Illinois Municipal Retirement Fund

Gain/Loss Analysis of Financial Experience Among Active Members During the Period January 1, 2020 to December 31, 2020



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March 15, 2021

Board of Trustees Illinois Municipal Retirement Fund Oak Brook, Illinois 60521

Ladies and Gentlemen:

Submitted in this report are the results of the annual gain and loss analysis of financial experience among the active members of the Illinois Municipal Retirement Fund (IMRF) covering the period from January 1, 2020 to December 31, 2020.

This is one of several documents comprising the full actuarial report. For additional information please see the Annual Actuarial Valuation report dated March 15, 2021.

The valuation was based upon information, furnished by IMRF staff, concerning Retirement Fund benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal reasonability and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by IMRF Staff. GRS is not responsible for unauthorized use of this report.

The valuations are based upon current plan provisions related to Regular Members, Sheriff's Law Enforcement Personnel (SLEP), and Elected County Officials (ECO) employment.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period, or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such future measurements.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge, the information contained in this report is accurate and fairly presents the actuarial position of IMRF as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices and with the Actuarial Standards of Practice issued by the Actuarial Standards Board.

Board of Trustees Illinois Municipal Retirement Fund March 15, 2021 Page 2

Mark Buis, Francois Pieterse, and Laura Frankowiak are Members of the American Academy of Actuaries (MAAA). These actuaries meet the Academy's Qualification Standards to render the actuarial opinions contained herein.

This report was prepared using our proprietary valuation model and related software which in our professional judgment has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled. We are relying on the GRS actuaries and Internal Software, Training, and Processes Team who developed and maintain the model.

The signing actuaries are independent of the plan sponsor.

Gabriel, Roeder, Smith & Company will be pleased to review this valuation and report with the Board of Trustees and to answer any questions pertaining to the valuation.

Respectfully submitted,

Ward Bri

GABRIEL, ROEDER, SMITH & COMPANY

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MB/FP/LF:ah



Comments

Purpose of Gain/Loss Analysis. Regular actuarial valuations give valuable information about the composite change in unfunded actuarial accrued liabilities -- whether or not the liabilities are increasing or decreasing and by how much.

Valuations do not show the portion of the change attributable to each risk area within the retirement system financial mechanism: the rate of investment return which plan assets will earn; the rates of withdrawal of active members who leave covered employment; the rates of mortality; the rates of disability; the rates of pay increases; and the ages at actual retirement. In an actuarial valuation, assumptions must be made as to what these rates will be, for the next year and for decades in the future.

The objective of a gain and loss analysis is to determine the portion of the change in actuarial condition (unfunded actuarial accrued liabilities) attributable to each risk area.

The fact that actual experience differs from assumed experience is to be expected -- **the future cannot be predicted with precision.** The economic risk areas (particularly investment return and pay increases) are volatile. Inflation directly affects economic risk areas, and inflation seems to defy reliable prediction.

Changes in the assumed experience for a risk area should be made when the differences between assumed and actual experience have been observed to be sizable and persistent. A gain and loss analysis covering a relatively short period may or may not be indicative of *long-term trends, which are the basis of financial assumptions.*

Data Used. The 2020 gain/loss analysis is based on the active member population as reported for use in preparing the December 31, 2019 and December 31, 2020 regular annual actuarial valuations. Please note however, that counts shown in this report may not match the December 31, 2020 or the December 31, 2019 valuations since data records for members who have more than one record have been combined. The 2019 reported active member data was matched with the 2020 reported active/inactive member data and the 2020 reported data for retirees and beneficiaries. This matching shows the movement of persons from active member status to various inactive status categories (e.g., retirement, death, disability, etc.). A reconciliation of the population is shown on the following page.



Comments

| | | Acti | ve Populatior | n Reconciliatio | n | |
|-------------------------------|---------|-------|---------------|-----------------|---------|----------|
| | | | Actual | | | |
| | | | E | СО | |] |
| | Regular | SLEP | Regular | SLEP | Total | Expected |
| Beginning of Year Census | 172,899 | 4,118 | 88 | 5 | 177,110 | |
| + New People | 16,464 | 291 | 1 | 0 | 16,756 | |
| - Normal Retirement | 4,801 | 140 | 7 | 1 | 4,949 | 5,213 |
| - Early Retirement | 935 | 0 | 0 | 0 | 935 | 1,099 |
| - Vested Deferred Retirements | 2,140 | 30 | 15 | 0 | 2,185 | 1,281 |
| - Deaths | 149 | 4 | 0 | 0 | 153 | 497 |
| - Disabilities | 323 | 13 | 0 | 0 | 336 | 39 |
| - Other Terminations | 15,070 | 163 | 1 | 0 | 15,234 | 14,516 |
| End of Year Census | 165,945 | 4,059 | 66 | 4 | 170,074 | |

The expected number of disabilities is based on the assumed rates of disability for permanent disability. The actual number of disabilities shown above is comprised of both temporary and permanent disability cases with temporary cases making up the majority.

The retirement system had *a net experience gain/(loss) of \$1,498 million* during the 2020 observation year, which is 3.16% of the beginning accrued liabilities. During the 2020 observation year, IMRF experienced a return on the Market Value of Assets of 14.6% (10.0% on Funding Value of Assets). The gain of \$1,177 million related to investment return and described on the following page is based on the Actuarial Value of Assets (AVA), which is a five-year smoothed market value. In this method, a portion of the current years' market value loss is combined with portions of the gains or losses from the prior four years to arrive at the AVA. See page 7 for a full description of this method.



