | | 511,951,882 | | 195,813,062 | | 707,764,944 | | | |



TABLE 11

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022
FIREFIGHTERS'

| | | Annual Allowances as of January 1, 2022 Cost-of-Living | | | | | | | | | |
|-----------------------------|--------|---|-------------|----|-------------|----|-------------|--|--|--|--|
| Group | Number | | Basic | · | Increases | | Total | | | | |
| Service Retirees | | | | | | | | | | | |
| Males | 7,314 | \$ | 286,416,557 | \$ | 102,684,448 | \$ | 389,101,005 | | | | |
| Females | 96 | | 4,257,680 | | 757,758 | | 5,015,438 | | | | |
| Subtotal | 7,410 | \$ | 290,674,238 | \$ | 103,442,206 | \$ | 394,116,444 | | | | |
| Survivors and Beneficiaries | | | | | | | | | | | |
| Males | 130 | \$ | 340,075 | \$ | 176,706 | \$ | 516,781 | | | | |
| Females | 3,184 | | 24,684,262 | | 14,315,097 | | 38,999,359 | | | | |
| Subtotal | 3,314 | \$ | 25,024,337 | \$ | 14,491,803 | \$ | 39,516,140 | | | | |
| Disability Retirees | | | | | | | | | | | |
| Males | 2,289 | \$ | 74,911,604 | \$ | 30,091,266 | \$ | 105,002,870 | | | | |
| Females | 117 | | 3,627,538 | | 992,043 | | 4,619,581 | | | | |
| Subtotal | 2,406 | \$ | 78,539,142 | \$ | 31,083,309 | \$ | 109,622,451 | | | | |
| Grand Total | 13,130 | | 394,237,717 | | 149,017,318 | | 543,255,035 | | | | |



TABLE 11

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022
TOTAL

| | | Annual Allowances as of January 1, 2022 Cost-of-Living | | | | | | | |
|-----------------------------|--------|---|-------------|----|-------------|----|---------------|--|--|
| Group | Number | | Basic | | Increases | | Total | | |
| Service Retirees | | | | | | | | | |
| Males | 16,304 | \$ | 633,781,067 | \$ | 227,516,946 | \$ | 861,298,013 | | |
| Females | 739 | | 31,103,537 | | 7,920,520 | | 39,024,057 | | |
| Subtotal | 17,043 | \$ | 664,884,604 | \$ | 235,437,466 | \$ | 900,322,070 | | |
| Survivors and Beneficiaries | | | | | | | | | |
| Males | 370 | \$ | 1,357,609 | \$ | 687,496 | \$ | 2,045,104 | | |
| Females | 7,554 | | 58,094,864 | | 34,104,137 | | 92,199,001 | | |
| Subtotal | 7,924 | \$ | 59,452,472 | \$ | 34,791,633 | \$ | 94,244,105 | | |
| Disability Retirees | | | | | | | | | |
| Males | 5,200 | \$ | 162,712,576 | \$ | 67,714,958 | \$ | 230,427,534 | | |
| Females | 632 | | 19,139,946 | | 6,886,323 | | 26,026,269 | | |
| Subtotal | 5,832 | \$ | 181,852,522 | \$ | 74,601,281 | \$ | 256,453,803 | | |
| Grand Total | 30,799 | | 906,189,598 | | 344,830,380 | | 1,251,019,978 | | |



TABLE 12

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022
POLICE

| | | Annual | | ige Annual |
|-----------------------------|--------|-------------------|----|------------|
| Age Last Birthday | Number | Allowance | Al | lowance |
| Service Retirees | | | | |
| Under 60 | 2,029 | \$ 99,775,832 | \$ | 49,175 |
| 60-64 | 1,545 | 85,940,287 | | 55,625 |
| 65-69 | 1,872 | 106,100,264 | | 56,677 |
| 70-74 | 1,721 | 96,845,175 | | 56,273 |
| 75-79 | 1,314 | 69,267,129 | | 52,715 |
| Over 79 | 1,152 | 48,276,940 | | 41,907 |
| Total | 9,633 | \$ 506,205,627 | \$ | 52,549 |
| Survivors and Beneficiaries | | | | |
| Under 60 | 708 | \$ 7,057,085 | \$ | 9,968 |
| 60-64 | 314 | 4,425,754 | | 14,095 |
| 65-69 | 508 | 6,767,739 | | 13,322 |
| 70-74 | 768 | 10,019,054 | | 13,046 |
| 75-79 | 723 | 8,663,784 | | 11,983 |
| Over 79 | 1,589 | 17,794,551 | | 11,199 |
| Total | 4,610 | \$ 54,727,965 | \$ | 11,872 |
| Disability Retirees | | | | |
| Under 60 | 1,137 | \$ 46,368,358 | \$ | 40,781 |
| 60-64 | 437 | 20,752,845 | | 47,489 |
| 65-69 | 550 | 25,896,486 | | 47,085 |
| 70-74 | 576 | 25,658,337 | | 44,546 |
| 75-79 | 426 | 17,749,626 | | 41,666 |
| Over 79 | 300 | 10,405,700 | | 34,686 |
| Total | 3,426 | \$ 146,831,352 | \$ | 42,858 |



TABLE 12

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022
FIREFIGHTERS'

| | | Annual | | Average Annual | |
|-----------------------------|--------|--------|-------------|----------------|----------|
| Age Last Birthday | Number | | Allowance | A | llowance |
| Service Retirees | | | | | |
| Under 60 | 1,166 | \$ | 58,876,468 | \$ | 50,494 |
| 60-64 | 1,534 | | 85,995,579 | | 56,060 |
| 65-69 | 1,541 | | 88,774,462 | | 57,608 |
| 70-74 | 1,218 | | 68,552,913 | | 56,283 |
| 75-79 | 922 | | 47,533,773 | | 51,555 |
| Over 79 | 1,029 | | 44,383,248 | | 43,132 |
| Total | 7,410 | \$ | 394,116,444 | \$ | 53,187 |
| Survivors and Beneficiaries | | | | | |
| Under 60 | 472 | \$ | 5,095,005 | \$ | 10,795 |
| 60-64 | 183 | | 2,701,445 | | 14,762 |
| 65-69 | 269 | | 3,589,156 | | 13,343 |
| 70-74 | 407 | | 5,342,655 | | 13,127 |
| 75-79 | 472 | | 5,827,255 | | 12,346 |
| Over 79 | 1,511 | | 16,960,623 | | 11,225 |
| Total | 3,314 | \$ | 39,516,140 | \$ | 11,924 |
| Disability Retirees | | | | | |
| Under 60 | 629 | \$ | 26,786,218 | \$ | 42,585 |
| 60-64 | 331 | | 16,000,532 | | 48,340 |
| 65-69 | 420 | | 20,916,562 | | 49,801 |
| 70-74 | 404 | | 19,682,083 | | 48,718 |
| 75-79 | 323 | | 14,656,356 | | 45,376 |
| Over 79 | 299 | | 11,580,699 | | 38,731 |
| : Total | 2,406 | \$ | 109,622,451 | \$ | 45,562 |



TABLE 12

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022
TOTAL

| | | Annual | | Average Annual | |
|-----------------------------|--------|-------------|-------------|----------------|----------|
| Age Last Birthday | Number | | Allowance | A | llowance |
| Service Retirees | | | | | |
| Under 60 | 3,195 | \$ | 158,652,300 | \$ | 49,656 |
| 60-64 | 3,079 | | 171,935,867 | | 55,841 |
| 65-69 | 3,413 | 194,874,726 | | | 57,098 |
| 70-74 | 2,939 | 165,398,087 | | | 56,277 |
| 75-79 | 2,236 | | 116,800,902 | | 52,237 |
| Over 79 | 2,181 | | 92,660,188 | | 42,485 |
| Total | 17,043 | \$ | 900,322,070 | \$ | 52,827 |
| Survivors and Beneficiaries | | | | | |
| Under 60 | 1,180 | \$ | 12,152,089 | \$ | 10,298 |
| 60-64 | 497 | | 7,127,199 | | 14,340 |
| 65-69 | 777 | | 10,356,895 | | 13,329 |
| 70-74 | 1,175 | | 15,361,709 | | 13,074 |
| 75-79 | 1,195 | | 14,491,039 | | 12,126 |
| Over 79 | 3,100 | | 34,755,174 | | 11,211 |
| Total | 7,924 | \$ | 94,244,105 | \$ | 11,894 |
| Disability Retirees | | | | | |
| Under 60 | 1,766 | \$ | 73,154,576 | \$ | 41,424 |
| 60-64 | 768 | | 36,753,376 | | 47,856 |
| 65-69 | 970 | | 46,813,048 | | 48,261 |
| 70-74 | 980 | | 45,340,419 | | 46,266 |
| 75-79 | 749 | | 32,405,983 | | 43,266 |
| Over 79 | 599 | _ | 21,986,400 | | 36,705 |
| Total | 5,832 | \$ | 256,453,803 | \$ | 43,974 |



TABLE 13

10 YEAR HISTORY OF MEMBERSHIP DATA
ACTIVE MEMBERS

| Valuation as of Jan. 1, | Number of Members* | Percentage Change in Membership | Valuation Iembership Payroll | Percentage Change in Payroll** |
|-------------------------------|-----------------------|---------------------------------------|------------------------------------|--------------------------------------|
| 2022 | 29,384 | 0.84% | \$ 2,536,803 | 5.06% |
| 2021 | 29,138 | (0.69%) | 2,414,537 | 2.07% |
| 2020 | 29,340 | 1.51% | 2,365,612 | 4.28% |
| 2019 | 28,904 | 1.75% | 2,268,611 | 3.82% |
| 2018 | 28,408 | 0.83% | 2,185,127 | 1.46% |
| 2017 | 28,175 | 1.99% | 2,153,765 | 4.51% |
| 2016 | 27,624 | (0.52%) | 2,060,851 | 3.74% |
| 2015 | 27,769 | 0.59% | 1,986,569 | 2.28% |
| 2014 | 27,605 | 0.59% | 1,942,269 | 1.51% |
| 2013 | 27,444 | | 1,913,383 | |

^{*} Includes rehired retirees

^{**} Increase for 2020 and 2021 includes assumed increases for late reported salaries of 1.137% and 1.191% respectively



10 YEAR HISTORY OF MEMBERSHIP DATA RETIREES AND BENEFICIARIES ADDED TO AND REMOVED FROM THE ROLLS

| Year | Added | l to Rolls | Removed | from Rolls | Number on | | Percentage | Average | Percentage |
|-------------------|--------|----------------------|---------|----------------------|-------------------|----------------------|----------------------|----------------------|-------------------------|
| Ended Dec. 31, | Number | Annual Allowances | Number | Annual Allowances | Rolls End of Year | Annual Allowances | Change in Allowances | Annual Allowances | Change in Membership |
| 2021 | 2,136 | \$ 139,896 | 1,328 | \$ 39,601 | 30,799 | \$ 1,251,020 | 4.31% | \$ 40.62 | 1.41% |
| 2020 | 1,550 | 79,764 | 1,169 | 31,201 | 30,372 | 1,199,289 | 4.22% | 39.49 | 1.27% |
| 2019 | 1,552 | 73,909 | 1,127 | 29,045 | 29,991 | 1,150,725 | 4.06% | 38.37 | 1.44% |
| 2018 | 1,292 | 66,129 | 1,087 | 28,036 | 29,566 | 1,105,862 | 3.57% | 37.40 | 0.70% |
| 2017 | 1,458 | 50,476 | 1,010 | 24,321 | 29,361 | 1,067,769 | 4.53% | 36.37 | 1.55% |
| 2016 | 1,401 | 47,436 | 890 | 21,186 | 28,913 | 1,021,509 | 4.67% | 35.33 | 1.80% |
| 2015 | 1,450 | 48,864 | 1,011 | 22,141 | 28,402 | 975,929 | 4.81% | 34.36 | 1.57% |
| 2014 | 1,261 | 41,378 | 859 | 17,204 | 27,963 | 931,176 | 4.59% | 33.30 | 1.46% |
| 2013 | 1,362 | 44,842 | 1,044 | 23,851 | 27,561 | 890,288 | 4.42% | 32.30 | 1.17% |
| 2012 | 1,390 | 48,249 | 1,225 | 19,469 | 27,243 | 852,602 | 5.58% | 31.30 | 0.61% |



TABLE 14

RECONCILIATION OF MEMBERSHIP DATA FROM JANUARY 1, 2021 TO JANUARY 1, 2022
POLICE

| | Active | Vested Former | Rehired | | Service | | |
|-----------------------------------|---------|----------------------|----------|-----------|----------|---------------|--------|
| | Members | Members | Retirees | Disableds | Retirees | Beneficiaries | Total |
| As of January 1, 2021 | 15,461 | 167 | 159 | 3,515 | 9,111 | 4,624 | 33,037 |
| Changes in Status | | | | | | | |
| a) Retirements | (640) | (9) | - | - | 649 | - | - |
| b) Disabilities | (34) | (5) | - | 39 | - | - | - |
| c) Death With Beneficiary | (16) | (1) | - | (73) | (140) | 280 | 50 |
| d) Death Without Beneficiary | (12) | (1) | (4) | (56) | (128) | (259) | (460) |
| e) Non-Vested Termination | (198) | - | - | - | - | - | (198) |
| f) Vested Termination | (24) | 24 | - | - | - | - | - |
| g) Rehired Retirees | (16) | - | 16 | - | - | - | - |
| h) Return to Work | 54 | (3) | - | - | - | - | 51 |
| i) Cessation of Benefits/Cash-out | (253) | (7) | (14) | - | (25) | (30) | (329) |
| j) Data Corrections | 34 | | 2 | 1 | 7 | (5) | 39 |
| Total Changes in Status | (1,105) | (2) | - | (89) | 363 | (14) | (847) |
| New Entrants During the Year | 1,064 | - | - | - | - | - | 1,064 |
| Net Change | (41) | (2) | - | (89) | 363 | (14) | 217 |
| As of January 1, 2022 | 15,420 | 165 | 159 | 3,426 | 9,474 | 4,610 | 33,254 |



TABLE 14

RECONCILIATION OF MEMBERSHIP DATA FROM JANUARY 1, 2021 TO JANUARY 1, 2022 FIREFIGHTERS'

| | Active | Vested Former | Rehired | D: 11 1 | Service | D 6 | |
|-----------------------------------|---------|---------------|----------|-----------|----------|---------------|--------|
| | Members | Members | Retirees | Disableds | Retirees | Beneficiaries | Total |
| As of January 1, 2021 | 13,677 | 100 | 66 | 2,449 | 7,096 | 3,352 | 26,740 |
| Changes in Status | | | | | | | |
| a) Retirements | (463) | (9) | - | - | 472 | - | - |
| b) Disabilities | (43) | - | - | 43 | - | - | - |
| c) Death With Beneficiary | (13) | (1) | - | (53) | (115) | 226 | 44 |
| d) Death Without Beneficiary | (3) | - | - | (29) | (112) | (238) | (382) |
| e) Non-Vested Termination | (60) | - | - | - | - | - | (60) |
| f) Vested Termination | (10) | 10 | - | - | - | - | - |
| g) Rehired Retirees | (9) | - | 9 | - | - | - | - |
| h) Return to Work | 30 | (6) | - | - | - | - | 24 |
| i) Cessation of Benefits/Cash-out | (99) | (2) | (2) | (5) | (14) | (28) | (150) |
| j) Data Corrections | (4) | | 2 | 1 | 8 | 2 | 9 |
| Total Changes in Status | (674) | (8) | 9 | (43) | 239 | (38) | (515) |
| New Entrants During the Year | 961 | - | _ | - | - | - | 961 |
| Net Change | 287 | (8) | 9 | (43) | 239 | (38) | 446 |
| As of January 1, 2022 | 13,964 | 92 | 75 | 2,406 | 7,335 | 3,314 | 27,186 |



TABEL 14

RECONCILIATION OF MEMBERSHIP DATA FROM JANUARY 1, 2021 TO JANUARY 1, 2022
TOTAL

| | Active | Vested Former | Rehired | | Service | | |
|-----------------------------------|---------|---------------|----------|-----------|----------|---------------|---------|
| | Members | Members | Retirees | Disableds | Retirees | Beneficiaries | Total |
| As of January 1, 2021 | 29,138 | 267 | 225 | 5,964 | 16,207 | 7,976 | 59,777 |
| Changes in Status | | | | | | | |
| a) Retirements | (1,103) | (18) | - | - | 1,121 | - | - |
| b) Disabilities | (77) | (5) | - | 82 | - | - | - |
| c) Death With Beneficiary | (29) | (2) | - | (126) | (255) | 506 | 94 |
| d) Death Without Beneficiary | (15) | (1) | (4) | (85) | (240) | (497) | (842) |
| e) Non-Vested Termination | (258) | - | - | - | - | - | (258) |
| f) Vested Termination | (34) | 34 | - | - | - | - | - |
| g) Rehired Retirees | (25) | - | 25 | - | - | - | - |
| h) Return to Work | 84 | (9) | - | - | - | - | 75 |
| i) Cessation of Benefits/Cash-out | (352) | (9) | (16) | (5) | (39) | (58) | (479) |
| j) Data Corrections | 30 | | 4 | 2 | 15 | (3) | 48 |
| Total Changes in Status | (1,779) | (10) | 9 | (132) | 602 | (52) | (1,362) |
| New Entrants During the Year | 2,025 | _ | _ | - | - | - | 2,025 |
| Net Change | 246 | (10) | 9 | (132) | 602 | (52) | 663 |
| As of January 1, 2022 | 29,384 | 257 | 234 | 5,832 | 16,809 | 7,924 | 60,440 |



RISK CONSIDERATIONS

Actuarial Standards of Practice are issued by the Actuarial Standards Board and are binding on credentialed actuaries practicing in the United States. These standards generally identify what the actuary should consider, document and disclose when performing an actuarial assignment. In November, 2018, Actuarial Standard of Practice Number 51, Assessment and Disclosure of Risk in Measuring Pension Obligations, (ASOP 51) was issued as final with application to measurement dates on or after November 1, 2018. This ASOP, which applies to funding valuations, actuarial projections, and actuarial cost studies of proposed plan changes, is first applicable for the January 1, 2019 actuarial valuation for OP&F.

A typical retirement plan faces many different risks, but the greatest risk is the inability to make benefit payments when due. If plan assets are depleted, benefits may not be paid which could create legal and litigation risk or the plan could become "pay as you go". The term "risk" is most commonly associated with an outcome with undesirable results. However, in the actuarial world, risk is translated into uncertainty. The actuarial valuation process uses many actuarial assumptions to project how future contributions and investment returns will meet the cash flow needs for future benefit payments. Of course, we know that actual experience will not unfold exactly as anticipated by the assumptions and that uncertainty, whether favorable or unfavorable, creates risk. ASOP 51 defines risk as the potential of actual future measurements to deviate from expected results due to actual experience that is different than the actuarial assumptions.

The various risk factors for a given plan can have a significant impact – good or bad – on the actuarial projection of liability and contribution rates.

There are a number of risks inherent in the funding of a defined benefit plan. These include:

- economic risks, such as investment return and inflation;
- demographic risks such as mortality, payroll growth, aging population including impact of baby boomers, and retirement ages;
- contribution risk, i.e., the potential for contribution rates to be too high for the plan sponsor/employer to pay and
- external risks such as the regulatory and political environment.

There is a direct correlation between healthy, well-funded retirement plans and consistent contributions equal to the full actuarial contribution rate each year.



RISK CONSIDERATIONS

In an actuarially funded plan, the most significant risk factor is investment return because of the volatility of returns and the size of plan assets compared to payroll (see Exhibit I). A perusal of historical returns over 10-20 years reveals that the actual return each year is rarely close to the average return for the same period. This is an expected result given the underlying capital market assumptions and the plan's asset allocation.

The following exhibits summarize some historical information that helps indicate how certain key risk metrics have changed over time.



HISTORICAL ASSET VOLATILITY RATIOS

As a retirement system matures, the size of the market value of assets increases relative to the covered payroll of active members, on which the Fund is funded. The size of the plan assets relative to covered payroll, sometimes referred to as the asset volatility ratio, is an important indicator of the contribution risk for the Fund. The higher this ratio, the more sensitive a plan's contribution rate is to investment return volatility. In other words, it will be harder to recover from investment losses with increased contributions.

| Valuation Date | Market Value of Assets | Covered Payroll | Asset Volatility Ratio |
|-----------------|------------------------|------------------|---------------------------|
| January 1, 2012 | \$ 10,976,214,161 | \$ 1,897,413,344 | 5.78 |
| January 1, 2013 | 11,840,698,340 | 1,913,382,667 | 6.19 |
| January 1, 2014 | 13,166,077,870 | 1,942,269,436 | 6.78 |
| January 1, 2015 | 13,453,447,836 | 1,986,568,535 | 6.77 |
| January 1, 2016 | 12,923,943,156 | 2,060,850,584 | 6.27 |
| January 1, 2017 | 13,682,389,240 | 2,144,265,467 | 6.38 |
| January 1, 2018 | 14,963,614,004 | 2,174,667,031 | 6.88 |
| January 1, 2019 | 13,941,056,807 | 2,268,610,714 | 6.15 |
| January 1, 2020 | 15,636,590,807 | 2,365,611,876 | 6.61 |
| January 1, 2021 | 16,411,125,257 | 2,414,537,420 | 6.80 |
| January 1, 2022 | 18,776,918,381 | 2,536,802,819 | 7.40 |

The assets on January 1, 2022 are 740% of payroll so underperforming the investment return assumption by 1% (i.e., earn 6.50% for one year) is equivalent to 7.40% of payroll. While the actual impact in the first year is mitigated by the asset smoothing method and amortization of the UAL, this illustrates the risk associated with volatile investment returns.



HISTORICAL CASH FLOWS

Plans with negative cash flows will experience increased sensitivity to investment return volatility. Cash flows, for this purpose, are measured as contributions less benefit payments. If the Fund has negative cash flows and then experiences returns below the assumed rate, there are fewer assets to be reinvested to earn the higher returns that typically follow. While any negative cash flow will produce such a result, it is typically a negative cash flow of more than 5% of MVA that causes significant concerns.

| Year Ended | N | Market Value of Assets | (| Contributions | Benefit Payments | Net Cash Flow | Net Cash Flow as a Percent of MVA |
|-------------------|----|---------------------------|----|---------------|-------------------|------------------|-----------------------------------|
| December 31, 2011 | \$ | 10,976,214,161 | \$ | 455,627,168 | \$(1,049,873,474) | \$ (594,246,306) | -5.41% |
| December 31, 2012 | | 11,840,698,340 | | 464,867,162 | (1,075,411,270) | (610,544,108) | -5.16% |
| December 31, 2013 | | 13,166,077,870 | | 537,635,922 | (1,110,987,128) | (573,351,206) | -4.35% |
| December 31, 2014 | | 13,453,447,836 | | 642,482,523 | (1,126,154,321) | (483,671,798) | -3.60% |
| December 31, 2015 | | 12,923,943,156 | | 674,807,572 | (1,170,476,866) | (495,669,294) | -3.84% |
| December 31, 2016 | | 13,682,389,240 | | 723,737,827 | (1,187,020,466) | (463,282,639) | -3.39% |
| December 31, 2017 | | 14,963,614,004 | | 744,400,996 | (1,256,254,446) | (511,853,450) | -3.42% |
| December 31, 2018 | | 13,941,056,807 | | 774,068,159 | (1,314,608,496) | (540,540,337) | -3.88% |
| December 31, 2019 | | 15,636,590,807 | | 805,717,452 | (1,394,027,927) | (588,310,475) | -3.76% |
| December 31, 2020 | | 16,411,125,257 | | 831,059,129 | (1,400,413,884) | (569,354,755) | -3.47% |
| December 31, 2021 | | 18,776,918,381 | | 876,360,733 | (1,535,344,021) | (658,983,288) | -3.51% |



LIABILITY MATURITY MEASUREMENTS

Most public sector retirement systems have been in operation for many years. As a result, they have aging plan populations indicated by an increasing ratio of retirees to active members and a growing percentage of retiree liability. The retirement of the remaining baby boomers over the next decade is expected to further exacerbate the aging of the retirement system population. With more of the total liability residing with retirees, investment volatility has a greater impact on the funding of the Fund since it is more difficult to restore the system financially after losses occur when there is comparatively less payroll over which to spread costs.

Projections provide the most effective way of analyzing the impact of these changes on future funding measures but studying several key metrics from the valuation can also provide some valuable insight.

| Valuation Date | Retiree Liability | Total Actuarial Liability | Retiree Percentage | Covered Payroll | Ratio |
|-----------------|-------------------|------------------------------|-----------------------|-----------------|-------|
| January 1, 2012 | 9,091,917,466 | 17,634,554,969 | 51.56% | 1,897,413,344 | 9.29 |
| January 1, 2013 | 9,435,779,283 | 17,245,751,991 | 54.71% | 1,913,382,667 | 9.01 |
| January 1, 2014 | 9,799,718,068 | 17,823,319,753 | 54.98% | 1,942,269,436 | 9.18 |
| January 1, 2015 | 10,194,964,890 | 18,395,592,476 | 55.42% | 1,986,568,535 | 9.26 |
| January 1, 2016 | 10,700,145,394 | 19,135,875,916 | 55.92% | 2,060,850,584 | 9.29 |
| January 1, 2017 | 11,499,181,496 | 20,290,393,633 | 56.67% | 2,144,265,467 | 9.46 |
| January 1, 2018 | 12,020,502,851 | 20,887,227,279 | 57.55% | 2,174,667,031 | 9.60 |
| January 1, 2019 | 12,481,671,003 | 21,264,708,173 | 58.70% | 2,268,610,714 | 9.37 |
| January 1, 2020 | 12,951,160,675 | 22,044,283,396 | 58.75% | 2,365,611,876 | 9.32 |
| January 1, 2021 | 13,568,906,986 | 22,628,591,064 | 59.96% | 2,414,537,420 | 9.37 |
| January 1, 2022 | 14,573,153,650 | 24,517,577,785 | 59.44% | 2,443,620,260 | 9.32 |



APPENDIX A

SUMMARY OF MAIN BENEFIT PROVISIONS

The following is intended to summarize the key provisions valued in this valuation. Members of OP&F and other parties should not rely on this summary as a substitute for or legal interpretation of the laws and rules covering this retirement plan.

Membership

Membership in OP&F is mandatory under Ohio Law for all full-time police officers employed by Ohio municipalities and appointed under the required statutory provisions. Membership is also mandatory for all full-time firefighters employed by Ohio municipalities, townships, villages, joint fire districts or other political subdivisions. In order to become members of OP&F, full-time firefighters are required to satisfactorily complete, or have satisfactorily completed, a firefighter training course approved under former Section 3303.07, Section 4765.55 or conducted under Section 3737.33 of the ORC.

Eligibility for Membership

Full-time police officers or firefighters are eligible for membership in OP&F immediately upon commencement of employment as a full-time police officer or firefighter.

Contributions

Employer and member contributions are established by statute and both are due monthly. Employers of police officers pay 19.5 percent of salary; employers of firefighters pay 24 percent of salary. The member contribution rate equaled 12.25 percent in 2022.

Employer Contribution Rates – Percentage of Active Member Payroll:

| Time Frame of Rates | Police | Fire |
|--------------------------|--------|--------|
| Jan 1, 1986 thru Present | 19.50% | 24.00% |

Member Contribution Rates – Percentage of Active Member Payroll:

| Time Frame of Rates | Police | Fire |
|-----------------------------|--------|--------|
| July 2, 2015 and Thereafter | 12.25% | 12.25% |



Benefits

Service Retirement

Upon attaining a qualifying age with sufficient years of service, a member of OP&F may retire and receive a lifetime monthly pension. OP&F offers four types of service retirement: normal, service commuted, age/service commuted and actuarially reduced. Each type has different eligibility guidelines and is calculated using the member's average annual salary.

Since average annual salary is subject to certain statutory and administrative limitations, not all salary, earnings, or compensation may be used in the calculation. OP&F calculates allowable average annual salary as follows:

- For OP&F members with 15 or more years of service credit as of July 1, 2013, average annual salary is an average of the three years of highest allowable earnings, regardless of when in their career the highest years occurred.
- For OP&F members with less than 15 years of service credit as of July 1, 2013, average annual salary is an average of the five years of highest allowable earnings, regardless of when in their career the highest years occurred.
- A "salary benchmark" is established for members with 15 or more years of service credit as of July 1, 2013, under which certain increases are excluded from salary for the purpose of determining allowable average annual salary. This benchmarking does not apply to members with less than 15 years of service credit as of July 1, 2013.

Normal Service Retirement

Eligibility

For members hired into an OP&F-covered position after July 1, 2013, minimum retirement age is 52 with at least 25 years of service credit.

For members hired into an OP&F-covered position on or before July 1, 2013, minimum retirement age is 48 with 25 years of service credit.



Benefit

An annual pension equal to a percentage of the allowable average annual salary. The percentage equals 2.5 percent for each of the first 20 years of service, 2.0 percent for each of the next five years of service, and 1.5 percent for each year of service in excess of 25 years. The maximum pension of 72 percent of the allowable average annual salary is paid after 33 years of service.

Service Commuted Retirement

Eligibility

For members hired into an OP&F-covered position after July 1, 2013, the minimum retirement age is 52, they must have at least 15 years of service credit and 25 years have elapsed from the date of their full-time hire.

For members hired into an OP&F-covered position on or before July 1, 2013, the minimum retirement age is 48, they must have at least 15 years of service credit and 25 years have elapsed from the date of their full-time hire.

Benefit

An annual pension equal to 1.5 percent of the allowable average annual salary multiplied by the number of full years of service credit (up to 25 years of service credit).

Age/Service Commuted Retirement

Eligibility

Age 62, 15 years of service credit and still working as a full-time police officer or firefighter.

Benefit

An annual pension that uses the same formula as for the Normal Service Retirement benefit (up to 25 years of service credit).

Actuarially Reduced

Eligibility

For members hired into an OP&F-covered position after July 1, 2013, age 48 with 25 years of service.

Benefit

An annual pension reduced to the actuarial equivalent of the amount payable had the member retired at age 52.



Rights Upon Separation From Service

Deferred Pension

If a member meets the years of service credit required for any of the service retirement pensions but leaves service before attaining the minimum retirement age, a pension becomes payable upon attainment of the qualifying age and filing the appropriate paperwork with OP&F.

Refund of Employee Contributions

Upon separation from service, a member can receive the contributions that he or she made to the plan or the employee share of member contributions picked-up on the member's behalf by their employer. Employer contributions are not refundable.

Termination before Retirement with 25 Years of Service Credit

Benefit

Same as the Normal Service Retirement benefit, except benefit commences once the member reaches minimum retirement age.

- For members hired into an OP&F-covered position after July 1, 2013, minimum retirement age is 52.
- For members hired into an OP&F-covered position on or before July 1, 2013, minimum retirement age is 48.

Termination before Retirement with 15 Years of Service Credit

Benefit

Same as the Service Commuted Retirement, except benefit commences once the member reaches minimum retirement age and 25 years have elapsed from the date of full-time hire.

- For members hired into an OP&F-covered position after July 1, 2013, the minimum retirement age is 52.
- For members hired into an OP&F-covered position on or before July 1, 2013, the minimum retirement age is 48.



Termination Before Retirement With Less Than 15 Years of Service Credit

Benefit

A lump sum amount equal to the sum of the member's contributions to OP&F.

Deferred Retirement Option Plan

Eligibility

When a member is eligible for a normal service retirement they can enter DROP by delaying retirement and continuing to work as a full-time police officer or firefighter.

- For members hired into an OP&F-covered position after July 1, 2013, normal service retirement eligibility is age 52 with at least 25 years of service credit.
- For members hired into an OP&F-covered position on or before July 1, 2013, normal service retirement eligibility is age 48 with at least 25 years of service credit.

Benefit

DROP is a cost neutral benefit offered by OP&F. Upon the DROP effective date, the member's pension is calculated as if that were their date of retirement. While the member continues to work and draw their normal salary, the amount they would have received in retirement benefits accumulates tax-deferred at OP&F on their behalf, as well as a portion of their OP&F employee contributions and interest. Since the member's pension has already been calculated:

- The years of DROP service do not apply towards the member's normal service retirement.
- If a member earns a higher salary after their DROP effective date due to a raise, job promotion, etc., it will not be used to recalculate their pension and, therefore, will not result in that member receiving a higher pension upon retirement.

The DROP interest rate is set by administrative rule and is subject to change at any time. OP&F credits interest to all DROP balances each month at a rate equal to the 10-year United States (U.S.) Treasury Note Business Day Series, as published by the U.S. Department of the Treasury, with a cap of five percent and a floor of two and a half percent. This variable interest rate is compounded annually and adjusted quarterly to match the published 10-year U.S. Treasury Note rate for the last trading business day of the preceding quarter and is in effect for the subsequent quarter.

Members whose election to participate in DROP is effective after July 1, 2013 do not qualify for annual cost- of-living allowances (COLA) at any time during DROP. Members whose election to participate in DROP is effective on or before July 1, 2013 will continue to receive a cost-of-living allowance during DROP, but only when they reach 55 years of age and have been participating in



DROP for at least one year. Those members whose enrollment date into DROP qualify them for a cost-of-living allowance during DROP will receive three percent of their base pension.

Member contributions are credited to their DROP account based on the number of years of DROP service. For those members whose election to participate in DROP is effective after July 1, 2013, OP&F applies contributions to DROP in the following manner:

| Years of DROP Service | Percentage of Member Contributions |
|-----------------------|------------------------------------|
| Years 1-3 | 50% of member's contributions |
| Years 4-5 | 75% of member's contributions |
| Years 6-8 | 100% of member's contributions |

For this group of members, the minimum participation in DROP, without penalty, is five years and the maximum is eight.

- If a member terminates employment within the first five years of electing to participate in DROP, then the member forfeits all of their DROP interest. In addition to losing their accumulated interest, members who choose to terminate employment before completing their required participation period cannot withdraw any of the funds in their DROP account until the minimum participation period has expired. The only exception to this rule is if the member dies during the minimum participation period. The member's surviving spouse, designated beneficiary or estate, as applicable will receive the entire DROP account balance determined at the time of death.
- If a member chooses to continue working after eight years in DROP, the member forfeits all DROP benefits and receives the Normal Service Retirement benefit upon retirement, which will be calculated to include the service credit earned during the DROP participation period.



For those members whose election to participate in DROP was on or before July 1, 2013, member contributions are applied to DROP under the following schedule:

| Years of DROP Service | Percentage of Member Contributions |
|-----------------------|------------------------------------|
| Years 1-2 | 50% of member's contributions |
| Year 3 | 75% of member's contributions |
| Years 4-8 | 100% of member's contributions |

For this group of members, the minimum participation in DROP, without penalty, is three years and the maximum is eight.

- If a member terminates employment within the first three years of electing to participate in DROP, then the member forfeits all of their DROP interest. In addition to losing their accumulated interest, members who choose to terminate employment before completing their required participation period cannot withdraw any of the funds in their DROP account until the minimum participation period has expired. The only exception to this rule is if the member dies during the minimum participation period. The member's surviving spouse, designated beneficiary or estate, as applicable will receive the entire DROP account balance determined at the time of death.
- If a member chooses to continue working after eight years in DROP, the member forfeits all DROP benefits and receives the Normal Service Retirement benefit upon retirement, which will be calculated to include the service credit earned during the DROP participation period.

All DROP members retiring before the eight-year max receive their Normal Service Retirement benefit determined at the time of DROP entry, with the COLA adjustment (if applicable) to their date of retirement when eligible. These members will also receive the DROP account balance as a lump sum or monthly distribution.

If a member dies while participating in DROP, the member's surviving spouse, designated beneficiary or estate will receive the entire DROP account balance determined at the time of death. Also, the member's surviving spouse or contingent dependent beneficiary will receive either the retirement allowance elected by the member at the time of DROP entry or a 50 percent joint and survivor annuity, whichever is greater. All other statutory death benefits will apply.

If the member becomes disabled while in DROP, and has not terminated employment, the member must choose either to receive a disability benefit or a service retirement with DROP. If the member chooses the disability benefit, the member forfeits all DROP benefits and receives the disability benefit, with service credit during the DROP period included.



Disability Benefits

Members who become unable to perform their official duties and whose earning capacities are impaired may qualify for disability benefits. Disability benefits are classified as either service-incurred (on-duty) or non-service-incurred (off-duty) and differ in eligibility requirements and benefit formulas. Annual medical evaluations are required for disability benefit recipients who would not have met the age and service requirements for a Normal Service Retirement, unless the Board of Trustee waives this requirement based upon an OP&F physician's certification that the disability is ongoing and further evaluation would not be cost effective. Annual earnings statements are also required to be submitted to OP&F.

Permanent and Total Disability (On-Duty)

Eligibility

No age or service requirement.

Benefit

An annual benefit equal to 72 percent of the allowable average annual salary.

Partial Disability (On-Duty)

Eligibility

No age or service requirement.

Benefit

If the member has less than 25 years of service credit an annual benefit fixed by the Board of Trustees to be a certain percent up to 60 percent of the allowable average annual salary. If the member has 25 or more years of service credit, the annual disability benefit is equal to the Normal Service Retirement amount.

Non-Service Incurred Disability (off-Duty)

Eligibility

Any age and at least five years of service credit.



Benefit

An annual amount is the percent awarded by the Board of Trustees and may not exceed 60 percent of the allowable average annual salary. Service over 25 years cannot be used in calculating an off-duty disability award.

Pre-Retirement Survivor Annuity

Eligibility

Upon death before retirement, but after having satisfied the requirements for a Normal Service Retirement or an Age/Service Commuted retirement.

Benefit

The surviving spouse or contingent dependent beneficiary will receive the equivalent of a 50 percent joint and survivor annuity, calculated under the assumption that the decedent had retired effective the day following his/her death.

Statutory Survivor Benefits

Eligibility

Upon death of any active or retired member of OP&F.

Benefit

• Surviving Spouse's Benefit

An annual amount equal to \$6,600 (\$550 monthly), plus an annual COLA of three percent of the original base benefit, paid each July 1, beginning July 1, 2000. The benefit is paid to the surviving spouse for life.

Surviving Child's Benefit

An annual amount equal to \$1,800 (\$150 monthly), payable until such child attains age 22 or marries, whichever occurs first. A dependent disabled child, regardless of age at time of member's death, is entitled to a benefit until death or recovery from disability. A COLA of three percent of the original base is payable each July 1.