Changes in Unfunded Actuarial Accrued Liabilities During Calendar Year 2020

The schedule below estimates the total gain or loss on Retirement Fund activities for the year as the difference between Expected and Actual Unfunded Liability.

| | Unfunded Liability [| Development During |
|---|----------------------|--------------------|
| | 2020 | 2019 |
| | | |
| Unfunded Liability January 1 | \$ 4,421,715,330 | \$ 4,524,158,460 |
| (Assumed Payments) | (327,270,697) | (336,629,003) |
| Assumed Interest | 308,849,181 | 326,641,691 |
| | | |
| Expected Unfunded Liability December 31 | 4,403,293,814 | 4,514,171,148 |
| Change Due to Change in Assumptions | (357,008,491) | 0 |
| Change Due to Benefit Changes | 0 | 0 |
| Change Due to Investment Experience | (1,177,273,755) | (367,178,690) |
| Change Due to Demographic and Other Sources | 36,498,798 | 274,722,872 |
| | | |
| Actual Unfunded Liability December 31 | 2,905,510,366 | 4,421,715,330 |
| | | |
| Gain (Loss) for the Year | \$ 1,497,783,448 | \$ 92,455,818 |

The following schedule reconciles the employer contribution rate from last year to this year.

| _ | Regular | SLEP | ECO | Total |
|----------------------------------|---------|---------|---------|---------|
| Prior Year | 10.62 % | 23.70 % | 71.68 % | 11.23 % |
| Experience Study | (0.90)% | (1.77)% | (4.26)% | (0.94)% |
| Tier 2 Structure | (0.10)% | (0.18)% | 0.00 % | (0.10)% |
| Investment Return | (1.07)% | (1.74)% | (8.80)% | (1.09)% |
| Pay Increases | 0.01 % | 0.33 % | (0.16)% | 0.02 % |
| Demographic | 0.04 % | (0.12)% | (3.10)% | 0.03 % |
| Payroll Growth | 0.05 % | 0.07 % | 6.51 % | 0.06 % |
| Death and Disability Rate Change | (0.01)% | (0.01)% | (0.01)% | (0.01)% |
| Other | (0.06)% | (0.47)% | (0.50)% | (0.07)% |
| Current Year | 8.59 % | 19.81 % | 61.37 % | 9.13 % |

The next page shows the breakdown of the total gain or loss by source. Risk areas related to assumptions include economic risks and demographic risks. Economic risks relate to pay increases and investment return. Demographic risks relate to rates of retirement, death, disability, and other terminations. Actual number counts for each decrement are shown on pages 16 to 35. It is important to note that liability weighting was used to develop assumptions for certain decrements (such as retirement and age-based withdrawal) and therefore looking at number counts alone is not always the best indicator of plan experience.



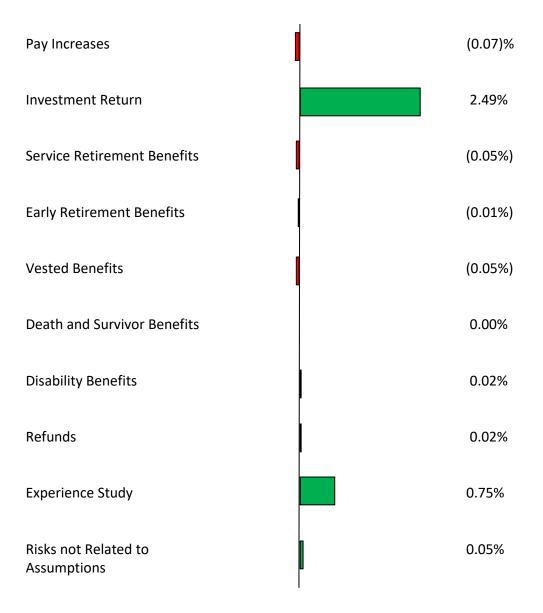
Changes in Active Member Accrued Liabilities Gains & Losses by Risk Area During Calendar Year 2020

| | | Gain (Loss | s) in Period | | | | | | | |
|---------------------------------------|----------|----------------|--------------|---------------------------|--|--|--|--|--|--|
| Type of Risk Area | Regular | SLEP | Totals | Percent of Liabilities | | | | | | |
| | | Millions of \$ | | | | | | | | |
| Risks Related to Assumptions | | | | | | | | | | |
| Economic Risk Areas | | | | | | | | | | |
| Pay Increases | \$(11.8) | \$(15.2) | \$ (27.0) | (0.07)% | | | | | | |
| Investment Return | | | 1,177.3 | 2.49% | | | | | | |
| Demographic Risk Areas | | | | | | | | | | |
| Service Retirements | (26.3) | 0.7 | (25.6) | (0.05)% | | | | | | |
| Early Retirements | (6.6) | 0.0 | (6.6) | (0.01)% | | | | | | |
| Vested Deferred Retirements | (20.8) | (2.9) | (23.7) | (0.05)% | | | | | | |
| Death and Survivor Benefits | (2.5) | 0.2 | (2.3) | 0.00% | | | | | | |
| Disability Benefits | 8.4 | 2.2 | 10.6 | 0.02% | | | | | | |
| Terminated with Refund | 10.4 | 5.2 | 15.6 | 0.02% | | | | | | |
| Experience Study | | | 357.0 | 0.75% | | | | | | |
| Risks not Related to Assumptions | | | 22.5 | 0.05% | | | | | | |
| Total Gain (or Loss) During Period | | | 1,497.8 | 3.16% | | | | | | |
| Beginning of Year Accrued Liabilities | | | \$47,357.9 | 100.0% | | | | | | |