• Dependent Parents' Benefit

If there is no surviving spouse or dependent children, an annual amount of \$2,400 (\$200 monthly) is payable to one dependent parent or \$1,200 (\$100 monthly) each to two dependent parents for life or until dependency ceases or remarriage. A COLA of three percent of the original base is payable each July 1.



| Survivor | Monthly Benefit | Causes of Termination |
|--------------------------|------------------------------|----------------------------|
| Widow/Widower | current amount + future COLA | *Death |
| Child | current amount + future COLA | *Death |
| | | *Marriage |
| | | *Attainment of age 22 |
| Dependent disabled child | current amount + future COLA | *Death |
| | | *Recovery from disability |
| One dependent parent | current amount + future COLA | *Death |
| | | *Re-marriage |
| Two dependent parents | 1/2 current amount (each) | *Termination of dependency |
| | + future COLA | |

| | | Base Monthly Benefit | | | |
|--------------|----------------|-----------------------|--|--|--|
| | Base Monthly | Amount Plus Increases | Monthly Increases Effective July 1, 2022 | | |
| Benefit Type | Benefit Amount | Through July 1, 2021 | | | |
| Spouse | \$550 | \$908.60 * | \$16.50 | | |
| Child | 150 | 247.80 ** | 4.50 | | |
| One Parent | 200 | 330.40 *** | 6.00 | | |
| Two Parents | 100 | 165.20 | 3.00 | | |

- * On July 1, 2000 the Statutory Surviving Spouse Benefit increased by \$12.10 per month. This increase was a percentage of the original benefit amount, equaling the percentage increase in the CPI plus unused prior increases, to a maximum of three percent. Every year after 2000, the monthly increase was \$16.50 or three percent of the base benefit.
- ** On July 1, 2000 the Statutory Child Benefit increased by \$3.30 per month. This increase was a percentage of the original benefit amount, equaling the percentage increase in the CPI plus unused prior increases, to a maximum of three percent. Every year after 2000, the monthly increase was \$4.50 or three percent of base benefit.
- *** On July 1, 2000 the Statutory Surviving One Parent Benefit increased by \$4.40 per month. This increase was a percentage of the original benefit amount, equaling the percentage increase in the CPI plus unused prior increases, to a maximum of three percent. Every year after 2000, the monthly increase was \$6.00 or three percent of base benefit.



Lump Sum Death Benefit

Eligibility

Upon death of any retired or disabled member of OP&F.

Benefit

A lump sum payment of \$1,000 is paid to the member's surviving spouse or, if no surviving spouse, to a designated beneficiary. If there is no surviving spouse or beneficiary, then it is paid to the member's estate.

State of Ohio Public Safety Officers Death Benefit Fund (DBF)

Benefit

The Death Benefit Fund is funded by the State of Ohio and provides special benefits to eligible survivors of public safety officers who are killed in the line of duty or who die from injuries or disease incurred in the performance of official duties. These eligible survivors are entitled to receive the member's full monthly salary received by the public safety officer prior to his or her death in the line of duty, plus any increases in salary that would have been granted to the deceased public safety officer. The benefit is paid to the public safety officer's eligible survivors as a group until the public safety officer's maximum pension eligibility date. This is the date on which the deceased public safety officer would have become eligible for the maximum annual retirement allowance or pension that may be paid to a member from the member's retirement system (OP&F, OPERS, SHPRS or the Cincinnati Retirement System) had the member continued to accrue service credit from that system, which will be reduced at the member's maximum pension eligibility date. These death benefit payments are in addition to the statutory survivor benefit and any optional payment plan benefits elected by the member.



Annuities

Effective Feb. 28, 1980, for those members who are retiring on either a service pension or a disability benefit, optional annuity plans can be chosen, subject to certain limitations. The member can elect actuarially reduced benefits under a joint and survivor annuity, life annuity certain and continuous, or multiple beneficiary annuity plan. The optional annuity plans allow the member's beneficiary(ies) to receive a lifetime payment upon the member's death.

Annuity Types

Single Life Annuity

For unmarried members, this is the standard annuity plan. Married members may elect this plan only if the spouse consents to the selection in writing. This plan pays the maximum retirement allowance that the member is entitled to receive and, upon the member's death, none of the pension or benefit is continued to any beneficiary.

Joint and Survivor Annuity (JSA)

Under this plan, a member designates that, upon his or her death, a certain percentage of the member's actuarially reduced benefit is continued to a surviving designated beneficiary for life.

Any percentage between one percent and 100 percent of the member's reduced pension may be continued to the surviving designated beneficiary, but the percent continued may be limited based on the beneficiary's age. If a member is married at the time benefits are elected, the standard plan is a 50 percent JSA continuing one-half of the member's reduced monthly benefit to his or her surviving spouse. If the member wants to select a plan which provides for the continuation of benefits for someone other than the spouse or less than 50 percent JSA to the spouse, the spouse must consent in writing to this choice. This plan automatically terminates upon death of the beneficiary, to be effective the month following OP&F's receipt of notice of death. Also, this plan may be cancelled upon divorce or dissolution of marriage with the consent of the member's spouse or a specific court order, at which point the annuity reverts to the single life annuity to the member. An elected option may be cancelled within one year after benefits commence, with the consent of the beneficiary.



Multiple Beneficiary Annuity

Under the multiple beneficiary annuity plan, a member may designate up to four beneficiaries at the time of retirement so that, upon death, a certain percentage of the member's actuarially reduced benefit is continued to the surviving beneficiaries for their lives. If the member is married at the time of retirement, the spouse must consent in writing for an annuity selection that provides for less than 50 percent JSA payable to the spouse.

Life Annuity Certain and Continuous (LACC)

This plan provides a lifetime allowance to the member and will only be paid to a designated beneficiary if the member dies and the period elected by the member has not expired. The minimum guarantee period is five years and the maximum is 20 years. 100 percent of the member's reduced pension continues to the beneficiary for the guarantee period selected. An elected option may be cancelled within one-year after benefits commence, with the consent of the beneficiary. If the member is married at the time of retirement, the spouse must consent in writing for an annuity selection that provides for less than a 50 percent JSA payable to the spouse.

Tiered Retirement Plan – COLA or Terminal Pay (Non-COLA)

Members retiring on or after July 24, 1986, who had 15 or more years of service credit as of January 1, 1989, are eligible to select between two different pension calculation plans. Under the terminal pay method, a member's monthly pension benefit is calculated using terminal payouts at the time of retirement such as accrued sick leave and vacation compensation to increase the amount of the average annual salary, but subject to certain limitations, and these members are not eligible to receive cost-of-living allowance adjustments. Under the COLA method, terminal payments are not included in the calculation of a member's average annual salary, but the member is eligible to receive COLA increases. The COLA method is the automatic calculation method for any active member with fewer than 15 years of service as of January 1, 1989.

Under the COLA method, members who are at least 55 years old and have been receiving OP&F pension benefits for at least one year are eligible for cost-of-living allowance adjustments. The age 55 provision for receiving a COLA does not apply to those who are receiving a permanent and total disability benefit, surviving beneficiaries under optional plans and statutory survivors.

The COLA amount for members who have 15 or more years of service credit as of July 1, 2013 and members who are receiving a pension benefit that became effective before July 1, 2013 will be equal to three percent of the member's base pension benefit.

The COLA amount for members who have less than 15 years of service credit as of July 1, 2013, and members whose pension benefit became effective on or after July 1, 2013, will be equal to a percentage of the member's base pension benefit where the percentage is the lesser of three percent or the percentage



increase in the consumer price index, if any, over the twelve-month period that ends on the thirtieth day of September of the immediately preceding year, rounded to the nearest one-tenth of one percent.

Members who retired prior to July 24, 1986 or their surviving beneficiaries under optional plans are entitled to cost-of-living allowance increases. The annual increase is paid on July 1st of each year. The annual COLA increase is \$360 under a Single Life Annuity Plan with proportional reductions for optional payment plans.

Re-employed Retiree's Defined Contribution Plan Benefit

Effective June 30, 1991, every person who is retired under an Ohio public pension plan and who is reemployed in an OP&F covered position must contribute to OP&F at the same rate as other police officers or firefighters. The employer pays the normal rate as well. If the re-employed member terminates employment before age 60, Ohio law allows the member to receive a lump sum payment of post-retirement employee contributions made during the period of re-employment, plus interest. If the member waits until age 60 to receive this benefit, he or she can choose to receive either a lump sum payment in an amount equal to twice his or her contributions, plus interest, or a lifetime annuity paid monthly. If, after calculation, the member's lifetime monthly annuity is less than \$25, the member may only select the lump sum payment option. If the member is married spousal consent is required before payment can occur.

Health Care Stipend and Medicare

Although support for retiree health care is not a vested right and is a discretionary benefit from OP&F subject to change at any time, the Board of Trustees has elected to continue to sponsor a plan for the last 45 years.

Beginning in 1974, OP&F sponsored a group health care program for retirees and their dependents by covering all or part of the plan premiums, in addition to paying all claims.

Effective July 1992, retirees and survivors made monthly medical benefit contributions which are credited to the Health Care Stabilization Fund. These contributions were reviewed on an annual basis to determine adequacy with the rising cost of health care. In 2004, a new contribution strategy was implemented. Retirees and survivors then paid a percentage of the full cost of the benefit based on the year of retirement. Due to the rising cost of health care and the primary source requirements of pension reform legislation enacted in 2013, OP&F is no longer able to offer a plan as in the past. On December 31, 2018, the group health care plan ended.

On January 1, 2019, a stipend-based health care model replaced the self-insured group health care plan. OP&F contracted with a vendor who assists eligible retirees in choosing health care plans that are available where they live (both Medicare eligible and pre-65 populations). A stipend funded by OP&F is available to these members through a Health Reimbursement Arrangement and can be used to



APPENDIX A – SUMMARY OF MAIN BENEFIT PROVISIONS

reimburse retirees for qualified health care expenses. As a result of this change, it is expected that the solvency of the HCSF will be extended allowing OP&F to provide stipends to eligible participants.

Regardless of a benefit recipient's participation in the health care program, OP&F is required by law to pay eligible recipients of a service pension, disability benefit and spousal survivor benefit for their Medicare Part B insurance premium, up to the statutory maximum provided the benefit recipient is not eligible to receive reimbursement from any other source. Once OP&F receives the necessary documentation, a monthly reimbursement is included as part of the recipient's next benefit payment.

Note: This benefit is not included in the principal valuation results, but it is included in the results of the retiree health care valuation.



APPENDIX B

STATEMENT OF ACTUARIAL ASSUMPTIONS AND OTHER INPUTS

The actuarial assumptions were adopted as of January 1, 2022, based on a quinquennial experience review covering the period 2017 through 2021. The next review of the actuarial assumptions is to be completed for adoption with the January 1, 2027 valuation.

Interest Rate

7.50 percent per annum, compounded annually.

Salary Increase Rates

Assumed annual salary increases are as follows:

| Years of Service | Salary Increase Rate | | |
|---------------------|-------------------------|--|--|
| Less than 1 | 10.50% | | |
| 1 | 9.00% | | |
| 2 | 8.00% | | |
| 3 | 6.00% | | |
| 4 | 4.50% | | |
| 5 or more | 3.75% | | |

Payroll Growth

3.25 percent per annum, compounded annually, consisting of inflation rate of 2.75 percent plus productivity increase rate of 0.5 percent.

DROP Interest Crediting Rate

3.75 percent per annum, compounded annually.

CPI-Based COLA

2.2 percent simple for increases based on the lesser of the increase in CPI and three percent.



APPENDIX B - STATEMENT OF ACTUARIAL ASSUMPTIONS AND OTHER INPUTS

Withdrawal Rates

The following sample withdrawal rates are based on age and service (for causes other than death, disability, or retirement):

| Years of Service | Firefighters | Police |
|---------------------|--------------|--------|
| 0 | 5.00% | 14.00% |
| 5 | 1.00% | 2.00% |
| 10 | 0.75% | 1.50% |
| 15 | 0.50% | 1.00% |
| 20 | 0.20% | 0.65% |
| 24 | 0.20% | 0.25% |

Rates of Disability

The following are sample rates of disability and occurrence of disability by type:

| Age | Firefighters | Police |
|-----|--------------|---------|
| 20 | 0.0004% | 0.0005% |
| 25 | 0.0020% | 0.0032% |
| 30 | 0.0088% | 0.0401% |
| 35 | 0.0364% | 0.0693% |
| 40 | 0.0816% | 0.1814% |
| 45 | 0.1388% | 0.2399% |
| 50 | 0.5348% | 0.6080% |
| 55 | 0.8100% | 0.5036% |
| 60 | 1.2240% | 0.9351% |
| 64 | 2.8760% | 1.3946% |

| Type of Disability | | | | |
|-----------------------------|-----|--|--|--|
| On duty permanent and total | 17% | | | |
| On duty partial | 58% | | | |
| Off duty ordinary | 25% | | | |

APPENDIX B – STATEMENT OF ACTUARIAL ASSUMPTIONS AND OTHER INPUTS

Retirement Rates

The following rates apply to members who are not currently in DROP, but either have reached DROP eligibility or may become eligible for DROP in the future. Upon first eligibility for retirement, the rate is 15 percent for Firefighters and 20 percent for Police. After first eligibility the rates are as follows:

| Years of Service | Firefighters | Police |
|---------------------|--------------|--------|
| 25 | 15% | 20% |
| 26 | 5% | 8% |
| 27 | 5% | 8% |
| 28 | 5% | 8% |
| 29 | 5% | 8% |
| 30 | 5% | 8% |
| 31 | 5% | 15% |
| 32 | 5% | 15% |
| 33 | 5% | 15% |
| 34 | 5% | 15% |
| 35+ | 100% | 100% |

The following rates apply to members who will not reach retirement eligibility prior to age 62:

Firefighters

| | Years of Service | | | | |
|-----|------------------|------|--|--|--|
| Age | 15-23 24 | | | | |
| 62 | 25% | 15% | | | |
| 63 | 25% | 15% | | | |
| 64 | 25% | 15% | | | |
| 65 | 100% | 100% | | | |

Police

| | Years of Service | | | |
|-----|------------------|------|--|--|
| Age | 15-23 | 24 | | |
| 62 | 25% | 20% | | |
| 63 | 25% | 20% | | |
| 64 | 25% | 20% | | |
| 65 | 100% | 100% | | |



APPENDIX B - STATEMENT OF ACTUARIAL ASSUMPTIONS AND OTHER INPUTS

Deferred Retirement Option Plan Elections

80 percent of members who do not retire when first eligible are assumed to elect DROP.

DROP Retirement Rates

The following rates of retirement apply to members in DROP as of the valuation date:

| Years of Service | Firefighters | Police |
|---------------------|--------------|---------|
| 25 | 4.75% | 7.25% |
| 26 | 4.75% | 6.00% |
| 27 | 4.75% | 6.25% |
| 28 | 6.00% | 6.00% |
| 29 | 9.00% | 8.50% |
| 30 | 15.75% | 16.75% |
| 31 | 11.00% | 16.25% |
| 32 | 44.00% | 50.00% |
| 33+ | 100.00% | 100.00% |

Retirement Age for Inactive Vested Participants

Commencement at age 48 and 25 years of service from full-time hire date, whichever is later.



Service Retiree and Vested Former Member Mortality

Mortality for service retirees is based on the Pub-2010 Below-Median Safety Amount-Weighted Healthy Retiree mortality table with rates adjusted by 96.2% for males and 98.7% for females. All rates are projected using the MP-2021 Improvement Scale.

Disabled Mortality

Mortality for disabled retirees is based on the Pub-2010 Safety Amount-Weighted Disabled Retiree mortality table with rates adjusted by 135% for males and 97.9% for females. All rates are projected using the MP-2021 Improvement Scale.

Contingent Annuitant Mortality

Mortality for contingent annuitants is based on the Pub-2010 Below-Median Safety Amount-Weighted Contingent Annuitant Retiree mortality table with rates adjusted by 108.9% for males and 131% for females. All rates are projected using the MP-2021 Improvement Scale.

Pre-Retirement Mortality

Mortality for active members is based on the Pub-2010 Below-Median Safety Amount-Weighted Employee mortality table. All rates are projected using the MP-2021 Improvement Scale.

Credited Service

Credited service on the valuation date, as provided by OP&F, includes all service credited under the plan, including service transferred from other municipal plans and purchased service. The valuation assumes future service will be credited at the rate of one year per year worked, with no assumed future crediting of transferred service or purchased service.

415 Limits

Benefits are limited by the IRC Section 415, assumed to increase 2.75 percent per annum.



Future Expenses

The normal cost is increased by all administrative expenses budgeted, net of the State Subsidy received from the State of Ohio.

Unknown Data for Members

Same as those exhibited by members with similar known characteristics. Deferred benefits are estimated at termination until OP&F has determined the actual amount at retirement. Reported salaries that are less than \$10,000 when annualized are assumed to be anomalous and are reset to \$60,000. The adjustment for late reported salaries is not applied in this case.

Late Reported Salaries

A 1.191 percent load is added to the 2021 reported salaries to account for salaries accrued but not reported for the valuation. This adjustment is based on an average of plan experience from the prior three years. The raw adjustment rates for each year are as follows:

| Pay for Calendar Year | Raw Adjustment |
|-----------------------|----------------|
| 2021 | 1.418% |
| 2020 | 0.820% |
| 2019 | 1.335% |

This adjustment will be reviewed annually for future late reported salaries.

Percent Married

80 percent of active members are assumed to be married.

Age of Spouse

Wives are assumed to be three years younger than their husbands.



Optional Form Election

40 percent of service retirees and 15 percent of disability retirees are assumed to elect a 45 percent Joint and Survivor pension at retirement. If the joint annuitant predeceases the retiree, the increase, or pop-up, in the retiree's benefit associated with the 45 percent Joint and Survivor pension is assumed to be 14.36 percent for disability retirees and 10.50 percent for all other retirees.

DROP Account Distributions

For currently retired members who have an outstanding DROP balance we assume they will take their balance in installments over 10 years. For members who terminate DROP before the required three or five years, distribution of the account balance is assumed to be made in a lump sum payment at the end of the three- or five-year period. Distributions for active members are assumed to be made in a lump sum or installments at retirements in a pattern equivalent to 25 percent receiving lump sums, 30 percent receiving installments over two years, and 45 percent receiving installments over 10 years.

Dependent Parents

None anticipated, but dependency of any dependent parent in receipt of benefits is assumed to continue for the parent's lifetime.

Dependent Children

Each member is assumed to have two children, born when the member was age 26. Dependency is assumed to cease when the child is 22.

Medicare Part B Premium Reimbursement

For service and disability retirements, as well as survivors, Ohio Police & Fire reimburses the standard Medicare Part B premium (\$107.00 per month for 2021) provided the retiree is not eligible for reimbursement from any other sources.

70 percent of members are assumed to be eligible for reimbursement once they reach age 65.

The Medicare Part B Premium assumptions are only used to determine the cost if the Medicare Part B reimbursement payments were to be paid from the pension trust instead of the Health Care Stabilization Fund.



Changes in actuarial assumptions since the January 1, 2021 valuation:

The assumptions used for the January 1, 2022 actuarial valuation are based on the quinquennial experience review prepared as of December 31, 2021 and adopted by the Board of Trustees on October 26, 2022. Material assumptions and methods that were changed since the prior valuation:

- The investment return assumption was lowered from 8.00 percent to 7.50 percent
- The DROP interest crediting rate was lowered from 4.00 percent to 3.75 percent
- The mortality assumption, withdrawal rates, retirement rates, and disability rates were changed
- The DROP participation rate was lowered from 90 percent to 80 percent
- The percent married assumption was changed from assuming 75 percent of members are married to 80 percent.
- The percentage of members assumed to elect a joint annuity was changed from 33 percent to 40 percent for service retirees and from 10 percent to 15 percent for disabled retirees. The percentage continued to the joint annuitant assumption was changed from 40 percent to 45 percent.