Gain/Loss Experience During Calendar Year 2020

Gain/Loss Experience Expressed as a % of Beginning of Year Liabilities





Experience Gains & Losses by Risk Area Comparative Statement (\$ in Millions)

| | | | | | Vested | Death and | | Terminated | Experience | | Total G | ain (Loss) |
|-------------------|-----------|------------|------------|------------|------------|-----------|------------|------------|-------------------------------|-----------|-----------|-------------|
| Experience | Pay | Investment | Service | Early | Deferred | Survivor | Disability | with | Study / Change | | | Percent of |
| Period | Increases | Return | Retirement | Retirement | Retirement | Benefits | Benefits | Refund | in Discount Rate ³ | Other | \$ | Liabilities |
| | | | | | | | | | | | | |
| 2001 | \$(29.5) | \$ 69.4 | (4.9) | \$(1.0) | \$(20.3) | \$2.9 | \$ 10.0 | \$ 11.4 | | \$ 1.4 | \$ 39.4 | 0.3 % |
| 2002 1 | 19.5 | (611.8) | (9.9) | (2.0) | (31.0) | 4.3 | 6.9 | 2.3 | | (66.7) | (688.4) | (4.5)% |
| 2003 | 36.8 | (404.6) | (18.4) | (5.4) | (28.0) | 2.3 | 5.9 | 10.0 | | (250.0) | (651.4) | (3.9)% |
| 2004 | (0.3) | (478.5) | (14.7) | (5.3) | (27.5) | 3.4 | 7.3 | 15.8 | | (183.0) | (682.6) | (3.8)% |
| 2005 ¹ | 130.0 | 23.8 | (10.4) | (5.0) | (28.3) | 1.9 | 12.0 | 19.3 | | (111.2) | 32.1 | 0.2 % |
| 2006 | 23.5 | 262.2 | (8.6) | (3.4) | (32.7) | 2.1 | 9.4 | 11.1 | | (211.7) | 51.9 | 0.3 % |
| 2007 | (15.4) | 305.8 | (8.4) | (2.6) | (35.3) | 4.1 | 10.2 | 23.2 | | (170.5) | 111.1 | 0.6 % |
| 2008 ¹ | 8.2 | (3,331.5) | 2.4 | (2.1) | (40.8) | 1.8 | 11.4 | 9.1 | | (40.5) | (3,382.0) | (12.6)% |
| 2009 | 70.2 | (343.2) | 11.6 | (0.5) | (38.3) | 3.5 | 12.9 | (11.8) | | (53.5) | (349.1) | (1.4)% |
| 2010 | 359.6 | (90.5) | (0.2) | 0.0 | (32.3) | 3.3 | 7.3 | (0.3) | | (442.1) 2 | (195.2) | (0.7)% |
| 2011 ¹ | 238.9 | (164.3) | (22.9) | (5.7) | (25.9) | 7.3 | 8.2 | 19.9 | \$ (181.1) | (163.3) | (288.9) | (1.0)% |
| 2012 | 230.2 | 71.0 | 2.0 | (3.0) | (24.7) | 6.5 | 20.8 | 23.8 | | (89.0) | 237.6 | 0.8 % |
| 2013 | 141.5 | 811.5 | (11.6) | (2.8) | (22.7) | 3.2 | 15.7 | 45.1 | | (74.0) | 905.9 | 2.8 % |
| 2014 ¹ | 64.2 | 767.6 | (19.3) | (4.9) | (19.7) | (2.2) | 17.2 | 37.9 | (1,309.7) | 34.9 | (434.0) | (1.3)% |
| 2015 | 22.9 | 313.2 | (28.5) | (4.7) | (16.8) | (3.4) | 15.8 | 33.0 | | (100.6) | 230.9 | 0.6 % |
| 2016 | 312.7 | (109.9) | (20.2) | (2.6) | (14.1) | (3.3) | 12.0 | 35.7 | | (185.5) | 24.8 | 0.1 % |
| 2017 ¹ | 104.3 | 475.5 | (21.8) | (2.6) | (17.8) | (8.2) | 9.7 | 22.4 | 1,094.6 | (32.6) | 1,623.5 | 3.9 % |
| 2018 4 | (40.1) | (385.8) | (19.5) | (5.3) | (14.5) | (7.7) | 11.5 | 31.2 | (1,191.0) | 92.9 | (1,528.3) | (3.6)% |
| 2019 | (45.1) | 367.2 | (20.2) | (7.4) | (18.2) | (10.3) | 17.0 | 32.4 | | (222.9) | 92.5 | 0.2 % |
| 2020 ¹ | (27.0) | 1,177.3 | (25.6) | (6.6) | (23.7) | (2.3) | 10.6 | 15.6 | 357.0 | 22.5 | 1,497.8 | 3.2 % |

¹ Changes in assumptions due to the Experience Study.



² Includes one-time data changes of approximately \$250 million.

³ Includes Experience Study Changes.

⁴ Change in Investment Rate of Return.

Development of Funding Value of Retirement System Assets Gain (Loss) from Investment Return During the Calendar Year 2020