Methods

Actuarial Cost Method

Projected benefit method with individual level percentage entry age normal cost and actuarial accrued liability. Gains and losses are reflected in the actuarial accrued liability. Prior to January 1, 2015, to be consistent with the asset methodology employed by OP&F, DROP balances were netted out of the liabilities.

Adjustment for Re-Employed Retirees

The present value of future benefits and the actuarial accrued liability are increased by an amount for the re-employed retirees' defined contribution plan benefit equal to two times the re-employed retirees' post-retirement contribution balances on the valuation date.

Adjustment for Employer Accrued Liability

The actuarial accrued liability is reduced by the present value of special employer contributions -- referred to as "Local Funds." Local governments are required by state statute to pay the unfunded portion of the actuarially- determined liability of the local police and firefighter's relief and pension funds that were merged to form OP&F in 1967. The ORC designates this obligation of the local governments to the Employers' Accrued Liability. Interest on the outstanding balance is being accrued at the rate of 4.25 percent, compounded semiannually. Local governments began repayment in 1969 and payments are required to be made until 2035. The present value of the remaining payments on the valuation date is determined using the valuation interest rate.

Asset Valuation Method

A four-year moving average market value of assets that spreads the difference between the actual investment income and the expected income on the market value (based on the valuation interest rate) over a period of four years. The actuarial value shall not be less than 80 percent or more than 120 percent of market value.

Data

Census and Assets

The valuation was based on members of OP&F as of the valuation date and does not take into account future members. All census and asset data was supplied by OP&F. Salaries and benefits tabulated in the tables in this report were summed to pennies, but displayed to whole dollars, thus, totals may not be consistent with amounts displayed due to rounding.



EXHIBIT I – 1a

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Age POLICE

| | Male | | F | Female | | Total | |
|-----|--------|--------------|--------|--------------|--------|--------------|--|
| Age | Number | Compensation | Number | Compensation | Number | Compensation | |
| 19 | 2 | \$ 104,803 | - | \$ - | 2 | \$ 104,803 | |
| 20 | 6 | 263,843 | 1 | 41,156 | 7 | 304,999 | |
| 21 | 40 | 2,014,753 | 8 | 441,609 | 48 | 2,456,362 | |
| 22 | 108 | 5,667,167 | 15 | 817,944 | 123 | 6,485,111 | |
| 23 | 173 | 9,988,187 | 33 | 1,940,858 | 206 | 11,929,045 | |
| 24 | 219 | 12,693,623 | 68 | 3,956,892 | 287 | 16,650,515 | |
| 25 | 316 | 19,815,727 | 59 | 3,594,584 | 375 | 23,410,311 | |
| 26 | 325 | 20,958,369 | 67 | 4,338,508 | 392 | 25,296,878 | |
| 27 | 381 | 25,245,305 | 61 | 4,020,387 | 442 | 29,265,693 | |
| 28 | 385 | 26,730,855 | 66 | 4,491,361 | 451 | 31,222,216 | |
| 29 | 384 | 27,992,870 | 88 | 6,185,908 | 472 | 34,178,778 | |
| 30 | 415 | 30,358,823 | 80 | 5,729,648 | 495 | 36,088,471 | |
| 31 | 440 | 32,528,089 | 71 | 5,133,114 | 511 | 37,661,203 | |
| 32 | 422 | 32,620,562 | 82 | 5,701,079 | 504 | 38,321,642 | |
| 33 | 425 | 33,829,718 | 45 | 3,203,816 | 470 | 37,033,533 | |
| 34 | 428 | 34,489,885 | 45 | 3,211,324 | 473 | 37,701,209 | |
| 35 | 404 | 32,519,379 | 48 | 3,349,799 | 452 | 35,869,178 | |
| 36 | 431 | 35,112,377 | 38 | 2,937,008 | 469 | 38,049,385 | |
| 37 | 414 | 35,369,262 | 41 | 3,320,167 | 455 | 38,689,429 | |
| 38 | 376 | 32,540,255 | 39 | 3,319,913 | 415 | 35,860,168 | |
| 39 | 378 | 31,827,682 | 36 | 3,063,160 | 414 | 34,890,841 | |
| 40 | 339 | 30,495,473 | 41 | 3,553,218 | 380 | 34,048,690 | |
| 41 | 368 | 32,620,248 | 45 | 3,726,792 | 413 | 36,347,040 | |
| 42 | 328 | 29,744,607 | 40 | 3,436,311 | 368 | 33,180,918 | |
| 43 | 313 | 28,787,101 | 35 | 3,340,138 | 348 | 32,127,240 | |
| 44 | 370 | 34,267,228 | 22 | 1,896,625 | 392 | 36,163,852 | |
| 45 | 340 | 31,079,404 | 35 | 3,064,237 | 375 | 34,143,642 | |
| 46 | 383 | 36,019,923 | 31 | 2,930,239 | 414 | 38,950,162 | |
| 47 | 389 | 36,555,277 | 39 | 3,526,015 | 428 | 40,081,291 | |



EXHIBIT I – 1a

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Age POLICE (continued)

| | Male | | F | Female | | Total | |
|-------|--------|------------------|--------|----------------|--------|------------------|--|
| Age | Number | Compensation | Number | Compensation | Number | Compensation | |
| 48 | 406 | \$ 38,694,681 | 49 | \$ 4,584,187 | 455 | \$ 43,278,868 | |
| 49 | 447 | 42,677,431 | 44 | 4,226,705 | 491 | 46,904,136 | |
| 50 | 497 | 47,158,039 | 49 | 4,683,965 | 546 | 51,842,004 | |
| 51 | 544 | 52,178,010 | 65 | 6,348,059 | 609 | 58,526,069 | |
| 52 | 474 | 45,518,995 | 50 | 4,545,908 | 524 | 50,064,903 | |
| 53 | 423 | 41,618,189 | 33 | 3,262,814 | 456 | 44,881,003 | |
| 54 | 358 | 34,373,271 | 37 | 3,559,373 | 395 | 37,932,643 | |
| 55 | 307 | 30,059,472 | 38 | 3,663,370 | 345 | 33,722,842 | |
| 56 | 232 | 23,264,126 | 22 | 1,822,685 | 254 | 25,086,811 | |
| 57 | 177 | 16,916,021 | 25 | 2,351,555 | 202 | 19,267,577 | |
| 58 | 126 | 11,845,800 | 21 | 1,928,159 | 147 | 13,773,959 | |
| 59 | 98 | 9,122,657 | 8 | 707,187 | 106 | 9,829,844 | |
| 60 | 80 | 6,999,158 | 10 | 967,149 | 90 | 7,966,308 | |
| 61 | 57 | 5,090,399 | 9 | 810,060 | 66 | 5,900,459 | |
| 62 | 44 | 3,892,676 | 2 | 154,424 | 46 | 4,047,100 | |
| 63 | 27 | 2,444,355 | 4 | 340,725 | 31 | 2,785,080 | |
| 64 | 24 | 2,118,140 | 5 | 417,114 | 29 | 2,535,254 | |
| 65 | 11 | 937,374 | - | - | 11 | 937,374 | |
| 66 | 8 | 720,841 | 2 | 137,378 | 10 | 858,219 | |
| 67 | 8 | 743,231 | - | - | 8 | 743,231 | |
| 68 | 6 | 507,471 | - | - | 6 | 507,471 | |
| 69 | 3 | 267,799 | - | - | 3 | 267,799 | |
| 70 | 2 | 204,339 | - | - | 2 | 204,339 | |
| 71 | 1 | 47,259 | - | - | 1 | 47,259 | |
| 72 | 2 | 161,980 | - | - | 2 | 161,980 | |
| 73 | 2 | 140,493 | - | - | 2 | 140,493 | |
| 74 | 1 | 100,167 | - | - | 1 | 100,167 | |
| 75 | - | - | - | - | - | - | |
| 76 | - | - | - | - | - | - | |
| 77 | - | - | - | - | - | - | |
| 78 | 1 | 44,181 | | | 1 | 44,181 | |
| Total | 13,668 | \$ 1,160,087,347 | 1,752 | \$ 138,782,629 | 15,420 | \$ 1,298,869,976 | |



EXHIBIT I – 1b

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Years of Service POLICE

| | Male | | Female | | Total | |
|---------|--------|---------------|--------|---------------|--------|---------------|
| Service | Number | Compensation | Number | Compensation | Number | Compensation |
| 0 | 944 | \$ 50,617,553 | 212 | \$ 11,994,011 | 1,156 | \$ 62,611,564 |
| 1 | 590 | 34,647,408 | 135 | 7,890,378 | 725 | 42,537,786 |
| 2 | 740 | 47,654,060 | 142 | 9,203,649 | 882 | 56,857,709 |
| 3 | 720 | 50,269,380 | 150 | 10,496,382 | 870 | 60,765,762 |
| 4 | 589 | 44,153,539 | 73 | 5,329,396 | 662 | 49,482,936 |
| 5 | 549 | 43,136,811 | 92 | 7,465,221 | 641 | 50,602,032 |
| 6 | 547 | 45,359,198 | 70 | 5,428,996 | 617 | 50,788,194 |
| 7 | 512 | 42,316,188 | 45 | 3,490,666 | 557 | 45,806,853 |
| 8 | 484 | 39,556,197 | 34 | 2,735,783 | 518 | 42,291,980 |
| 9 | 425 | 35,968,412 | 36 | 2,996,406 | 461 | 38,964,819 |
| 10 | 350 | 30,863,293 | 20 | 1,823,444 | 370 | 32,686,736 |
| 11 | 266 | 24,672,339 | 18 | 1,526,854 | 284 | 26,199,192 |
| 12 | 184 | 16,021,604 | 16 | 1,304,273 | 200 | 17,325,877 |
| 13 | 326 | 28,454,851 | 30 | 2,728,096 | 356 | 31,182,946 |
| 14 | 461 | 41,879,074 | 57 | 5,183,148 | 518 | 47,062,222 |
| 15 | 360 | 33,589,340 | 49 | 4,313,790 | 409 | 37,903,130 |
| 16 | 262 | 24,300,728 | 32 | 2,936,113 | 294 | 27,236,841 |
| 17 | 293 | 27,704,465 | 38 | 3,436,637 | 331 | 31,141,102 |
| 18 | 264 | 25,166,132 | 30 | 2,657,781 | 294 | 27,823,913 |
| 19 | 342 | 32,229,724 | 38 | 3,584,921 | 380 | 35,814,645 |
| 20 | 364 | 33,882,086 | 47 | 4,459,340 | 411 | 38,341,426 |
| 21 | 361 | 34,468,518 | 30 | 2,708,473 | 391 | 37,176,991 |
| 22 | 389 | 37,605,597 | 44 | 4,307,646 | 433 | 41,913,244 |
| 23 | 443 | 42,343,020 | 42 | 4,007,662 | 485 | 46,350,681 |
| 24 | 429 | 42,016,813 | 44 | 4,389,618 | 473 | 46,406,430 |
| 25 | 395 | 39,727,286 | 34 | 3,504,191 | 429 | 43,231,477 |



EXHIBIT I – 1b

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Years of Service POLICE (continued)

| | Male | | F | emale | Total | | |
|---------|--------|------------------|--------|----------------|--------|------------------|--|
| Service | Number | Compensation | Number | Compensation | Number | Compensation | |
| 26 | 404 | \$ 40,820,466 | 40 | \$ 3,778,764 | 444 | \$ 44,599,230 | |
| 27 | 351 | 35,768,750 | 29 | 2,794,435 | 380 | 38,563,185 | |
| 28 | 300 | 30,363,203 | 35 | 3,249,584 | 335 | 33,612,788 | |
| 29 | 264 | 25,991,656 | 27 | 2,690,527 | 291 | 28,682,183 | |
| 30 | 224 | 22,617,597 | 20 | 1,958,697 | 244 | 24,576,294 | |
| 31 | 239 | 24,433,709 | 21 | 2,217,446 | 260 | 26,651,155 | |
| 32 | 143 | 15,099,037 | 15 | 1,471,064 | 158 | 16,570,101 | |
| 33 | 81 | 8,975,149 | 4 | 401,305 | 85 | 9,376,454 | |
| 34 | 30 | 3,042,408 | 1 | 104,658 | 31 | 3,147,066 | |
| 35 | 16 | 1,429,392 | - | - | 16 | 1,429,392 | |
| 36 | 12 | 1,306,568 | 2 | 213,274 | 14 | 1,519,843 | |
| 37 | 5 | 598,058 | - | - | 5 | 598,058 | |
| 38 | 1 | 82,013 | - | - | 1 | 82,013 | |
| 39 | 2 | 310,087 | - | - | 2 | 310,087 | |
| 40 | 2 | 152,300 | - | - | 2 | 152,300 | |
| 41 | - | - | - | - | - | - | |
| 42 | 1 | 92,705 | - | - | 1 | 92,705 | |
| 43 | - | - | - | - | - | - | |
| 44 | 3 | 294,903 | - | - | 3 | 294,903 | |
| 45 | - | - | - | - | - | - | |
| 46 | - | - | - | - | - | - | |
| 47 | - | - | - | - | - | - | |
| 48 | - | - | - | - | - | - | |
| 49 | 1 | 105,729 | - | - | 1 | 105,729 | |
| 50 | - | - | - | - | - | | |
| Total | 13,668 | \$ 1,160,087,347 | 1,752 | \$ 138,782,629 | 15,420 | \$ 1,298,869,976 | |



EXHIBIT I – 2a

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Age FIREFIGHTERS'

| | Male | | F | emale | Total | |
|------------|--------|--------------|--------|--------------|--------|--------------|
| Age | Number | Compensation | Number | Compensation | Number | Compensation |
| 19 & Under | 11 | \$ 566,580 | - | \$ - | 11 | \$ 566,580 |
| 20 | 25 | 1,340,145 | 2 | 95,126 | 27 | 1,435,271 |
| 21 | 73 | 4,072,738 | 4 | 236,532 | 77 | 4,309,270 |
| 22 | 130 | 7,939,619 | 8 | 448,615 | 138 | 8,388,234 |
| 23 | 154 | 9,345,011 | 9 | 525,269 | 163 | 9,870,280 |
| 24 | 172 | 10,764,932 | 18 | 1,039,205 | 190 | 11,804,137 |
| 25 | 222 | 14,681,903 | 16 | 1,043,624 | 238 | 15,725,527 |
| 26 | 263 | 18,137,575 | 20 | 1,104,093 | 283 | 19,241,668 |
| 27 | 302 | 20,935,683 | 18 | 1,299,850 | 320 | 22,235,533 |
| 28 | 303 | 22,638,608 | 16 | 1,110,370 | 319 | 23,748,977 |
| 29 | 352 | 25,964,168 | 17 | 1,057,068 | 369 | 27,021,236 |
| 30 | 350 | 26,787,215 | 32 | 2,179,670 | 382 | 28,966,885 |
| 31 | 401 | 30,533,397 | 25 | 1,712,489 | 426 | 32,245,886 |
| 32 | 386 | 30,394,465 | 20 | 1,488,361 | 406 | 31,882,826 |
| 33 | 380 | 30,555,631 | 21 | 1,688,745 | 401 | 32,244,376 |
| 34 | 437 | 35,493,319 | 19 | 1,423,701 | 456 | 36,917,020 |
| 35 | 426 | 35,585,637 | 18 | 1,362,014 | 444 | 36,947,651 |
| 36 | 449 | 37,387,122 | 18 | 1,347,142 | 467 | 38,734,264 |
| 37 | 418 | 35,042,479 | 19 | 1,452,241 | 437 | 36,494,719 |
| 38 | 388 | 33,964,729 | 13 | 1,134,036 | 401 | 35,098,765 |
| 39 | 409 | 35,721,744 | 13 | 1,092,482 | 422 | 36,814,226 |
| 40 | 385 | 34,861,936 | 9 | 783,731 | 394 | 35,645,667 |
| 41 | 384 | 35,130,719 | 14 | 1,378,700 | 398 | 36,509,419 |
| 42 | 415 | 38,159,725 | 12 | 1,081,120 | 427 | 39,240,845 |
| 43 | 394 | 37,166,031 | 15 | 1,321,874 | 409 | 38,487,905 |
| 44 | 351 | 32,942,889 | 11 | 982,749 | 362 | 33,925,638 |
| 45 | 370 | 36,001,911 | 11 | 916,220 | 381 | 36,918,131 |
| 46 | 387 | 38,526,854 | 15 | 1,292,403 | 402 | 39,819,257 |
| 47 | 387 | 38,612,116 | 5 | 506,855 | 392 | 39,118,971 |



EXHIBIT I – 2a

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Age FIREFIGHTERS' (continued)

| | | Male | F | emale | , | Total |
|-------|--------|------------------|--------|---------------|--------|------------------|
| Age | Number | Compensation | Number | Compensation | Number | Compensation |
| 48 | 369 | \$ 36,947,665 | 11 | \$ 1,092,152 | 380 | \$ 38,039,817 |
| 49 | 414 | 41,768,152 | 10 | 942,115 | 424 | 42,710,267 |
| 50 | 421 | 42,152,881 | 11 | 954,142 | 432 | 43,107,024 |
| 51 | 453 | 45,892,496 | 5 | 522,012 | 458 | 46,414,507 |
| 52 | 426 | 44,590,485 | 13 | 1,273,021 | 439 | 45,863,506 |
| 53 | 368 | 37,870,128 | 10 | 1,054,475 | 378 | 38,924,603 |
| 54 | 311 | 32,150,573 | 3 | 320,426 | 314 | 32,470,999 |
| 55 | 317 | 32,518,554 | 5 | 624,763 | 322 | 33,143,317 |
| 56 | 292 | 29,632,875 | 4 | 389,368 | 296 | 30,022,242 |
| 57 | 244 | 24,273,794 | 3 | 270,169 | 247 | 24,543,963 |
| 58 | 197 | 19,618,563 | 5 | 393,504 | 202 | 20,012,067 |
| 59 | 156 | 15,693,856 | 3 | 291,531 | 159 | 15,985,386 |
| 60 | 117 | 11,797,795 | 1 | 93,056 | 118 | 11,890,851 |
| 61 | 88 | 8,978,775 | 3 | 288,292 | 91 | 9,267,067 |
| 62 | 54 | 4,998,890 | 2 | 148,989 | 56 | 5,147,879 |
| 63 | 46 | 4,514,234 | 1 | 91,343 | 47 | 4,605,576 |
| 64 | 25 | 2,332,488 | 1 | 107,941 | 26 | 2,440,429 |
| 65 | 8 | 761,838 | - | - | 8 | 761,838 |
| 66 | 7 | 572,188 | - | - | 7 | 572,188 |
| 67 | 6 | 622,945 | - | - | 6 | 622,945 |
| 68 | 2 | 157,859 | - | - | 2 | 157,859 |
| 69 | 3 | 272,634 | - | - | 3 | 272,634 |
| 70 | 1 | 74,502 | - | - | 1 | 74,502 |
| 71 | 1 | 88,009 | - | - | 1 | 88,009 |
| 72 | 1 | 95,711 | - | - | 1 | 95,711 |
| 73 | 1 | 115,499 | - | - | 1 | 115,499 |
| 74 | 1 | 80,201 | - | - | 1 | 80,201 |
| 75 | 1 | 69,015 | - | - | 1 | 69,015 |
| 76 | - | - | - | - | - | - |
| 77 | 1 | 73,774 | - | - | 1 | 73,774 |
| Total | 13,455 | \$ 1,197,971,259 | 509 | \$ 39,961,584 | 13,964 | \$ 1,237,932,843 |



EXHIBIT I – 2b

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Years of Service FIREFIGHTERS'

| | Male | | F | emale | , | Total | |
|---------|--------|---------------|--------|--------------|--------|---------------|--|
| Service | Number | Compensation | Number | Compensation | Number | Compensation | |
| 0 | 865 | \$ 47,148,437 | 105 | \$ 5,685,399 | 970 | \$ 52,833,836 | |
| 1 | 520 | 32,158,020 | 43 | 2,600,741 | 563 | 34,758,762 | |
| 2 | 667 | 46,250,575 | 59 | 4,188,196 | 726 | 50,438,771 | |
| 3 | 644 | 47,754,823 | 28 | 2,125,184 | 672 | 49,880,007 | |
| 4 | 646 | 51,769,780 | 26 | 1,994,796 | 672 | 53,764,576 | |
| 5 | 563 | 46,456,794 | 13 | 1,121,204 | 576 | 47,577,998 | |
| 6 | 483 | 39,863,806 | 12 | 1,007,788 | 495 | 40,871,594 | |
| 7 | 479 | 41,329,641 | 21 | 1,843,042 | 500 | 43,172,683 | |
| 8 | 464 | 40,532,773 | 16 | 1,355,522 | 480 | 41,888,294 | |
| 9 | 372 | 33,144,158 | 8 | 740,039 | 380 | 33,884,196 | |
| 10 | 354 | 31,752,184 | 11 | 1,024,814 | 365 | 32,776,998 | |
| 11 | 331 | 30,887,667 | 9 | 869,334 | 340 | 31,757,001 | |
| 12 | 248 | 22,263,181 | 6 | 593,044 | 254 | 22,856,226 | |
| 13 | 364 | 33,206,074 | 8 | 714,422 | 372 | 33,920,496 | |
| 14 | 316 | 28,235,918 | 8 | 761,957 | 324 | 28,997,875 | |
| 15 | 325 | 31,823,428 | 15 | 1,309,386 | 340 | 33,132,815 | |
| 16 | 247 | 23,573,041 | 7 | 632,137 | 254 | 24,205,178 | |
| 17 | 260 | 25,253,690 | 8 | 711,436 | 268 | 25,965,126 | |
| 18 | 408 | 37,814,571 | 7 | 581,908 | 415 | 38,396,479 | |
| 19 | 324 | 31,429,512 | 9 | 926,928 | 333 | 32,356,441 | |
| 20 | 385 | 38,477,824 | 12 | 1,110,423 | 397 | 39,588,247 | |
| 21 | 452 | 45,062,231 | 17 | 1,654,040 | 469 | 46,716,270 | |
| 22 | 461 | 46,349,223 | 16 | 1,642,223 | 477 | 47,991,446 | |
| 23 | 455 | 48,235,881 | 18 | 1,870,955 | 473 | 50,106,835 | |
| 24 | 435 | 45,902,469 | 4 | 394,541 | 439 | 46,297,009 | |
| 25 | 405 | 42,198,054 | 9 | 920,816 | 414 | 43,118,870 | |



EXHIBIT I – 2b

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Years of Service FIREFIGHTERS' (continued)

| | Male | | F | Female | | Total | |
|---------|--------|------------------|--------|---------------|--------|------------------|--|
| Service | Number | Compensation | Number | Compensation | Number | Compensation | |
| 26 | 324 | \$ 33,372,420 | 2 | \$ 215,406 | 326 | \$ 33,587,826 | |
| 27 | 292 | 31,209,721 | 3 | 426,226 | 295 | 31,635,947 | |
| 28 | 251 | 26,554,167 | - | - | 251 | 26,554,167 | |
| 29 | 273 | 27,954,386 | 2 | 231,846 | 275 | 28,186,232 | |
| 30 | 223 | 23,887,255 | 2 | 238,584 | 225 | 24,125,839 | |
| 31 | 164 | 17,237,830 | 2 | 211,453 | 166 | 17,449,283 | |
| 32 | 267 | 28,020,851 | 3 | 257,795 | 270 | 28,278,646 | |
| 33 | 93 | 10,261,141 | - | - | 93 | 10,261,141 | |
| 34 | 38 | 4,460,890 | - | - | 38 | 4,460,890 | |
| 35 | 31 | 3,362,908 | - | - | 31 | 3,362,908 | |
| 36 | 16 | 1,717,190 | - | - | 16 | 1,717,190 | |
| 37 | 1 | 133,964 | - | - | 1 | 133,964 | |
| 38 | 4 | 369,149 | - | - | 4 | 369,149 | |
| 39 | 2 | 240,947 | - | - | 2 | 240,947 | |
| 40 | 3 | 314,686 | - | - | 3 | 314,686 | |
| 41 | - | - | - | - | - | - | |
| 42 | - | - | - | - | - | - | |
| 43 | - | - | - | - | - | - | |
| 44 | - | - | - | - | - | - | |
| 45 | - | - | - | - | - | - | |
| 46 | - | - | - | - | - | - | |
| 47 | - | - | - | - | - | - | |
| 48 | - | - | - | - | - | - | |
| 49 | - | - | - | - | - | - | |
| 50 | - | | - | | - | - | |
| Total | 13,455 | \$ 1,197,971,259 | 509 | \$ 39,961,584 | 13,964 | \$ 1,237,932,843 | |



EXHIBIT I – 3a

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Age TOTAL

| | Male | | F | 'emale | Total | |
|------------|--------|--------------|--------|--------------|--------|--------------|
| Age | Number | Compensation | Number | Compensation | Number | Compensation |
| 19 & Under | 13 | \$ 671,383 | - | \$ - | 13 | \$ 671,383 |
| 20 | 31 | 1,603,989 | 3 | 136,282 | 34 | 1,740,271 |
| 21 | 113 | 6,087,491 | 12 | 678,141 | 125 | 6,765,632 |
| 22 | 238 | 13,606,786 | 23 | 1,266,559 | 261 | 14,873,345 |
| 23 | 327 | 19,333,197 | 42 | 2,466,127 | 369 | 21,799,324 |
| 24 | 391 | 23,458,555 | 86 | 4,996,097 | 477 | 28,454,652 |
| 25 | 538 | 34,497,630 | 75 | 4,638,208 | 613 | 39,135,838 |
| 26 | 588 | 39,095,945 | 87 | 5,442,601 | 675 | 44,538,546 |
| 27 | 683 | 46,180,989 | 79 | 5,320,238 | 762 | 51,501,226 |
| 28 | 688 | 49,369,462 | 82 | 5,601,731 | 770 | 54,971,193 |
| 29 | 736 | 53,957,038 | 105 | 7,242,977 | 841 | 61,200,014 |
| 30 | 765 | 57,146,039 | 112 | 7,909,318 | 877 | 65,055,357 |
| 31 | 841 | 63,061,486 | 96 | 6,845,603 | 937 | 69,907,089 |
| 32 | 808 | 63,015,027 | 102 | 7,189,440 | 910 | 70,204,467 |
| 33 | 805 | 64,385,349 | 66 | 4,892,560 | 871 | 69,277,909 |
| 34 | 865 | 69,983,204 | 64 | 4,635,026 | 929 | 74,618,229 |
| 35 | 830 | 68,105,015 | 66 | 4,711,814 | 896 | 72,816,829 |
| 36 | 880 | 72,499,499 | 56 | 4,284,150 | 936 | 76,783,649 |
| 37 | 832 | 70,411,741 | 60 | 4,772,407 | 892 | 75,184,148 |
| 38 | 764 | 66,504,985 | 52 | 4,453,949 | 816 | 70,958,934 |
| 39 | 787 | 67,549,426 | 49 | 4,155,641 | 836 | 71,705,067 |
| 40 | 724 | 65,357,409 | 50 | 4,336,949 | 774 | 69,694,358 |
| 41 | 752 | 67,750,966 | 59 | 5,105,492 | 811 | 72,856,459 |
| 42 | 743 | 67,904,333 | 52 | 4,517,431 | 795 | 72,421,763 |
| 43 | 707 | 65,953,133 | 50 | 4,662,012 | 757 | 70,615,145 |
| 44 | 721 | 67,210,116 | 33 | 2,879,374 | 754 | 70,089,490 |
| 45 | 710 | 67,081,315 | 46 | 3,980,458 | 756 | 71,061,773 |
| 46 | 770 | 74,546,777 | 46 | 4,222,642 | 816 | 78,769,419 |
| 47 | 776 | 75,167,392 | 44 | 4,032,870 | 820 | 79,200,262 |



EXHIBIT I – 3a

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Age TOTAL (continued)

| | Male | | F | emale | , | Total |
|-------|--------|------------------|--------|----------------|--------|------------------|
| Age | Number | Compensation | Number | Compensation | Number | Compensation |
| 48 | 775 | \$ 75,642,346 | 60 | \$ 5,676,339 | 835 | \$ 81,318,685 |
| 49 | 861 | 84,445,583 | 54 | 5,168,820 | 915 | 89,614,403 |
| 50 | 918 | 89,310,920 | 60 | 5,638,107 | 978 | 94,949,027 |
| 51 | 997 | 98,070,506 | 70 | 6,870,070 | 1,067 | 104,940,576 |
| 52 | 900 | 90,109,480 | 63 | 5,818,929 | 963 | 95,928,410 |
| 53 | 791 | 79,488,316 | 43 | 4,317,289 | 834 | 83,805,606 |
| 54 | 669 | 66,523,844 | 40 | 3,879,799 | 709 | 70,403,643 |
| 55 | 624 | 62,578,026 | 43 | 4,288,133 | 667 | 66,866,160 |
| 56 | 524 | 52,897,000 | 26 | 2,212,052 | 550 | 55,109,053 |
| 57 | 421 | 41,189,815 | 28 | 2,621,725 | 449 | 43,811,540 |
| 58 | 323 | 31,464,363 | 26 | 2,321,662 | 349 | 33,786,025 |
| 59 | 254 | 24,816,513 | 11 | 998,718 | 265 | 25,815,230 |
| 60 | 197 | 18,796,953 | 11 | 1,060,205 | 208 | 19,857,159 |
| 61 | 145 | 14,069,173 | 12 | 1,098,352 | 157 | 15,167,526 |
| 62 | 98 | 8,891,566 | 4 | 303,413 | 102 | 9,194,979 |
| 63 | 73 | 6,958,588 | 5 | 432,068 | 78 | 7,390,656 |
| 64 | 49 | 4,450,628 | 6 | 525,056 | 55 | 4,975,683 |
| 65 | 19 | 1,699,212 | - | - | 19 | 1,699,212 |
| 66 | 15 | 1,293,028 | 2 | 137,378 | 17 | 1,430,406 |
| 67 | 14 | 1,366,176 | - | - | 14 | 1,366,176 |
| 68 | 8 | 665,329 | - | - | 8 | 665,329 |
| 69 | 6 | 540,433 | - | - | 6 | 540,433 |
| 70 | 3 | 278,842 | - | - | 3 | 278,842 |
| 71 | 2 | 135,269 | - | - | 2 | 135,269 |
| 72 | 3 | 257,690 | - | - | 3 | 257,690 |
| 73 | 3 | 255,992 | - | - | 3 | 255,992 |
| 74 | 2 | 180,368 | - | - | 2 | 180,368 |
| 75 | 1 | 69,015 | - | - | 1 | 69,015 |
| 76 | - | - | - | - | - | - |
| 77 | 1 | 73,774 | - | - | 1 | 73,774 |
| 78 | 1 | 44,181 | _ | | 1 | 44,181 |
| Total | 27,123 | \$ 2,358,058,606 | 2,261 | \$ 178,744,214 | 29,384 | \$ 2,536,802,819 |



EXHIBIT I – 3b

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Years of Service TOTAL

| | Male | | F | emale | Total | |
|---------|--------|---------------|--------|---------------|--------|----------------|
| Service | Number | Compensation | Number | Compensation | Number | Compensation |
| 0 | 1,809 | \$ 97,765,990 | 317 | \$ 17,679,409 | 2,126 | \$ 115,445,400 |
| 1 | 1,110 | 66,805,429 | 178 | 10,491,119 | 1,288 | 77,296,548 |
| 2 | 1,407 | 93,904,635 | 201 | 13,391,845 | 1,608 | 107,296,480 |
| 3 | 1,364 | 98,024,203 | 178 | 12,621,566 | 1,542 | 110,645,769 |
| 4 | 1,235 | 95,923,320 | 99 | 7,324,193 | 1,334 | 103,247,512 |
| 5 | 1,112 | 89,593,605 | 105 | 8,586,425 | 1,217 | 98,180,030 |
| 6 | 1,030 | 85,223,004 | 82 | 6,436,784 | 1,112 | 91,659,787 |
| 7 | 991 | 83,645,829 | 66 | 5,333,708 | 1,057 | 88,979,537 |
| 8 | 948 | 80,088,969 | 50 | 4,091,305 | 998 | 84,180,275 |
| 9 | 797 | 69,112,570 | 44 | 3,736,445 | 841 | 72,849,015 |
| 10 | 704 | 62,615,477 | 31 | 2,848,258 | 735 | 65,463,734 |
| 11 | 597 | 55,560,006 | 27 | 2,396,187 | 624 | 57,956,193 |
| 12 | 432 | 38,284,785 | 22 | 1,897,318 | 454 | 40,182,103 |
| 13 | 690 | 61,660,924 | 38 | 3,442,518 | 728 | 65,103,442 |
| 14 | 777 | 70,114,992 | 65 | 5,945,105 | 842 | 76,060,097 |
| 15 | 685 | 65,412,769 | 64 | 5,623,176 | 749 | 71,035,945 |
| 16 | 509 | 47,873,769 | 39 | 3,568,250 | 548 | 51,442,019 |
| 17 | 553 | 52,958,154 | 46 | 4,148,073 | 599 | 57,106,228 |
| 18 | 672 | 62,980,703 | 37 | 3,239,689 | 709 | 66,220,392 |
| 19 | 666 | 63,659,236 | 47 | 4,511,850 | 713 | 68,171,085 |
| 20 | 749 | 72,359,910 | 59 | 5,569,763 | 808 | 77,929,673 |
| 21 | 813 | 79,530,748 | 47 | 4,362,513 | 860 | 83,893,261 |
| 22 | 850 | 83,954,820 | 60 | 5,949,870 | 910 | 89,904,690 |
| 23 | 898 | 90,578,901 | 60 | 5,878,616 | 958 | 96,457,517 |
| 24 | 864 | 87,919,281 | 48 | 4,784,158 | 912 | 92,703,440 |
| 25 | 800 | 81,925,340 | 43 | 4,425,007 | 843 | 86,350,347 |



EXHIBIT I – 3b

ACTIVE MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Salaries Distributed by Years of Service TOTAL (continued)

| | Male | | F | Female | | Total | |
|---------|--------|------------------|--------|----------------|--------|------------------|--|
| Service | Number | Compensation | Number | Compensation | Number | Compensation | |
| 26 | 728 | \$ 74,192,886 | 42 | \$ 3,994,171 | 770 | \$ 78,187,056 | |
| 27 | 643 | 66,978,471 | 32 | 3,220,662 | 675 | 70,199,132 | |
| 28 | 551 | 56,917,371 | 35 | 3,249,584 | 586 | 60,166,955 | |
| 29 | 537 | 53,946,043 | 29 | 2,922,372 | 566 | 56,868,415 | |
| 30 | 447 | 46,504,852 | 22 | 2,197,281 | 469 | 48,702,133 | |
| 31 | 403 | 41,671,539 | 23 | 2,428,899 | 426 | 44,100,438 | |
| 32 | 410 | 43,119,889 | 18 | 1,728,859 | 428 | 44,848,747 | |
| 33 | 174 | 19,236,290 | 4 | 401,305 | 178 | 19,637,596 | |
| 34 | 68 | 7,503,298 | 1 | 104,658 | 69 | 7,607,956 | |
| 35 | 47 | 4,792,301 | - | - | 47 | 4,792,301 | |
| 36 | 28 | 3,023,758 | 2 | 213,274 | 30 | 3,237,032 | |
| 37 | 6 | 732,022 | - | - | 6 | 732,022 | |
| 38 | 5 | 451,162 | - | - | 5 | 451,162 | |
| 39 | 4 | 551,034 | - | - | 4 | 551,034 | |
| 40 | 5 | 466,986 | - | - | 5 | 466,986 | |
| 41 | - | - | - | - | - | - | |
| 42 | 1 | 92,705 | - | - | 1 | 92,705 | |
| 43 | - | - | - | - | - | - | |
| 44 | 3 | 294,903 | - | - | 3 | 294,903 | |
| 45 | - | - | - | - | - | - | |
| 46 | - | - | - | - | - | - | |
| 47 | - | - | - | - | - | - | |
| 48 | - | - | - | - | - | - | |
| 49 | 1 | 105,729 | - | - | 1 | 105,729 | |
| 50 | - | - | - | - | - | - | |
| Total | 27,123 | \$ 2,358,058,606 | 2,261 | \$ 178,744,214 | 29,384 | \$ 2,536,802,819 | |



EXHIBIT II - 1a

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age POLICE SERVICE RETIREES

| | Male | | F | Female | | Total | |
|-----|--------|------------|--------|------------|--------|--------------|--|
| Age | Number | Annuities | Number | Annuities | Number | Annuities | |
| 48 | 17 | \$ 855,460 | 3 | \$ 161,965 | 20 | \$ 1,017,425 | |
| 49 | 52 | 2,579,419 | 5 | 263,891 | 57 | 2,843,310 | |
| 50 | 84 | 4,033,244 | 7 | 366,372 | 91 | 4,399,617 | |
| 51 | 92 | 4,489,428 | 10 | 527,390 | 102 | 5,016,818 | |
| 52 | 105 | 5,053,102 | 10 | 520,159 | 115 | 5,573,261 | |
| 53 | 135 | 5,919,644 | 19 | 919,446 | 154 | 6,839,090 | |
| 54 | 145 | 6,880,463 | 20 | 948,907 | 165 | 7,829,371 | |
| 55 | 202 | 9,543,044 | 20 | 952,770 | 222 | 10,495,814 | |
| 56 | 262 | 12,984,335 | 27 | 1,349,118 | 289 | 14,333,453 | |
| 57 | 301 | 15,012,122 | 28 | 1,391,525 | 329 | 16,403,647 | |
| 58 | 278 | 14,141,252 | 28 | 1,306,519 | 306 | 15,447,771 | |
| 59 | 293 | 15,648,500 | 25 | 1,259,411 | 318 | 16,907,911 | |
| 60 | 284 | 15,024,806 | 38 | 2,082,510 | 322 | 17,107,316 | |
| 61 | 250 | 13,989,758 | 24 | 1,295,237 | 274 | 15,284,996 | |
| 62 | 281 | 16,003,526 | 26 | 1,500,345 | 307 | 17,503,871 | |
| 63 | 285 | 16,195,444 | 39 | 2,176,077 | 324 | 18,371,522 | |
| 64 | 304 | 17,259,927 | 35 | 1,767,140 | 339 | 19,027,067 | |
| 65 | 353 | 19,811,963 | 39 | 2,099,462 | 392 | 21,911,424 | |
| 66 | 358 | 20,443,781 | 30 | 1,757,648 | 388 | 22,201,428 | |
| 67 | 362 | 20,735,015 | 37 | 2,055,994 | 399 | 22,791,009 | |
| 68 | 314 | 17,946,082 | 26 | 1,434,806 | 340 | 19,380,888 | |
| 69 | 322 | 18,227,883 | 26 | 1,478,004 | 348 | 19,705,888 | |
| 70 | 327 | 18,486,245 | 21 | 1,201,057 | 348 | 19,687,302 | |
| 71 | 327 | 18,075,874 | 16 | 878,295 | 343 | 18,954,170 | |
| 72 | 315 | 17,620,499 | 17 | 892,453 | 332 | 18,512,951 | |
| 73 | 340 | 19,498,258 | 12 | 672,894 | 352 | 20,171,152 | |
| 74 | 375 | 21,258,886 | 15 | 885,859 | 390 | 22,144,745 | |