| Year Ended December 31 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|--|------------------|------------------|---------------|---------------|---------------|---------------|
| A. Funding Value Beginning of Year | \$40,829,952,193 | \$42,936,185,938 | | | | |
| B. Market Value End of Year | 44,923,481,136 | 50,229,709,593 | | | | |
| C. Market Value Beginning of Year | 38,755,630,459 | 44,923,481,136 | | | | |
| D. Non-Investment/Administrative Net Cash Flow | (1,178,399,497) | (1,166,605,356) | | | | |
| E. Investment Return | | | | | | |
| E1. Market Total: B-C-D | 7,346,250,174 | 6,472,833,813 | | | | |
| E2. Assumed Rate of Return | 7.25% | 7.25% | | | | |
| E3. Assumed Amount of Return | 2,917,454,552 | 3,070,584,036 | | Sche | duled | |
| E4. Return Subject to Phase-in: E1-E3 | 4,428,795,622 | 3,402,249,777 | | | | |
| F. Phased-In Recognition of Investment Return | | | | | | |
| F1. Current Year: 0.20xE4 | 885,759,124 | 680,449,955 | Unknown | Unknown | Unknown | Unknown |
| F2. First Prior Year | (518,580,434) | 496,823,800 | \$680,449,955 | Unknown | Unknown | Unknown |
| F3. Second Prior Year | - | - | 496,823,800 | \$680,449,955 | Unknown | Unknown |
| F4. Third Prior Year | - | - | - | 496,823,800 | \$680,449,955 | Unknown |
| F5. Fourth Prior Year | - | - | - | - | 496,823,798 | \$680,449,957 |
| F6. Funding Corridor Adjustment | | | | | | |
| F7. Total Scheduled Phase-in of Gain/(Loss) | 367,178,690 | 1,177,273,755 | 1,177,273,755 | 1,177,273,755 | 1,177,273,753 | 680,449,957 |
| G. Acceptable Phase-In of Investment Return | | | | | | |
| G1. Projected Funding Value without Phase-In: A+D+E3 | 42,569,007,248 | 44,840,164,618 | | | | |
| G2. Limit on Phase-In: B-G1 | 2,354,473,888 | 5,389,544,975 | | | | |
| G3. Acceptable Phase-In Amount | 367,178,690 | 1,177,273,755 | | | | |
| H. Funding Value End of Year: A+D+E3+G3 | 42,936,185,938 | 46,017,438,373 | | | | |
| I. Difference Between Market and Funding Value | 1,987,295,198 | 4,212,271,220 | 3,034,997,465 | 1,857,723,710 | 680,449,957 | - |
| J. Recognized Rate of Return (Funding Value) | 8.2 % | 10.0 % | | | | |
| K. Market Rate of Return | 19.2 % | 14.6 % | | | | |
| L. Ratio of Funding Value to Market Value | 95.6 % | 91.6 % | | | | |
| L. Ratio of Funding Value to Market Value | 95.6 % | 91.6 % | | | | |

The Funding Value of Assets recognizes assumed investment return (line E3) fully each year. Differences between actual and assumed investment return (line E4) are phased-in over a closed 5-year period subject to a 20% corridor. The acceptable phase-in amount (Item G3) is the minimum of Items F7 and G2, if G2 is positive. If G2 is negative, the acceptable phase-in amount is the greater of Items F7 and G2.



Regular Employees in Valuation by Age and Years of Service as of December 31, 2019

| | | | Years | of Service t | o Valuation | Date | | | |
|------------|--------|--------|--------|--------------|-------------|--------|--------|---------|---------|
| | | M | en | | | Wor | men | | Total |
| Age | 0-7 | 8-19 | 20-34 | 35 Plus | 0-7 | 8-19 | 20-34 | 35 Plus | Number |
| 24 & Under | 2,658 | | | | 3,494 | | | | 6,152 |
| 25- 29 | 4,984 | 105 | | | 7,052 | 64 | | | 12,205 |
| 30- 34 | 4,475 | 1,212 | | | 7,122 | 1,082 | | | 13,891 |
| | , | | | | | | | | |
| 35- 39 | 3,420 | 2,804 | 26 | | 7,232 | 2,865 | 34 | | 16,381 |
| 40- 44 | 2,690 | 3,001 | 632 | | 7,580 | 3,718 | 459 | | 18,080 |
| 45- 49 | 2,453 | 2,503 | 1,617 | 8 | 7,667 | 4,687 | 1,404 | 3 | 20,342 |
| 50 | 471 | 523 | 453 | 4 | 1,642 | 1,281 | 386 | | 4,760 |
| 51 | 482 | 496 | 484 | 2 | 1,468 | 1,189 | 461 | | 4,582 |
| 52 | 498 | 473 | 503 | 6 | 1,456 | 1,322 | 551 | 2 | 4,811 |
| 53 | 527 | 525 | 550 | 8 | 1,348 | 1,457 | 543 | 4 | 4,962 |
| 54 | 504 | 499 | 550 | 27 | 1,299 | 1,531 | 626 | 14 | 5,050 |
| 55 | 599 | 525 | 594 | 51 | 1,259 | 1,658 | 706 | 25 | 5,417 |
| 56 | 536 | 566 | 542 | 57 | 1,189 | 1,659 | 711 | 23 | 5,283 |
| 57 | 601 | 579 | 595 | 54 | 1,162 | 1,656 | 829 | 55 | 5,531 |
| 58 | 574 | 577 | 526 | 104 | 1,148 | 1,619 | 858 | 59 | 5,465 |
| 59 | 594 | 561 | 517 | 86 | 1,035 | 1,652 | 920 | 65 | 5,430 |
| 60 | 576 | 541 | 462 | 95 | 916 | 1,512 | 964 | 81 | 5,147 |
| 61 | 508 | 518 | 411 | 97 | 872 | 1,439 | 846 | 84 | 4,775 |
| 62 | 536 | 478 | 350 | 115 | 670 | 1,270 | 929 | 60 | 4,408 |
| 63 | 491 | 451 | 315 | 78 | 670 | 1,123 | 837 | 58 | 4,023 |
| 64 | 432 | 383 | 239 | 48 | 571 | 894 | 710 | 48 | 3,325 |
| 65 | 418 | 373 | 196 | 52 | 473 | 687 | 593 | 57 | 2,849 |
| 66 | 312 | 305 | 143 | 39 | 344 | 472 | 408 | 17 | 2,040 |
| 67 | 291 | 269 | 114 | 25 | 253 | 370 | 263 | 20 | 1,605 |
| 68 | 232 | 204 | 65 | 15 | 197 | 292 | 225 | 22 | 1,252 |
| 69 | 211 | 193 | 51 | 22 | 191 | 214 | 157 | 14 | 1,053 |
| | | | | | | | | | |
| 70 & Over | 893 | 798 | 205 | 48 | 732 | 780 | 532 | 92 | 4,080 |
| Totals | 30,966 | 19,462 | 10,140 | 1,041 | 59,042 | 36,493 | 14,952 | 803 | 172,899 |



ECO Regular Employees in Valuation by Age and Years of Service as of December 31, 2019

| | Years of Service to Valuation Date | | | | | | | | | |
|------------|------------------------------------|------|-------|---------|-----|------|-------|---------|--------|--|
| | | | en | | | Wo | men | | Total | |
| Age | 0-7 | 8-19 | 20-34 | 35 Plus | 0-7 | 8-19 | 20-34 | 35 Plus | Number | |
| 24 & Under | | | | | | | | | | |
| 25- 29 | | | | | | | | | | |
| 30- 34 | | | | | | | | | | |
| | | | | | | | | | | |
| 35- 39 | | | | | | | | | | |
| 40- 44 | | 4 | | | | 1 | | | 5 | |
| 45- 49 | | 3 | 1 | | | 4 | | | 8 | |
| 50 | | 2 | | | | 2 | | | 4 | |
| 51 | | | 1 | | | | | | 1 | |
| 52 | | 2 | 1 | | | | | | 3 | |
| 53 | | 1 | 3 | | | 1 | | | 5 | |
| 54 | | 2 | 1 | | | 1 | | | 4 | |
| | | | | | | | | | | |
| 55 56 | 4 | 4 | | | | 4 | | | 4 | |
| 56 | 1 | 1 | | | | | 1 | | 3 | |
| 57 | 4 | 5 | | | | 2 | | 1 | 8 | |
| 58 | 1 | 3 | | | | 1 | | 1 | 6 | |
| 59 | 1 | | | | | 1 | | | 2 | |
| 60 | 1 | 1 | 1 | | | | | | 3 | |
| 61 | | 1 | | | | 3 | | | 4 | |
| 62 | | | 2 | 1 | | | 1 | 1 | 5 | |
| 63 | | 1 | 2 | | | 1 | 2 | | 6 | |
| 64 | | 1 | | | | | 1 | | 2 | |
| 65 | | 3 | | 1 | | | | | 4 | |
| 66 | | 1 | 2 | _ | | | | | 3 | |
| 67 | | - | _ | | | | 1 | | 1 | |
| 68 | | | | | | | _ | | _ | |
| 69 | | 2 | | | | | 1 | | 3 | |
| | | | | | | | | | | |
| 70 & Over | | 3 | | | | | | 1 | 4 | |
| Totals | 4 | 36 | 14 | 2 | | 21 | 7 | 4 | 88 | |



SLEP Employees in Valuation by Age and Years of Service as of December 31, 2019

| | | Years of Service to Valuation Date | | | | | | | | | | |
|------------|-------|------------------------------------|-------|---------|-----|------|-------|---------|--------|--|--|--|
| | | Me | | | | Wo | men | | Total | | | |
| Age | 0-7 | 8-19 | 20-34 | 35 Plus | 0-7 | 8-19 | 20-34 | 35 Plus | Number | | | |
| 24 & Under | 102 | | | | 18 | | | | 120 | | | |
| 25- 29 | 408 | 5 | | | 45 | 3 | | | 461 | | | |
| 30- 34 | 353 | 110 | | | 43 | 26 | | | 532 | | | |
| 30-34 | 333 | 110 | | | 43 | 20 | | | 332 | | | |
| 35- 39 | 189 | 421 | | | 36 | 58 | | | 704 | | | |
| 40- 44 | 116 | 400 | 63 | | 14 | 71 | 15 | | 679 | | | |
| 45- 49 | 54 | 244 | 337 | | 8 | 60 | 40 | | 743 | | | |
| 50 | 7 | 49 | 75 | | 2 | 7 | 8 | | 148 | | | |
| 51 | 13 | 45 | 52 | | 1 | 4 | 9 | | 124 | | | |
| 52 | 13 | 28 | 43 | | 1 | 5 | 7 | | 97 | | | |
| 53 | 5 | 23 | 39 | | 1 | 5 | 4 | | 77 | | | |
| 54 | 5 | 21 | 26 | | 1 | 6 | 1 | | 60 | | | |
| 55 | 9 | 21 | 11 | | | 6 | 6 | | 53 | | | |
| 56 | 7 | 13 | 23 | | | 2 | 5 | | 50 | | | |
| 57 | 7 | 12 | 14 | 1 | | 5 | 3 | | 42 | | | |
| 58 | 3 | 15 | 11 | | | 3 | 1 | | 33 | | | |
| 59 | 10 | 10 | 7 | 2 | | 4 | 4 | | 37 | | | |
| 60 | 5 | 14 | 13 | | 1 | 4 | 1 | | 38 | | | |
| 61 | 3 | 12 | 5 | 1 | | 2 | 3 | | 26 | | | |
| 62 | 2 | 11 | 1 | 1 | | 1 | | | 16 | | | |
| 63 | 3 | 4 | 1 | 1 | | 1 | 2 | 1 | 13 | | | |
| 64 | 3 | 8 | 3 | 1 | | 2 | 1 | | 18 | | | |
| 65 | 1 | 3 | 5 | 1 | | 1 | | | 11 | | | |
| 66 | 4 | 7 | 1 | 1 | | | 2 | | 15 | | | |
| 67 | 2 | 7 | | 1 | | | | | 10 | | | |
| 68 | | 1 | | | | | | | 1 | | | |
| 69 | | 2 | | | | 1 | | | 3 | | | |
| 70 & Over | 2 | 4 | 1 | | | | | | 7 | | | |
| Totals | 1,326 | 1,490 | 731 | 10 | 171 | 277 | 112 | 1 | 4,118 | | | |