EXHIBIT II - 1a

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age POLICE SERVICE RETIREES (continued)

| | | Male | F | emale | | Total |
|-------|--------|----------------|--------|---------------|--------|----------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 75 | 309 | \$ 16,426,134 | 4 | \$ 224,230 | 313 | \$ 16,650,364 |
| 76 | 226 | 11,923,605 | 10 | 519,392 | 236 | 12,442,997 |
| 77 | 215 | 11,349,371 | 8 | 452,650 | 223 | 11,802,020 |
| 78 | 212 | 10,830,390 | 2 | 72,753 | 214 | 10,903,143 |
| 79 | 209 | 10,201,270 | 3 | 128,990 | 212 | 10,330,260 |
| 80 | 204 | 9,703,145 | 3 | 158,935 | 207 | 9,862,080 |
| 81 | 143 | 6,266,586 | 3 | 116,047 | 146 | 6,382,633 |
| 82 | 120 | 5,193,337 | - | - | 120 | 5,193,337 |
| 83 | 111 | 4,639,914 | - | - | 111 | 4,639,914 |
| 84 | 90 | 3,783,989 | - | - | 90 | 3,783,989 |
| 85 | 64 | 2,753,560 | 2 | 67,603 | 66 | 2,821,163 |
| 86 | 67 | 2,653,970 | - | - | 67 | 2,653,970 |
| 87 | 50 | 1,849,172 | - | - | 50 | 1,849,172 |
| 88 | 52 | 1,948,852 | 2 | 41,343 | 54 | 1,990,195 |
| 89 | 38 | 1,291,980 | 3 | 81,424 | 41 | 1,373,404 |
| 90 | 26 | 838,335 | - | - | 26 | 838,335 |
| 91 | 19 | 710,653 | - | - | 19 | 710,653 |
| 92 | 16 | 528,083 | - | - | 16 | 528,083 |
| 93 | 19 | 594,754 | - | - | 19 | 594,754 |
| 94 | 8 | 231,192 | - | - | 8 | 231,192 |
| 95 | 10 | 265,909 | - | - | 10 | 265,909 |
| 96 | 7 | 200,481 | - | - | 7 | 200,481 |
| 97 | 6 | 154,580 | - | - | 6 | 154,580 |
| 98 | 1 | 23,402 | - | - | 1 | 23,402 |
| 99 | 5 | 116,384 | - | - | 5 | 116,384 |
| Total | 8,990 | \$ 472,197,008 | 643 | \$ 34,008,619 | 9,633 | \$ 506,205,627 |



EXHIBIT II – 1b

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age POLICE DISABILITY RETIREES

| |] | Male | F | 'e male | | Total |
|------------|--------|-----------|--------|-----------|--------|-----------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 32 & Under | 1 | \$ 35,247 | - | \$ - | 1 | \$ 35,247 |
| 33 | - | - | - | - | - | - |
| 34 | 1 | 17,833 | - | - | 1 | 17,833 |
| 35 | - | - | - | - | - | - |
| 36 | 3 | 113,202 | - | - | 3 | 113,202 |
| 37 | 3 | 90,905 | - | - | 3 | 90,905 |
| 38 | 2 | 38,650 | 2 | 79,643 | 4 | 118,293 |
| 39 | 5 | 153,011 | 3 | 101,134 | 8 | 254,144 |
| 40 | 4 | 150,469 | 1 | 35,029 | 5 | 185,499 |
| 41 | 7 | 230,741 | 2 | 38,272 | 9 | 269,013 |
| 42 | 12 | 328,891 | 3 | 60,554 | 15 | 389,444 |
| 43 | 12 | 403,392 | 2 | 65,294 | 14 | 468,686 |
| 44 | 15 | 597,640 | 4 | 162,565 | 19 | 760,205 |
| 45 | 16 | 526,721 | 4 | 142,885 | 20 | 669,606 |
| 46 | 25 | 976,634 | 12 | 457,017 | 37 | 1,433,650 |
| 47 | 32 | 1,175,993 | 5 | 181,055 | 37 | 1,357,047 |
| 48 | 30 | 1,184,726 | 13 | 458,905 | 43 | 1,643,631 |
| 49 | 47 | 1,846,902 | 12 | 382,759 | 59 | 2,229,660 |
| 50 | 57 | 2,392,373 | 11 | 445,536 | 68 | 2,837,909 |
| 51 | 64 | 2,654,993 | 20 | 815,251 | 84 | 3,470,244 |
| 52 | 58 | 2,201,483 | 16 | 599,061 | 74 | 2,800,545 |
| 53 | 81 | 3,533,121 | 20 | 778,365 | 101 | 4,311,487 |
| 54 | 89 | 3,730,051 | 12 | 415,841 | 101 | 4,145,891 |
| 55 | 78 | 3,283,642 | 16 | 613,732 | 94 | 3,897,374 |
| 56 | 82 | 3,738,874 | 21 | 853,852 | 103 | 4,592,726 |
| 57 | 84 | 3,602,716 | 25 | 967,753 | 109 | 4,570,469 |
| 58 | 64 | 2,857,196 | 19 | 874,816 | 83 | 3,732,012 |
| 59 | 58 | 2,772,894 | 18 | 742,970 | 76 | 3,515,864 |
| 60 | 75 | 3,396,012 | 15 | 617,448 | 90 | 4,013,460 |
| 61 | 71 | 3,410,684 | 10 | 486,274 | 81 | 3,896,958 |
| 62 | 64 | 3,110,354 | 12 | 553,595 | 76 | 3,663,948 |
| 63 | 77 | 3,697,631 | 18 | 875,253 | 95 | 4,572,884 |
| 64 | 102 | 5,133,554 | 27 | 1,270,381 | 129 | 6,403,934 |



EXHIBIT II – 1b

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age POLICE DISABILITY RETIREES (continued)

| | | Male | F | emale | , | Total |
|-------|--------|----------------|--------|---------------|--------|----------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 65 | 71 | \$ 3,335,584 | 27 | \$ 1,125,965 | 98 | \$ 4,461,549 |
| 66 | 75 | 3,442,088 | 23 | 1,033,433 | 98 | 4,475,521 |
| 67 | 106 | 5,121,639 | 16 | 624,170 | 122 | 5,745,809 |
| 68 | 89 | 4,351,135 | 24 | 1,090,710 | 113 | 5,441,845 |
| 69 | 95 | 4,386,474 | 18 | 848,702 | 113 | 5,235,176 |
| 70 | 106 | 4,678,568 | 10 | 483,746 | 116 | 5,162,314 |
| 71 | 93 | 4,091,306 | 15 | 662,968 | 108 | 4,754,275 |
| 72 | 93 | 4,021,327 | 17 | 731,903 | 110 | 4,753,230 |
| 73 | 96 | 4,369,754 | 11 | 516,093 | 107 | 4,885,847 |
| 74 | 129 | 5,690,628 | 8 | 291,101 | 137 | 5,981,729 |
| 75 | 100 | 4,256,682 | 10 | 396,510 | 110 | 4,653,193 |
| 76 | 76 | 3,370,831 | 2 | 72,674 | 78 | 3,443,505 |
| 77 | 58 | 2,386,131 | 4 | 166,961 | 62 | 2,553,092 |
| 78 | 82 | 3,302,322 | 1 | 37,602 | 83 | 3,339,924 |
| 79 | 57 | 2,050,747 | 3 | 91,864 | 60 | 2,142,611 |
| 80 | 45 | 1,756,533 | 1 | 43,711 | 46 | 1,800,245 |
| 81 | 37 | 1,458,865 | - | - | 37 | 1,458,865 |
| 82 | 39 | 1,390,020 | - | - | 39 | 1,390,020 |
| 83 | 34 | 1,107,912 | 2 | 113,336 | 36 | 1,221,247 |
| 84 | 25 | 937,473 | - | - | 25 | 937,473 |
| 85 | 17 | 570,380 | - | - | 17 | 570,380 |
| 86 | 22 | 656,280 | - | - | 22 | 656,280 |
| 87 | 12 | 394,517 | - | - | 12 | 394,517 |
| 88 | 3 | 68,073 | - | - | 3 | 68,073 |
| 89 | 4 | 104,070 | - | - | 4 | 104,070 |
| 90 | 8 | 209,522 | - | - | 8 | 209,522 |
| 91 | 9 | 263,774 | - | - | 9 | 263,774 |
| 92 | 2 | 46,062 | - | - | 2 | 46,062 |
| 93 | 3 | 88,986 | - | - | 3 | 88,986 |
| 94 | 1 | 27,808 | - | - | 1 | 27,808 |
| 95 | 3 | 58,232 | - | - | 3 | 58,232 |
| 96 | - | - | - | - | - | - |
| 97 | 1 | 23,686 | - | - | 1 | 23,686 |
| 98 | 1 | 20,722 | - | - | 1 | 20,722 |
| Total | 2,911 | \$ 125,424,664 | 515 | \$ 21,406,687 | 3,426 | \$ 146,831,352 |



EXHIBIT II – 1c

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age POLICE SURVIVORS AND BENEFICIARIES

| | | Male | | Fe male | | Total |
|------------|--------|------------------|--------|------------|--------|------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 15 & Under | 52 | \$ 154,573 | 41 | \$ 135,794 | 93 | \$ 290,367 |
| 16 | 9 | 26,762 | 8 | 23,789 | 17 | 50,551 |
| 17 | 9 | 26,762 | 8 | 23,789 | 17 | 50,551 |
| 18 | 13 | 38,657 | 10 | 29,736 | 23 | 68,393 |
| 19 | 8 | 42,443 | 13 | 38,657 | 21 | 81,100 |
| 20 | 16 | 94,423 | 10 | 29,736 | 26 | 124,159 |
| 21 | 11 | 32,656 | 13 | 38,657 | 24 | 71,312 |
| 22 | - | - | 1 | 2,812 | 1 | 2,812 |
| 23 | 3 | 22,870 | 1 | 8,467 | 4 | 31,337 |
| 24 | 1 | 22,493 | 1 | 14,328 | 2 | 36,821 |
| 25 | 5 | 13,626 | 1 | 2,596 | 6 | 16,222 |
| 26 | - | - | 2 | 5,407 | 2 | 5,407 |
| 27 | 1 | 2,664 | - | - | 1 | 2,664 |
| 28 | 3 | 8,071 | - | - | 3 | 8,071 |
| 29 | 1 | 2,866 | - | - | 1 | 2,866 |
| 30 | 1 | 2,974 | 2 | 21,806 | 3 | 24,780 |
| 31 | 4 | 10,490 | 1 | 10,903 | 5 | 21,394 |
| 32 | 3 | 7,517 | 2 | 5,947 | 5 | 13,464 |
| 33 | 1 | 2,326 | - | - | 1 | 2,326 |
| 34 | - | - | 2 | 13,877 | 2 | 13,877 |
| 35 | 4 | 75,917 | 3 | 32,710 | 7 | 108,626 |
| 36 | 1 | 2,974 | 4 | 24,300 | 5 | 27,273 |
| 37 | 3 | 7,873 | 4 | 70,337 | 7 | 78,210 |
| 38 | - | - | 1 | 10,903 | 1 | 10,903 |
| 39 | 1 | 2,974 | 3 | 32,710 | 4 | 35,683 |
| 40 | 1 | 14,540 | 3 | 32,710 | 4 | 47,250 |
| 41 | 3 | 35,095 | 4 | 27,754 | 7 | 62,849 |
| 42 | 2 | 5,947 | 1 | 10,903 | 3 | 16,850 |
| 43 | - | - | 3 | 32,710 | 3 | 32,710 |



EXHIBIT II - 1c

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age POLICE SURVIVORS AND BENEFICIARIES (continued)

| | Male | | F | 'e male | | Total | |
|-----|--------|-----------|--------|-----------|--------|-----------|--|
| Age | Number | Annuities | Number | Annuities | Number | Annuities | |
| 44 | 1 | \$ 2,974 | 7 | \$ 76,838 | 8 | \$ 79,812 | |
| 45 | 1 | 1,416 | 10 | 177,956 | 11 | 179,372 | |
| 46 | - | - | 9 | 108,099 | 9 | 108,099 | |
| 47 | 2 | 4,390 | 11 | 119,935 | 13 | 124,325 | |
| 48 | 3 | 5,806 | 14 | 192,559 | 17 | 198,365 | |
| 49 | 3 | 19,718 | 10 | 143,079 | 13 | 162,797 | |
| 50 | 2 | 33,531 | 18 | 255,332 | 20 | 288,862 | |
| 51 | 2 | 4,248 | 22 | 400,659 | 24 | 404,907 | |
| 52 | 5 | 44,418 | 26 | 381,699 | 31 | 426,117 | |
| 53 | 3 | 5,806 | 25 | 342,935 | 28 | 348,740 | |
| 54 | 5 | 59,121 | 38 | 611,853 | 43 | 670,974 | |
| 55 | 4 | 24,038 | 28 | 409,754 | 32 | 433,793 | |
| 56 | 1 | 2,974 | 36 | 568,927 | 37 | 571,901 | |
| 57 | - | - | 51 | 705,960 | 51 | 705,960 | |
| 58 | 3 | 24,780 | 35 | 502,799 | 38 | 527,579 | |
| 59 | 2 | 13,877 | 59 | 793,607 | 61 | 807,484 | |
| 60 | 3 | 23,835 | 49 | 683,954 | 52 | 707,789 | |
| 61 | 5 | 90,133 | 49 | 655,386 | 54 | 745,519 | |
| 62 | 3 | 54,382 | 52 | 719,322 | 55 | 773,704 | |
| 63 | 3 | 24,780 | 80 | 1,233,990 | 83 | 1,258,770 | |
| 64 | 4 | 53,516 | 87 | 1,281,746 | 91 | 1,335,262 | |
| 65 | 4 | 49,769 | 70 | 924,871 | 74 | 974,640 | |
| 66 | 1 | 10,903 | 92 | 1,138,993 | 93 | 1,149,897 | |
| 67 | - | - | 88 | 1,135,055 | 88 | 1,135,055 | |
| 68 | 2 | 21,806 | 129 | 1,748,015 | 131 | 1,769,821 | |
| 69 | - | - | 142 | 1,869,170 | 142 | 1,869,170 | |
| 70 | 1 | 10,903 | 131 | 1,756,485 | 132 | 1,767,388 | |
| 71 | 4 | 67,707 | 128 | 1,538,140 | 132 | 1,605,847 | |
| 72 | 2 | 21,806 | 176 | 2,400,233 | 178 | 2,422,040 | |



EXHIBIT II - 1c

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age POLICE SURVIVORS AND BENEFICIARIES (continued)

| | N | I ale | | Female | | Total |
|-------|--------|--------------|--------|---------------|--------|---------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 73 | - 9 | 5 - | 172 | \$ 2,292,223 | 172 | \$ 2,292,223 |
| 74 | 1 | 10,903 | 181 | 2,172,554 | 182 | 2,183,458 |
| 75 | 1 | 10,903 | 134 | 1,578,656 | 135 | 1,589,559 |
| 76 | 1 | 32,966 | 90 | 1,069,169 | 91 | 1,102,135 |
| 77 | 1 | 10,903 | 138 | 1,695,575 | 139 | 1,706,478 |
| 78 | 1 | 10,903 | 168 | 2,070,664 | 169 | 2,081,568 |
| 79 | 3 | 32,710 | 169 | 1,927,406 | 172 | 1,960,115 |
| 80 | - | - | 158 | 1,897,076 | 158 | 1,897,076 |
| 81 | 2 | 13,877 | 136 | 1,552,650 | 138 | 1,566,527 |
| 82 | 1 | 27,417 | 117 | 1,363,479 | 118 | 1,390,897 |
| 83 | - | - | 134 | 1,500,972 | 134 | 1,500,972 |
| 84 | 1 | 10,903 | 125 | 1,405,506 | 126 | 1,416,409 |
| 85 | - | - | 110 | 1,201,477 | 110 | 1,201,477 |
| 86 | - | - | 128 | 1,422,860 | 128 | 1,422,860 |
| 87 | 1 | 10,903 | 70 | 755,688 | 71 | 766,591 |
| 88 | - | - | 82 | 890,322 | 82 | 890,322 |
| 89 | - | - | 67 | 755,634 | 67 | 755,634 |
| 90 | 1 | 10,903 | 72 | 822,423 | 73 | 833,326 |
| 91 | - | - | 77 | 832,800 | 77 | 832,800 |
| 92 | 1 | 10,903 | 54 | 610,141 | 55 | 621,045 |
| 93 | - | - | 49 | 514,185 | 49 | 514,185 |
| 94 | - | - | 45 | 481,306 | 45 | 481,306 |
| 95 | - | - | 34 | 357,156 | 34 | 357,156 |
| 96 | - | - | 12 | 110,453 | 12 | 110,453 |
| 97 | - | - | 13 | 147,939 | 13 | 147,939 |
| 98 | - | - | 12 | 122,095 | 12 | 122,095 |
| 99 | - | - | - | - | - | - |
| 100 | - | - | 4 | 43,217 | 4 | 43,217 |
| 101 | - | - | 5 | 47,328 | 5 | 47,328 |
| Total | 240 | \$ 1,528,324 | 4,370 | \$ 53,199,641 | 4,610 | \$ 54,727,965 |



EXHIBIT II – 2a

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age FIREFIGHTERS' SERVICE RETIREES

| | N | Male | F | emale | Total | | |
|-----|--------|------------|--------|-----------|--------|------------|--|
| Age | Number | Annuities | Number | Annuities | Number | Annuities | |
| 46 | - | \$ - | - | \$ - | - | \$ - | |
| 47 | - | - | - | - | - | - | |
| 48 | 6 | 263,412 | - | - | 6 | 263,412 | |
| 49 | 18 | 828,510 | - | - | 18 | 828,510 | |
| 50 | 37 | 1,835,439 | 1 | 26,803 | 38 | 1,862,242 | |
| 51 | 37 | 1,652,071 | 1 | 45,353 | 38 | 1,697,424 | |
| 52 | 46 | 2,228,440 | - | - | 46 | 2,228,440 | |
| 53 | 47 | 2,196,810 | 3 | 156,873 | 50 | 2,353,683 | |
| 54 | 87 | 4,029,930 | 2 | 130,998 | 89 | 4,160,928 | |
| 55 | 102 | 5,043,451 | 3 | 160,774 | 105 | 5,204,225 | |
| 56 | 163 | 8,082,119 | 3 | 158,933 | 166 | 8,241,052 | |
| 57 | 232 | 11,998,565 | 9 | 446,811 | 241 | 12,445,375 | |
| 58 | 222 | 11,494,154 | 9 | 482,386 | 231 | 11,976,541 | |
| 59 | 259 | 14,071,352 | 6 | 292,464 | 265 | 14,363,816 | |
| 60 | 293 | 16,140,016 | 10 | 503,254 | 303 | 16,643,271 | |
| 61 | 300 | 16,821,498 | 7 | 348,795 | 307 | 17,170,293 | |
| 62 | 304 | 17,061,228 | 7 | 411,594 | 311 | 17,472,821 | |
| 63 | 320 | 18,524,979 | 6 | 349,248 | 326 | 18,874,227 | |
| 64 | 318 | 18,453,042 | 4 | 214,724 | 322 | 18,667,765 | |
| 65 | 315 | 18,298,217 | 3 | 179,528 | 318 | 18,477,744 | |
| 66 | 324 | 18,586,060 | 6 | 308,016 | 330 | 18,894,076 | |
| 67 | 305 | 17,620,461 | 2 | 115,044 | 307 | 17,735,505 | |
| 68 | 290 | 16,538,929 | 5 | 269,077 | 295 | 16,808,006 | |
| 69 | 262 | 14,949,818 | 2 | 94,438 | 264 | 15,044,256 | |
| 70 | 273 | 15,869,544 | 1 | 30,415 | 274 | 15,899,959 | |
| 71 | 252 | 14,156,925 | 2 | 95,173 | 254 | 14,252,098 | |
| 72 | 220 | 12,264,218 | 1 | 55,764 | 221 | 12,319,981 | |
| 73 | 213 | 11,888,474 | 1 | 44,399 | 214 | 11,932,873 | |



EXHIBIT II – 2a

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age FIREFIGHTERS' SERVICE RETIREES (continued)

| | | Male | Female | | Total | |
|-------|--------|----------------|--------|--------------|--------|----------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 74 | 254 | \$ 13,332,439 | - | \$ - | 254 | \$ 13,332,439 |
| 75 | 219 | 11,649,210 | - | - | 219 | 11,649,210 |
| 76 | 135 | 7,164,536 | 2 | 94,573 | 137 | 7,259,109 |
| 77 | 165 | 8,426,361 | - | - | 165 | 8,426,361 |
| 78 | 164 | 8,120,674 | - | - | 164 | 8,120,674 |
| 79 | 173 | 8,634,407 | - | - | 173 | 8,634,407 |
| 80 | 132 | 6,615,434 | - | - | 132 | 6,615,434 |
| 81 | 124 | 5,997,982 | - | - | 124 | 5,997,982 |
| 82 | 99 | 4,613,561 | - | - | 99 | 4,613,561 |
| 83 | 90 | 4,032,886 | - | - | 90 | 4,032,886 |
| 84 | 77 | 3,824,390 | - | - | 77 | 3,824,390 |
| 85 | 72 | 2,902,739 | - | - | 72 | 2,902,739 |
| 86 | 72 | 2,958,626 | - | - | 72 | 2,958,626 |
| 87 | 54 | 2,146,275 | - | - | 54 | 2,146,275 |
| 88 | 42 | 1,476,632 | - | - | 42 | 1,476,632 |
| 89 | 36 | 1,091,033 | - | - | 36 | 1,091,033 |
| 90 | 46 | 1,596,387 | - | - | 46 | 1,596,387 |
| 91 | 34 | 1,185,055 | - | - | 34 | 1,185,055 |
| 92 | 26 | 819,294 | - | - | 26 | 819,294 |
| 93 | 22 | 647,076 | - | - | 22 | 647,076 |
| 94 | 14 | 414,912 | - | - | 14 | 414,912 |
| 95 | 11 | 338,910 | - | - | 11 | 338,910 |
| 96 | 3 | 84,134 | - | - | 3 | 84,134 |
| 97 | 3 | 76,681 | - | - | 3 | 76,681 |
| 98 | 2 | 53,713 | - | - | 2 | 53,713 |
| 99 | - | - | - | - | - | - |
| Total | 7,314 | \$ 389,101,005 | 96 | \$ 5,015,438 | 7,410 | \$ 394,116,444 |



EXHIBIT II – 2b

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age FIREFIGHTERS' DISABILITY RETIREES

| | Male | | F | emale | | Total |
|------------|--------|-----------|--------|-----------|--------|-----------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 32 & Under | 1 | \$ 37,454 | - | \$ - | 1 | \$ 37,454 |
| 33 | - | - | - | - | - | - |
| 34 | 1 | 45,521 | - | - | 1 | 45,521 |
| 35 | 1 | 37,025 | - | - | 1 | 37,025 |
| 36 | 3 | 70,282 | - | - | 3 | 70,282 |
| 37 | 3 | 124,226 | - | - | 3 | 124,226 |
| 38 | 1 | 29,886 | - | - | 1 | 29,886 |
| 39 | 3 | 82,457 | - | - | 3 | 82,457 |
| 40 | 5 | 183,910 | 3 | 67,342 | 8 | 251,252 |
| 41 | 3 | 88,956 | 1 | 43,398 | 4 | 132,353 |
| 42 | 3 | 113,781 | 2 | 41,010 | 5 | 154,790 |
| 43 | 9 | 236,891 | - | - | 9 | 236,891 |
| 44 | 12 | 497,575 | 1 | 34,640 | 13 | 532,215 |
| 45 | 5 | 156,629 | 2 | 40,703 | 7 | 197,331 |
| 46 | 10 | 389,199 | - | - | 10 | 389,199 |
| 47 | 24 | 970,759 | 3 | 136,423 | 27 | 1,107,183 |
| 48 | 20 | 821,906 | - | - | 20 | 821,906 |
| 49 | 24 | 1,001,847 | 2 | 60,313 | 26 | 1,062,160 |
| 50 | 39 | 1,685,123 | 3 | 68,053 | 42 | 1,753,176 |
| 51 | 43 | 1,841,090 | 2 | 110,464 | 45 | 1,951,554 |
| 52 | 31 | 1,490,488 | 7 | 249,447 | 38 | 1,739,935 |
| 53 | 36 | 1,457,459 | 3 | 170,053 | 39 | 1,627,512 |
| 54 | 53 | 2,192,505 | 5 | 212,025 | 58 | 2,404,530 |
| 55 | 41 | 1,997,248 | 4 | 126,605 | 45 | 2,123,853 |
| 56 | 50 | 2,070,330 | 6 | 273,600 | 56 | 2,343,930 |
| 57 | 67 | 3,248,033 | 9 | 351,292 | 76 | 3,599,324 |
| 58 | 48 | 2,143,273 | 3 | 133,374 | 51 | 2,276,647 |
| 59 | 55 | 2,592,450 | 7 | 261,706 | 62 | 2,854,156 |
| 60 | 63 | 2,803,970 | 4 | 170,081 | 67 | 2,974,051 |
| 61 | 61 | 3,118,336 | 5 | 212,528 | 66 | 3,330,864 |
| 62 | 61 | 3,090,032 | 2 | 125,500 | 63 | 3,215,533 |
| 63 | 68 | 3,423,053 | 7 | 261,963 | 75 | 3,685,016 |
| 64 | 69 | 3,448,909 | 11 | 419,302 | 80 | 3,868,211 |



EXHIBIT II – 2b

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age FIREFIGHTERS' DISABILITY RETIREES (continued)

| | | Male | F | emale | | Total |
|-------|--------|----------------|--------|--------------|--------|----------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 65 | 85 | \$ 4,188,474 | 3 | \$ 108,416 | 88 | \$ 4,296,889 |
| 66 | 73 | 3,765,405 | 3 | 139,687 | 76 | 3,905,092 |
| 67 | 70 | 3,521,445 | 5 | 228,877 | 75 | 3,750,322 |
| 68 | 86 | 4,489,787 | 3 | 151,954 | 89 | 4,641,741 |
| 69 | 88 | 4,073,182 | 4 | 127,539 | 92 | 4,200,722 |
| 70 | 77 | 3,828,078 | 1 | 60,369 | 78 | 3,888,447 |
| 71 | 77 | 3,758,106 | 2 | 63,374 | 79 | 3,821,480 |
| 72 | 90 | 4,437,879 | 2 | 95,286 | 92 | 4,533,165 |
| 73 | 76 | 3,550,292 | 2 | 74,259 | 78 | 3,624,551 |
| 74 | 93 | 4,692,087 | - | - | 93 | 4,692,087 |
| 75 | 71 | 3,268,233 | - | - | 71 | 3,268,233 |
| 76 | 52 | 2,272,083 | - | - | 52 | 2,272,083 |
| 77 | 53 | 2,328,204 | - | - | 53 | 2,328,204 |
| 78 | 60 | 2,527,307 | - | - | 60 | 2,527,307 |
| 79 | 51 | 2,259,042 | - | - | 51 | 2,259,042 |
| 80 | 51 | 2,101,028 | - | - | 51 | 2,101,028 |
| 81 | 41 | 1,778,981 | - | - | 41 | 1,778,981 |
| 82 | 39 | 1,728,383 | - | - | 39 | 1,728,383 |
| 83 | 32 | 1,218,575 | - | - | 32 | 1,218,575 |
| 84 | 22 | 783,903 | - | - | 22 | 783,903 |
| 85 | 20 | 716,929 | - | - | 20 | 716,929 |
| 86 | 13 | 423,157 | - | - | 13 | 423,157 |
| 87 | 14 | 491,371 | - | - | 14 | 491,371 |
| 88 | 10 | 321,243 | - | - | 10 | 321,243 |
| 89 | 6 | 223,637 | - | - | 6 | 223,637 |
| 90 | 6 | 153,769 | - | - | 6 | 153,769 |
| 91 | 6 | 197,468 | - | - | 6 | 197,468 |
| 92 | 3 | 81,130 | - | - | 3 | 81,130 |
| 93 | 5 | 160,004 | - | - | 5 | 160,004 |
| 94 | 2 | 58,761 | - | - | 2 | 58,761 |
| 95 | 2 | 57,061 | - | - | 2 | 57,061 |
| 96 | 2 | 57,262 | - | - | 2 | 57,262 |
| Total | 2,289 | \$ 105,002,870 | 117 | \$ 4,619,581 | 2,406 | \$ 109,622,451 |



EXHIBIT II – 2c

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age FIREFIGHTERS' SURVIVORS AND BENEFICIARIES

| | Male | | \mathbf{F} | e male | Total | |
|------------|--------|-----------|--------------|-----------|--------|------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 15 & Under | 33 | \$ 98,129 | 29 | \$ 86,234 | 62 | \$ 184,363 |
| 16 | 8 | 23,789 | 5 | 14,868 | 13 | 38,657 |
| 17 | 8 | 59,806 | 3 | 8,921 | 11 | 68,726 |
| 18 | 10 | 29,736 | 11 | 145,234 | 21 | 174,970 |
| 19 | 16 | 60,479 | 11 | 32,710 | 27 | 93,189 |
| 20 | 5 | 14,868 | 10 | 106,243 | 15 | 121,111 |
| 21 | 5 | 14,868 | 9 | 26,762 | 14 | 41,630 |
| 22 | - | - | - | - | - | - |
| 23 | 1 | 2,974 | 1 | 8,759 | 2 | 11,732 |
| 24 | - | - | - | - | - | - |
| 25 | 1 | 2,812 | 1 | 2,596 | 2 | 5,407 |
| 26 | 1 | 2,974 | - | - | 1 | 2,974 |
| 27 | - | - | - | - | - | - |
| 28 | 1 | 2,488 | 1 | 2,650 | 2 | 5,137 |
| 29 | - | - | 2 | 30,249 | 2 | 30,249 |
| 30 | - | - | 1 | 10,903 | 1 | 10,903 |
| 31 | - | - | 2 | 22,771 | 2 | 22,771 |
| 32 | - | - | 2 | 13,877 | 2 | 13,877 |
| 33 | - | - | 2 | 21,806 | 2 | 21,806 |
| 34 | 1 | 2,974 | 1 | 10,903 | 2 | 13,877 |
| 35 | - | - | 3 | 32,710 | 3 | 32,710 |
| 36 | - | - | 2 | 12,905 | 2 | 12,905 |
| 37 | - | - | 5 | 47,331 | 5 | 47,331 |
| 38 | 2 | 9,684 | 4 | 27,754 | 6 | 37,438 |
| 39 | 1 | 2,974 | 4 | 48,898 | 5 | 51,872 |
| 40 | - | - | 3 | 32,710 | 3 | 32,710 |
| 41 | 1 | 1,894 | 2 | 21,806 | 3 | 23,700 |
| 42 | 1 | 1,800 | 1 | 10,903 | 2 | 12,703 |
| 43 | 1 | 2,974 | 4 | 66,710 | 5 | 69,683 |



EXHIBIT II - 2c

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age FIREFIGHTERS' SURVIVORS AND BENEFICIARIES (continued)

| | N | Tale | F | 'e male | | Total | |
|-----|--------|-------------|--------|-----------|--------|-----------|--|
| Age | Number | Annuities | Number | Annuities | Number | Annuities | |
| 44 | 1 | \$ 1,416 | 4 | \$ 43,613 | 5 | \$ 45,029 | |
| 45 | 1 | 2,974 | 2 | 21,806 | 3 | 24,780 | |
| 46 | 1 | 1,416 | 7 | 97,875 | 8 | 99,291 | |
| 47 | - | - | 2 | 21,806 | 2 | 21,806 | |
| 48 | - | - | 9 | 240,796 | 9 | 240,796 | |
| 49 | 2 | 7,080 | 18 | 296,484 | 20 | 303,564 | |
| 50 | 4 | 7,222 | 11 | 201,382 | 15 | 208,603 | |
| 51 | 1 | 2,974 | 12 | 236,652 | 13 | 239,626 | |
| 52 | 1 | 2,974 | 13 | 203,415 | 14 | 206,388 | |
| 53 | 4 | 25,896 | 15 | 194,623 | 19 | 220,519 | |
| 54 | 3 | 7,363 | 18 | 410,785 | 21 | 418,149 | |
| 55 | 1 | 2,974 | 22 | 277,138 | 23 | 280,111 | |
| 56 | - | - | 26 | 351,591 | 26 | 351,591 | |
| 57 | - | - | 30 | 492,863 | 30 | 492,863 | |
| 58 | 1 | 2,974 | 30 | 502,481 | 31 | 505,454 | |
| 59 | 2 | 13,877 | 34 | 526,919 | 36 | 540,796 | |
| 60 | 1 | 2,974 | 23 | 318,806 | 24 | 321,779 | |
| 61 | 1 | 2,920 | 31 | 414,401 | 32 | 417,321 | |
| 62 | 4 | 54,900 | 37 | 550,586 | 41 | 605,486 | |
| 63 | - | - | 43 | 665,129 | 43 | 665,129 | |
| 64 | - | - | 57 | 838,765 | 57 | 838,765 | |
| 65 | 1 | 2,974 | 45 | 629,201 | 46 | 632,174 | |
| 66 | 1 | 2,974 | 53 | 808,356 | 54 | 811,330 | |
| 67 | - | - | 53 | 661,331 | 53 | 661,331 | |
| 68 | - | - | 48 | 584,455 | 48 | 584,455 | |
| 69 | - | - | 70 | 986,386 | 70 | 986,386 | |
| 70 | - | - | 76 | 1,094,136 | 76 | 1,094,136 | |
| 71 | - | - | 66 | 809,012 | 66 | 809,012 | |



EXHIBIT II – 2c

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age FIREFIGHTERS' SURVIVORS AND BENEFICIARIES (continued)

| | Male | | F | 'ema | ıle | | Total | | |
|-------|--------|------------|--------|------|------------|--------|---------------|--|--|
| Age | Number | Annuities | Number | | Annuities | Number | Annuities | | |
| 72 | - | \$ - | 82 | \$ | 1,068,824 | 82 | \$ 1,068,824 | | |
| 73 | - | - | 91 | | 1,164,687 | 91 | 1,164,687 | | |
| 74 | 1 | 2,974 | 107 | | 1,341,868 | 108 | 1,344,842 | | |
| 75 | 1 | 10,903 | 103 | | 1,333,998 | 104 | 1,344,902 | | |
| 76 | 2 | 21,806 | 77 | | 942,406 | 79 | 964,213 | | |
| 77 | - | - | 85 | | 1,033,852 | 85 | 1,033,852 | | |
| 78 | - | - | 100 | | 1,194,455 | 100 | 1,194,455 | | |
| 79 | - | - | 111 | | 1,302,204 | 111 | 1,302,204 | | |
| 80 | - | - | 118 | | 1,347,832 | 118 | 1,347,832 | | |
| 81 | - | - | 122 | | 1,420,237 | 122 | 1,420,237 | | |
| 82 | - | - | 124 | | 1,411,021 | 124 | 1,411,021 | | |
| 83 | - | - | 83 | | 914,230 | 83 | 914,230 | | |
| 84 | - | - | 106 | | 1,199,919 | 106 | 1,199,919 | | |
| 85 | - | - | 88 | | 980,006 | 88 | 980,006 | | |
| 86 | - | - | 100 | | 1,080,327 | 100 | 1,080,327 | | |
| 87 | - | - | 95 | | 1,068,084 | 95 | 1,068,084 | | |
| 88 | - | - | 98 | | 1,074,325 | 98 | 1,074,325 | | |
| 89 | - | - | 78 | | 852,566 | 78 | 852,566 | | |
| 90 | - | - | 61 | | 633,683 | 61 | 633,683 | | |
| 91 | - | - | 99 | | 1,082,749 | 99 | 1,082,749 | | |
| 92 | - | - | 49 | | 552,832 | 49 | 552,832 | | |
| 93 | - | - | 63 | | 881,095 | 63 | 881,095 | | |
| 94 | - | - | 52 | | 565,080 | 52 | 565,080 | | |
| 95 | - | - | 40 | | 404,013 | 40 | 404,013 | | |
| 96 | - | - | 31 | | 318,399 | 31 | 318,399 | | |
| 97 | - | - | 16 | | 176,964 | 16 | 176,964 | | |
| 98 | - | - | 10 | | 96,603 | 10 | 96,603 | | |
| 99 | - | - | 8 | | 99,907 | 8 | 99,907 | | |
| 100 | - | - | 7 | | 63,766 | 7 | 63,766 | | |
| 101 | - | - | 2 | | 21,806 | 2 | 21,806 | | |
| 102 | - | - | 3 | | 32,710 | 3 | 32,710 | | |
| 103 | | | 1 | | 10,903 | 1 | 10,903 | | |
| Total | 130 | \$ 516,781 | 3,184 | \$ | 38,999,359 | 3,314 | \$ 39,516,140 | | |