ECO SLEP Employees in Valuation by Age and Years of Service as of December 31, 2019

| | Years of Service to Valuation Date | | | | | | | | | |
|------------|------------------------------------|------|-------|---------|-----|------|-------|---------|--------|--|
| | | | en | | | Wo | men | | Total | |
| Age | 0-7 | 8-19 | 20-34 | 35 Plus | 0-7 | 8-19 | 20-34 | 35 Plus | Number | |
| 24 & Under | | | | | | | | | | |
| 25- 29 | | | | | | | | | | |
| 30- 34 | | | | | | | | | | |
| | | | | | | | | | | |
| 35- 39 | | | | | | | | | | |
| 40- 44 | | | | | | | | | | |
| 45- 49 | | | | | | | | | | |
| 50 | | | | | | | | | | |
| 51 | | | | | | | | | | |
| 52 | | 1 | | | | | | | 1 | |
| 53 | | 1 | | | | | | | 1 1 | |
| 54 | | | | | | | | | | |
| | | | | | | | | | | |
| 55 - 6 | | | | | | | | | | |
| 56 | | | | | | | | | | |
| 57 | | | | | | | | | | |
| 58 | | | | | | | | | | |
| 59 | | | | | | | | | | |
| 60 | | | | | | | | | | |
| 61 | | | | | | | | | | |
| 62 | | | | | | | | | | |
| 63 | | 1 | | | | | | | 1 | |
| 64 | | | | | | | | | | |
| 65 | | | | | | | | | | |
| 66 | | | | | | | | | | |
| 67 | | | | | | | | | | |
| 68 | | | | | | | | | | |
| 69 | | | | 2 | | | | | 2 | |
| 70 & Over | | | | | | | | | | |
| Totals | | 3 | | 2 | | | | | 5 | |



Regular Employees in Valuation by Age and Years of Service as of December 31, 2020

| | | | Years | of Service t | o Valuatio | n Date | | | |
|------------|----------------|--------|--------|--------------|------------|--------|--------|---------|---------|
| | | М | en | | | Wo | men | | Total |
| Age | 0-7 | 8-19 | 20-34 | 35 Plus | 0-7 | 8-19 | 20-34 | 35 Plus | Number |
| 24 & Under | 2,363 | | | | 3,008 | | | | 5,371 |
| 25- 29 | 2,363 4,760 | 110 | | | 6,637 | 69 | | | 11,576 |
| 30- 34 | 4,414 | 1,215 | | | 6,940 | 1,062 | | | 13,631 |
| 30 34 | 7,717 | 1,213 | | | 0,540 | 1,002 | | | 13,031 |
| 35- 39 | 3,308 | 2,789 | 34 | | 6,796 | 2,741 | 23 | | 15,691 |
| 40- 44 | 2,730 | 2,960 | 665 | | 7,276 | 3,718 | 530 | 1 | 17,880 |
| 45- 49 | 2,298 | 2,388 | 1,620 | 7 | 7,044 | 4,259 | 1,399 | 3 | 19,018 |
| 50 | 511 | 500 | 502 | 5 | 1,440 | 1,210 | 466 | 1 | 4,635 |
| 51 | 467 | 504 | 485 | 4 | 1,496 | 1,277 | 457 | | 4,690 |
| 52 | 492 | 459 | 527 | 2 | 1,357 | 1,161 | 533 | 2 | 4,533 |
| 53 | 480 | 460 | 523 | 12 | 1,352 | 1,304 | 601 | 7 | 4,739 |
| 54 | 483 | 498 | 596 | 22 | 1,222 | 1,402 | 618 | 10 | 4,851 |
| 55 | 487 | 484 | 529 | 45 | 1,223 | 1,444 | 686 | 19 | 4,917 |
| 56 | 606 | 498 | 535 | 52 | 1,131 | 1,566 | 734 | 26 | 5,148 |
| 57 | 511 | 541 | 544 | 61 | 1,092 | 1,549 | 751 | 41 | 5,090 |
| 58 | 591 | 545 | 562 | 73 | 1,026 | 1,484 | 905 | 61 | 5,247 |
| 59 | 525 | 577 | 474 | 123 | 1,038 | 1,440 | 947 | 60 | 5,184 |
| 60 | 536 | 531 | 474 | 96 | 898 | 1,473 | 947 | 70 | 5,025 |
| 61 | 546 | 514 | 392 | 101 | 828 | 1,286 | 958 | 73 | 4,698 |
| 62 | 452 | 471 | 370 | 82 | 778 | 1,193 | 838 | 79 | 4,263 |
| 63 | 474 | 435 | 274 | 93 | 556 | 1,051 | 819 | 57 | 3,759 |
| 64 | 426 | 411 | 281 | 68 | 537 | 942 | 763 | 47 | 3,475 |
| 65 | 358 | 345 | 200 | 42 | 427 | 707 | 578 | 45 | 2,702 |
| 66 | 332 | 302 | 123 | 35 | 361 | 466 | 414 | 44 | 2,077 |
| 67 | 255 | 252 | 95 | 22 | 271 | 334 | 259 | 16 | 1,504 |
| 68 | 234 | 234 | 96 | 17 | 196 | 291 | 205 | 17 | 1,290 |
| 69 | 176 | 161 | 54 | 11 | 147 | 223 | 168 | 17 | 957 |
| 70 & Over | 868 | 775 | 205 | 66 | 708 | 744 | 533 | 95 | 3,994 |
| Totals | 29,683 | 18,959 | 10,160 | 1,039 | 55,785 | 34,396 | 15,132 | 791 | 165,945 |



ECO Regular Employees in Valuation by Age and Years of Service as of December 31, 2020

| | | | Years | of Service t | o Valuation | n Date | | | |
|------------|-----|------|-------|--------------|-------------|--------|-------|---------|--------|
| | | | en | | | Wo | men | | Total |
| Age | 0-7 | 8-19 | 20-34 | 35 Plus | 0-7 | 8-19 | 20-34 | 35 Plus | Number |
| 24 & Under | | | | | | | | | |
| 25- 29 | | | | | | | | | |
| 30- 34 | | | | | | | | | |
| | | | | | | | | | |
| 35- 39 | | | | | | | | | |
| 40- 44 | _ | 3 | | | | 1 | | | 4 |
| 45- 49 | 1 | 1 | 3 | | | 2 | | | 7 |
| 50 | | | | | | 2 | | | 2 |
| 51 | | 2 | | | | 2 | | | 4 |
| 52 | | | 1 | | | | | | 1 |
| 53 | | | 1 | | | | | | 1 |
| 54 | | 1 | 3 | | | | 1 | | 5 |
| 55 | | 2 | 1 | | | 1 | | | 4 |
| 56 | | | | | | 4 | | | 4 |
| 57 | 1 | 1 | | | | | | | 2 |
| 58 | | 3 | 1 | | | | 1 | 1 | 6 |
| 59 | | 2 | | | | 1 | | 1 | 4 |
| 60 | | 1 | | | | 1 | | | 2 |
| 61 | 1 | 1 | 1 | | | | | | 3 |
| 62 | | | | | | 2 | | | 2 |
| 63 | | | | 1 | | | 1 | | 2 |
| 64 | | | 1 | | | 1 | 1 | | 3 |
| 65 | | | | | | | 1 | | 1 |
| 66 | | 2 | | | | | | | 2 |
| 67 | | 1 | 1 | | | | | | 2 |
| 68 | | | | | | | | | |
| 69 | | | | | | | | | |
| 70 & Over | | 3 | | | | | 1 | 1 | 5 |
| Totals | 3 | 23 | 13 | 1 | | 17 | 6 | 3 | 66 |



SLEP Employees in Valuation by Age and Years of Service as of December 31, 2020

| | Years of Service to Valuation Date | | | | | | | | |
|------------|------------------------------------|-------|-------|---------|-----|------|-------|---------|--------|
| | | M | en | | | Woi | men | | Total |
| Age | 0-7 | 8-19 | 20-34 | 35 Plus | 0-7 | 8-19 | 20-34 | 35 Plus | Number |
| 24 & Under | 85 | | | | 15 | | | | 100 |
| 25- 29 | 383 | 5 | | | 49 | 1 | | | 438 |
| 30- 34 | 374 | 91 | | | 57 | 15 | | | 537 |
| 35- 39 | 203 | 391 | | | 30 | 62 | | | 686 |
| 40- 44 | 116 | 414 | 70 | | 17 | 73 | 11 | | 701 |
| 45- 49 | 47 | 215 | 317 | | 12 | 48 | 50 | | 689 |
| 50 | 12 | 53 | 72 | 1 | 1 | 5 | 8 | | 152 |
| 51 | 8 | 42 | 48 | | 3 | 5 | 7 | | 113 |
| 52 | 14 | 35 | 46 | | 1 | 4 | 7 | | 107 |
| 53 | 15 | 26 | 33 | | 1 | 5 | 4 | | 84 |
| 54 | 7 | 20 | 37 | | 1 | 4 | 2 | | 71 |
| 55 | 5 | 17 | 23 | 1 | 1 | 5 | 1 | | 53 |
| 56 | 9 | 20 | 8 | 1 | | 6 | 6 | | 50 |
| 57 | 7 | 12 | 20 | | 1 | 2 | 4 | | 46 |
| 58 | 8 | 11 | 13 | 1 | | 4 | 4 | | 41 |
| 59 | 4 | 12 | 8 | | | 2 | 1 | | 27 |
| 60 | 8 | 8 | 8 | 2 | | 3 | 2 | | 31 |
| 61 | 6 | 12 | 10 | 1 | | 2 | | | 31 |
| 62 | 1 | 11 | 7 | 1 | | 2 | 2 | 1 | 25 |
| 63 | 3 | 9 | 2 | | | 1 | | | 15 |
| 64 | 3 | 2 | 1 | 1 | | | 2 | 1 | 10 |
| 65 | 2 | 6 | 1 | 1 | | | 1 | | 11 |
| 66 | | 2 | 4 | 1 | | 1 | | | 8 |
| 67 | 4 | 6 | 2 | | | | 1 | | 13 |
| 68 | 2 | 6 | | 2 | | | | | 10 |
| 69 | | 1 | | | | | | | 1 |
| 70 & Over | 2 | 6 | | | | | 1 | | 9 |
| Totals | 1,328 | 1,433 | 730 | 13 | 189 | 250 | 114 | 2 | 4,059 |



ECO SLEP Employees in Valuation by Age and Years of Service as of December 31, 2020

| | | Years of Service to Valuation Date | | | | | | | |
|------------|-----|------------------------------------|-------|---------|-----|------|-------|---------|--------|
| | | М | en | | | Wo | men | | Total |
| Age | 0-7 | 8-19 | 20-34 | 35 Plus | 0-7 | 8-19 | 20-34 | 35 Plus | Number |
| 24 & Under | | | | | | | | | |
| 25- 29 | | | | | | | | | |
| 30- 34 | | | | | | | | | |
| | | | | | | | | | |
| 35- 39 | | | | | | | | | |
| 40- 44 | | | | | | | | | |
| 45- 49 | | | | | | | | | |
| 50 | | | | | | | | | |
| 51 | | | | | | | | | |
| 52 | | | | | | | | | |
| 53 | | | | | | | | | |
| 54 | | 1 | | | | | | | 1 |
| | | _ | | | | | | | _ |
| 55 | | | | | | | | | |
| 56 | | | | | | | | | |
| 57 | | | | | | | | | |
| 58 | | | | | | | | | |
| 59 | | | | | | | | | |
| 60 | | | | | | | | | |
| 61 | | | | | | | | | |
| 62 | | | | | | | | | |
| 63 | | | | | | | | | |
| 64 | | 1 | | | | | | | 1 |
| 65 | | | | | | | | | |
| | | | | | | | | | |
| 66 67 | | | | | | | | | |
| 68 | | | | | | | | | |
| 69 | | | | | | | | | |
| | | | | | | | | | |
| 70 & Over | | | | 2 | | | | | 2 |
| Totals | | 2 | | 2 | 1 | | 1 | | 4 |