EXHIBIT III – 1a

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age TOTAL SERVICE RETIREES

| |] | Male | F | 'emale | | Total | |
|-----|--------|------------|--------|-----------|--------|------------|--|
| Age | Number | Annuities | Number | Annuities | Number | Annuities | |
| 46 | - | \$ - | - | \$ - | - | \$ - | |
| 47 | - | - | - | - | - | - | |
| 48 | 23 | 1,118,872 | 3 | 161,965 | 26 | 1,280,837 | |
| 49 | 70 | 3,407,929 | 5 | 263,891 | 75 | 3,671,820 | |
| 50 | 121 | 5,868,683 | 8 | 393,176 | 129 | 6,261,859 | |
| 51 | 129 | 6,141,499 | 11 | 572,743 | 140 | 6,714,242 | |
| 52 | 151 | 7,281,542 | 10 | 520,159 | 161 | 7,801,700 | |
| 53 | 182 | 8,116,454 | 22 | 1,076,319 | 204 | 9,192,773 | |
| 54 | 232 | 10,910,393 | 22 | 1,079,906 | 254 | 11,990,299 | |
| 55 | 304 | 14,586,495 | 23 | 1,113,545 | 327 | 15,700,040 | |
| 56 | 425 | 21,066,454 | 30 | 1,508,050 | 455 | 22,574,505 | |
| 57 | 533 | 27,010,687 | 37 | 1,838,335 | 570 | 28,849,022 | |
| 58 | 500 | 25,635,406 | 37 | 1,788,905 | 537 | 27,424,311 | |
| 59 | 552 | 29,719,852 | 31 | 1,551,875 | 583 | 31,271,727 | |
| 60 | 577 | 31,164,823 | 48 | 2,585,764 | 625 | 33,750,587 | |
| 61 | 550 | 30,811,257 | 31 | 1,644,032 | 581 | 32,455,289 | |
| 62 | 585 | 33,064,754 | 33 | 1,911,939 | 618 | 34,976,692 | |
| 63 | 605 | 34,720,423 | 45 | 2,525,326 | 650 | 37,245,749 | |
| 64 | 622 | 35,712,968 | 39 | 1,981,864 | 661 | 37,694,832 | |
| 65 | 668 | 38,110,179 | 42 | 2,278,990 | 710 | 40,389,169 | |
| 66 | 682 | 39,029,840 | 36 | 2,065,664 | 718 | 41,095,504 | |
| 67 | 667 | 38,355,476 | 39 | 2,171,038 | 706 | 40,526,513 | |
| 68 | 604 | 34,485,011 | 31 | 1,703,883 | 635 | 36,188,895 | |
| 69 | 584 | 33,177,701 | 28 | 1,572,442 | 612 | 34,750,143 | |
| 70 | 600 | 34,355,790 | 22 | 1,231,472 | 622 | 35,587,261 | |
| 71 | 579 | 32,232,799 | 18 | 973,469 | 597 | 33,206,268 | |
| 72 | 535 | 29,884,716 | 18 | 948,216 | 553 | 30,832,932 | |
| 73 | 553 | 31,386,732 | 13 | 717,293 | 566 | 32,104,025 | |



EXHIBIT III – 1a

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age TOTAL SERVICE RETIREES (continued)

| | | Male | F | 'emale | ŗ | Fotal |
|-------|--------|----------------|--------|---------------|--------|----------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 74 | 629 | \$ 34,591,325 | 15 | \$ 885,859 | 644 | \$ 35,477,183 |
| 75 | 528 | 28,075,344 | 4 | 224,230 | 532 | 28,299,574 |
| 76 | 361 | 19,088,141 | 12 | 613,965 | 373 | 19,702,106 |
| 77 | 380 | 19,775,731 | 8 | 452,650 | 388 | 20,228,381 |
| 78 | 376 | 18,951,064 | 2 | 72,753 | 378 | 19,023,816 |
| 79 | 382 | 18,835,677 | 3 | 128,990 | 385 | 18,964,666 |
| 80 | 336 | 16,318,578 | 3 | 158,935 | 339 | 16,477,514 |
| 81 | 267 | 12,264,568 | 3 | 116,047 | 270 | 12,380,615 |
| 82 | 219 | 9,806,897 | - | - | 219 | 9,806,897 |
| 83 | 201 | 8,672,800 | - | - | 201 | 8,672,800 |
| 84 | 167 | 7,608,379 | - | - | 167 | 7,608,379 |
| 85 | 136 | 5,656,299 | 2 | 67,603 | 138 | 5,723,902 |
| 86 | 139 | 5,612,596 | - | - | 139 | 5,612,596 |
| 87 | 104 | 3,995,448 | - | - | 104 | 3,995,448 |
| 88 | 94 | 3,425,485 | 2 | 41,343 | 96 | 3,466,827 |
| 89 | 74 | 2,383,014 | 3 | 81,424 | 77 | 2,464,437 |
| 90 | 72 | 2,434,722 | - | - | 72 | 2,434,722 |
| 91 | 53 | 1,895,708 | - | - | 53 | 1,895,708 |
| 92 | 42 | 1,347,377 | - | - | 42 | 1,347,377 |
| 93 | 41 | 1,241,830 | - | - | 41 | 1,241,830 |
| 94 | 22 | 646,104 | - | - | 22 | 646,104 |
| 95 | 21 | 604,819 | - | - | 21 | 604,819 |
| 96 | 10 | 284,615 | - | - | 10 | 284,615 |
| 97 | 9 | 231,262 | - | - | 9 | 231,262 |
| 98 | 3 | 77,115 | - | - | 3 | 77,115 |
| 99 | 5 | 116,384 | - | | 5 | 116,384 |
| Total | 16,304 | \$ 861,298,013 | 739 | \$ 39,024,057 | 17,043 | \$ 900,322,070 |



EXHIBIT III – 1b

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age TOTAL DISABILITY RETIREES

| | Male | | Female | | Total | |
|------------|--------|-----------|--------|-----------|--------|------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 32 & Under | 2 | \$ 72,701 | - | \$ - | 2 | \$ 72,701 |
| 33 | - | - | - | - | - | - |
| 34 | 2 | 63,353 | - | - | 2 | 63,353 |
| 35 | 1 | 37,025 | - | - | 1 | 37,025 |
| 36 | 6 | 183,483 | - | - | 6 | 183,483 |
| 37 | 6 | 215,131 | - | - | 6 | 215,131 |
| 38 | 3 | 68,536 | 2 | 79,643 | 5 | 148,179 |
| 39 | 8 | 235,468 | 3 | 101,134 | 11 | 336,602 |
| 40 | 9 | 334,380 | 4 | 102,371 | 13 | 436,751 |
| 41 | 10 | 319,697 | 3 | 81,669 | 13 | 401,366 |
| 42 | 15 | 442,671 | 5 | 101,563 | 20 | 544,235 |
| 43 | 21 | 640,284 | 2 | 65,294 | 23 | 705,577 |
| 44 | 27 | 1,095,216 | 5 | 197,205 | 32 | 1,292,420 |
| 45 | 21 | 683,350 | 6 | 183,587 | 27 | 866,937 |
| 46 | 35 | 1,365,833 | 12 | 457,017 | 47 | 1,822,850 |
| 47 | 56 | 2,146,752 | 8 | 317,478 | 64 | 2,464,230 |
| 48 | 50 | 2,006,632 | 13 | 458,905 | 63 | 2,465,537 |
| 49 | 71 | 2,848,749 | 14 | 443,071 | 85 | 3,291,820 |
| 50 | 96 | 4,077,495 | 14 | 513,589 | 110 | 4,591,084 |
| 51 | 107 | 4,496,083 | 22 | 925,715 | 129 | 5,421,798 |
| 52 | 89 | 3,691,972 | 23 | 848,508 | 112 | 4,540,479 |
| 53 | 117 | 4,990,580 | 23 | 948,419 | 140 | 5,938,999 |
| 54 | 142 | 5,922,556 | 17 | 627,865 | 159 | 6,550,421 |
| 55 | 119 | 5,280,890 | 20 | 740,337 | 139 | 6,021,227 |
| 56 | 132 | 5,809,204 | 27 | 1,127,452 | 159 | 6,936,656 |
| 57 | 151 | 6,850,749 | 34 | 1,319,045 | 185 | 8,169,794 |
| 58 | 112 | 5,000,469 | 22 | 1,008,190 | 134 | 6,008,659 |
| 59 | 113 | 5,365,344 | 25 | 1,004,676 | 138 | 6,370,020 |
| 60 | 138 | 6,199,982 | 19 | 787,529 | 157 | 6,987,511 |
| 61 | 132 | 6,529,020 | 15 | 698,802 | 147 | 7,227,822 |
| 62 | 125 | 6,200,386 | 14 | 679,095 | 139 | 6,879,481 |
| 63 | 145 | 7,120,684 | 25 | 1,137,215 | 170 | 8,257,900 |
| 64 | 171 | 8,582,463 | 38 | 1,689,683 | 209 | 10,272,145 |



EXHIBIT III – 1b

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age TOTAL DISABILITY RETIREES (continued)

| Male | | Female | | Total | | |
|-------|--------|----------------|--------|---------------|--------|----------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 65 | 156 | \$ 7,524,057 | 30 | \$ 1,234,381 | 186 | \$ 8,758,438 |
| 66 | 148 | 7,207,493 | 26 | 1,173,120 | 174 | 8,380,613 |
| 67 | 176 | 8,643,084 | 21 | 853,047 | 197 | 9,496,131 |
| 68 | 175 | 8,840,922 | 27 | 1,242,664 | 202 | 10,083,587 |
| 69 | 183 | 8,459,656 | 22 | 976,242 | 205 | 9,435,898 |
| 70 | 183 | 8,506,647 | 11 | 544,115 | 194 | 9,050,761 |
| 71 | 170 | 7,849,412 | 17 | 726,342 | 187 | 8,575,755 |
| 72 | 183 | 8,459,206 | 19 | 827,189 | 202 | 9,286,395 |
| 73 | 172 | 7,920,046 | 13 | 590,352 | 185 | 8,510,398 |
| 74 | 222 | 10,382,716 | 8 | 291,101 | 230 | 10,673,817 |
| 75 | 171 | 7,524,916 | 10 | 396,510 | 181 | 7,921,426 |
| 76 | 128 | 5,642,914 | 2 | 72,674 | 130 | 5,715,588 |
| 77 | 111 | 4,714,335 | 4 | 166,961 | 115 | 4,881,296 |
| 78 | 142 | 5,829,629 | 1 | 37,602 | 143 | 5,867,231 |
| 79 | 108 | 4,309,789 | 3 | 91,864 | 111 | 4,401,653 |
| 80 | 96 | 3,857,562 | 1 | 43,711 | 97 | 3,901,273 |
| 81 | 78 | 3,237,847 | - | - | 78 | 3,237,847 |
| 82 | 78 | 3,118,402 | - | - | 78 | 3,118,402 |
| 83 | 66 | 2,326,487 | 2 | 113,336 | 68 | 2,439,823 |
| 84 | 47 | 1,721,376 | - | - | 47 | 1,721,376 |
| 85 | 37 | 1,287,309 | - | - | 37 | 1,287,309 |
| 86 | 35 | 1,079,437 | - | - | 35 | 1,079,437 |
| 87 | 26 | 885,888 | - | - | 26 | 885,888 |
| 88 | 13 | 389,316 | - | - | 13 | 389,316 |
| 89 | 10 | 327,707 | - | - | 10 | 327,707 |
| 90 | 14 | 363,291 | - | - | 14 | 363,291 |
| 91 | 15 | 461,242 | - | - | 15 | 461,242 |
| 92 | 5 | 127,192 | - | - | 5 | 127,192 |
| 93 | 8 | 248,989 | - | - | 8 | 248,989 |
| 94 | 3 | 86,568 | - | - | 3 | 86,568 |
| 95 | 5 | 115,293 | - | - | 5 | 115,293 |
| 96 | 2 | 57,262 | - | - | 2 | 57,262 |
| 97 | 1 | 23,686 | - | - | 1 | 23,686 |
| 98 | 1 | 20,722 | | | 1 | 20,722 |
| Total | 5,200 | \$ 230,427,534 | 632 | \$ 26,026,269 | 5,832 | \$ 256,453,803 |



EXHIBIT III – 1c

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age TOTAL SURVIVORS AND BENEFICIARIES

| |] | Male | F | e male | | Total |
|------------|--------|------------|--------|------------|--------|------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 15 & Under | 85 | \$ 252,702 | 70 | \$ 222,028 | 155 | \$ 474,730 |
| 16 | 17 | 50,551 | 13 | 38,657 | 30 | 89,208 |
| 17 | 17 | 86,568 | 11 | 32,710 | 28 | 119,278 |
| 18 | 23 | 68,393 | 21 | 174,970 | 44 | 243,362 |
| 19 | 24 | 102,922 | 24 | 71,366 | 48 | 174,289 |
| 20 | 21 | 109,291 | 20 | 135,979 | 41 | 245,270 |
| 21 | 16 | 47,524 | 22 | 65,419 | 38 | 112,943 |
| 22 | - | - | 1 | 2,812 | 1 | 2,812 |
| 23 | 4 | 25,844 | 2 | 17,226 | 6 | 43,069 |
| 24 | 1 | 22,493 | 1 | 14,328 | 2 | 36,821 |
| 25 | 6 | 16,438 | 2 | 5,191 | 8 | 21,629 |
| 26 | 1 | 2,974 | 2 | 5,407 | 3 | 8,381 |
| 27 | 1 | 2,664 | - | - | 1 | 2,664 |
| 28 | 4 | 10,559 | 1 | 2,650 | 5 | 13,208 |
| 29 | 1 | 2,866 | 2 | 30,249 | 3 | 33,115 |
| 30 | 1 | 2,974 | 3 | 32,710 | 4 | 35,683 |
| 31 | 4 | 10,490 | 3 | 33,674 | 7 | 44,164 |
| 32 | 3 | 7,517 | 4 | 19,824 | 7 | 27,341 |
| 33 | 1 | 2,326 | 2 | 21,806 | 3 | 24,132 |
| 34 | 1 | 2,974 | 3 | 24,780 | 4 | 27,754 |
| 35 | 4 | 75,917 | 6 | 65,419 | 10 | 141,336 |
| 36 | 1 | 2,974 | 6 | 37,205 | 7 | 40,178 |
| 37 | 3 | 7,873 | 9 | 117,669 | 12 | 125,542 |
| 38 | 2 | 9,684 | 5 | 38,657 | 7 | 48,341 |
| 39 | 2 | 5,947 | 7 | 81,608 | 9 | 87,555 |
| 40 | 1 | 14,540 | 6 | 65,419 | 7 | 79,960 |
| 41 | 4 | 36,989 | 6 | 49,560 | 10 | 86,549 |
| 42 | 3 | 7,747 | 2 | 21,806 | 5 | 29,554 |
| 43 | 1 | 2,974 | 7 | 99,419 | 8 | 102,393 |



EXHIBIT III - 1c

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age TOTAL SURVIVORS AND BENEFICIARIES (continued)

| | Male | | Female | | Total | |
|-----|--------|-----------|--------|------------|--------|------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 44 | 2 | \$ 4,390 | 11 | \$ 120,451 | 13 | \$ 124,841 |
| 45 | 2 | 4,390 | 12 | 199,762 | 14 | 204,152 |
| 46 | 1 | 1,416 | 16 | 205,974 | 17 | 207,390 |
| 47 | 2 | 4,390 | 13 | 141,742 | 15 | 146,131 |
| 48 | 3 | 5,806 | 23 | 433,356 | 26 | 439,161 |
| 49 | 5 | 26,798 | 28 | 439,563 | 33 | 466,361 |
| 50 | 6 | 40,752 | 29 | 456,714 | 35 | 497,466 |
| 51 | 3 | 7,222 | 34 | 637,311 | 37 | 644,532 |
| 52 | 6 | 47,392 | 39 | 585,113 | 45 | 632,505 |
| 53 | 7 | 31,702 | 40 | 537,558 | 47 | 569,260 |
| 54 | 8 | 66,484 | 56 | 1,022,638 | 64 | 1,089,122 |
| 55 | 5 | 27,012 | 50 | 686,892 | 55 | 713,904 |
| 56 | 1 | 2,974 | 62 | 920,517 | 63 | 923,491 |
| 57 | - | - | 81 | 1,198,823 | 81 | 1,198,823 |
| 58 | 4 | 27,754 | 65 | 1,005,280 | 69 | 1,033,034 |
| 59 | 4 | 27,754 | 93 | 1,320,526 | 97 | 1,348,280 |
| 60 | 4 | 26,808 | 72 | 1,002,760 | 76 | 1,029,568 |
| 61 | 6 | 93,052 | 80 | 1,069,787 | 86 | 1,162,839 |
| 62 | 7 | 109,282 | 89 | 1,269,908 | 96 | 1,379,190 |
| 63 | 3 | 24,780 | 123 | 1,899,120 | 126 | 1,923,900 |
| 64 | 4 | 53,516 | 144 | 2,120,511 | 148 | 2,174,028 |
| 65 | 5 | 52,743 | 115 | 1,554,072 | 120 | 1,606,814 |
| 66 | 2 | 13,877 | 145 | 1,947,350 | 147 | 1,961,226 |
| 67 | - | - | 141 | 1,796,385 | 141 | 1,796,385 |
| 68 | 2 | 21,806 | 177 | 2,332,469 | 179 | 2,354,276 |
| 69 | - | - | 212 | 2,855,556 | 212 | 2,855,556 |
| 70 | 1 | 10,903 | 207 | 2,850,621 | 208 | 2,861,524 |
| 71 | 4 | 67,707 | 194 | 2,347,151 | 198 | 2,414,858 |
| 72 | 2 | 21,806 | 258 | 3,469,057 | 260 | 3,490,864 |



EXHIBIT III – 1c

RETIREE AND BENEFICIARY MEMBERSHIP DATA AS OF JANUARY 1, 2022 Number and Annual Retirement Allowances Distributed by Age TOTAL SURVIVORS AND BENEFICIARIES (continued)

| | Male | | Female | | Total | |
|-------|--------|--------------|--------|---------------|--------|---------------|
| Age | Number | Annuities | Number | Annuities | Number | Annuities |
| 73 | - | \$ - | 263 | \$ 3,456,910 | 263 | \$ 3,456,910 |
| 74 | 2 | 13,877 | 288 | 3,514,423 | 290 | 3,528,300 |
| 75 | 2 | 21,806 | 237 | 2,912,654 | 239 | 2,934,461 |
| 76 | 3 | 54,772 | 167 | 2,011,576 | 170 | 2,066,348 |
| 77 | 1 | 10,903 | 223 | 2,729,427 | 224 | 2,740,330 |
| 78 | 1 | 10,903 | 268 | 3,265,119 | 269 | 3,276,023 |
| 79 | 3 | 32,710 | 280 | 3,229,610 | 283 | 3,262,320 |
| 80 | - | - | 276 | 3,244,908 | 276 | 3,244,908 |
| 81 | 2 | 13,877 | 258 | 2,972,887 | 260 | 2,986,764 |
| 82 | 1 | 27,417 | 241 | 2,774,500 | 242 | 2,801,918 |
| 83 | - | - | 217 | 2,415,202 | 217 | 2,415,202 |
| 84 | 1 | 10,903 | 231 | 2,605,425 | 232 | 2,616,328 |
| 85 | - | - | 198 | 2,181,484 | 198 | 2,181,484 |
| 86 | - | - | 228 | 2,503,187 | 228 | 2,503,187 |
| 87 | 1 | 10,903 | 165 | 1,823,772 | 166 | 1,834,675 |
| 88 | - | - | 180 | 1,964,647 | 180 | 1,964,647 |
| 89 | - | - | 145 | 1,608,200 | 145 | 1,608,200 |
| 90 | 1 | 10,903 | 133 | 1,456,105 | 134 | 1,467,009 |
| 91 | - | - | 176 | 1,915,550 | 176 | 1,915,550 |
| 92 | 1 | 10,903 | 103 | 1,162,974 | 104 | 1,173,877 |
| 93 | - | - | 112 | 1,395,280 | 112 | 1,395,280 |
| 94 | - | - | 97 | 1,046,385 | 97 | 1,046,385 |
| 95 | - | - | 74 | 761,169 | 74 | 761,169 |
| 96 | - | - | 43 | 428,853 | 43 | 428,853 |
| 97 | - | - | 29 | 324,903 | 29 | 324,903 |
| 98 | - | - | 22 | 218,698 | 22 | 218,698 |
| 99 | - | - | 8 | 99,907 | 8 | 99,907 |
| 100 | - | - | 11 | 106,983 | 11 | 106,983 |
| 101 | - | - | 7 | 69,134 | 7 | 69,134 |
| 102 | - | - | 3 | 32,710 | 3 | 32,710 |
| 103 | - | - | 1 | 10,903 | 1 | 10,903 |
| Total | 370 | \$ 2,045,104 | 7,554 | \$ 92,199,001 | 7,924 | \$ 94,244,105 |