Active Regular Group Members Who Became Age & Service Retirees During Calendar Year 2020 (Retirement with Benefit Beginning Immediately)

| | Male | |
|-----------------|-------------|----------|
| Age | Retirements | Exposure |
| Under 55 | 8 | 8 |
| 55 | 23 | 76 |
| 56 | 20 | 82 |
| 57 | 18 | 80 |
| 58 | 28 | 121 |
| 59 | 20 | 140 |
| 60 | 116 | 1,156 |
| 61 | 118 | 1,001 |
| 62 | 164 | 975 |
| 63 | 134 | 887 |
| 64 | 105 | 748 |
| 65 | 170 | 632 |
| 66 | 156 | 527 |
| 67 | 111 | 406 |
| 68 | 73 | 355 |
| 69 | 59 | 257 |
| 70 | 52 | 219 |
| 71 | 35 | 152 |
| 72 | 30 | 122 |
| 73 | 21 | 129 |
| 74 | 25 | 103 |
| 75 & Up | 110 | 414 |
| Total (55 & Up) | 1,588 | 8,582 |
| Average Rate: | 0.1850 | |

| Female | | | | | |
|-----------------|-------------|----------|--|--|--|
| Age | Retirements | Exposure | | | |
| Under 55 | 15 | 15 | | | |
| 55 | 10 | 33 | | | |
| 56 | 17 | 50 | | | |
| 57 | 5 | 47 | | | |
| 58 | 12 | 82 | | | |
| 59 | 16 | 82 | | | |
| 60 | 256 | 2,601 | | | |
| 61 | 262 | 2,449 | | | |
| 62 | 329 | 2,250 | | | |
| 63 | 345 | 2,117 | | | |
| 64 | 265 | 1,834 | | | |
| 65 | 453 | 1,537 | | | |
| 66 | 382 | 1,149 | | | |
| 67 | 201 | 731 | | | |
| 68 | 131 | 567 | | | |
| 69 | 122 | 495 | | | |
| 70 | 81 | 312 | | | |
| 71 | 62 | 275 | | | |
| 72 | 49 | 225 | | | |
| 73 | 43 | 184 | | | |
| 74 | 39 | 138 | | | |
| 75 & Up | 110 | 432 | | | |
| Total (55 & Up) | 3,190 | 17,590 | | | |
| Average Rate: | 0.1814 | | | | |

Active Regular Group Members Who Became Early Service Retirees During Calendar Year 2020

| Male | | | | | |
|---------------|-------------|----------|--|--|--|
| Age | Retirements | Exposure | | | |
| 55 | 67 | 1,029 | | | |
| 56 | 56 | 1,078 | | | |
| 57 | 37 | 1,105 | | | |
| 58 | 69 | 1,054 | | | |
| 59 | 66 | 1,040 | | | |
| Total | 295 | 5,306 | | | |
| Average Rate: | 0.0556 | | | | |

| Female | | | | | |
|---------------|-------------|----------|--|--|--|
| Age | Retirements | Exposure | | | |
| 55 | 128 | 2,231 | | | |
| 56 | 120 | 2,360 | | | |
| 57 | 110 | 2,383 | | | |
| 58 | 145 | 2,351 | | | |
| 59 | 137 | 2,505 | | | |
| Total | 640 | 11,830 | | | |
| Average Rate: | 0.0541 | | | | |



Active SLEP Group Members Who Became Age & Service Retirees During Calendar Year 2020

(Retirement with Benefit Beginning Immediately)

| Male | | | | | |
|-----------------|-------------|----------|--|--|--|
| Age | Retirements | Exposure | | | |
| | | | | | |
| Under 50 | - | - | | | |
| 50 | 30 | 84 | | | |
| 51 | 22 | 67 | | | |
| 52 | 12 | 65 | | | |
| 53 | 9 | 33 | | | |
| 54 | 6 | 38 | | | |
| 55 | 4 | 22 | | | |
| 56 | 6 | 24 | | | |
| 57 | 2 | 18 | | | |
| 58 | 2 | 10 | | | |
| 59 | 5 | 15 | | | |
| 60 | 4 | 23 | | | |
| 61 | 1 | 22 | | | |
| 62 | 2 | 12 | | | |
| 63 | 1 | 8 | | | |
| 64 | 1 | 6 | | | |
| 65 | 4 | 11 | | | |
| 66 | 3 | 10 | | | |
| 67 | - | 8 | | | |
| 68 | 1 | 5 | | | |
| 69 | - | 1 | | | |
| 70 | 1 | 2 | | | |
| 71 | 1 | 2 | | | |
| 72 | - | - | | | |
| 73 | - | 1 | | | |
| 74 | - | - | | | |
| 75 & Up | - | 1 | | | |
| Total (50 & Up) | 117 | 488 | | | |
| Average Rate: | 0.2398 | | | | |

| Female | | | | | |
|-----------------|-------------|----------|--|--|--|
| Age | Retirements | Exposure | | | |
| | | | | | |
| Under 50 | - | - | | | |
| 50 | 2 | 10 | | | |
| 51 | 2 | 8 | | | |
| 52 | 3 | 8 | | | |
| 53 | 2 | 6 | | | |
| 54 | 1 | 5 | | | |
| 55 | 1 | 3 | | | |
| 56 | 1 | 6 | | | |
| 57 | 2 | 3 | | | |
| 58 | - | 5 | | | |
| 59 | 3 | 3 | | | |
| 60 | - | 3 | | | |
| 61 | 2 | 6 | | | |
| 62 | - | 3 | | | |
| 63 | - | - | | | |
| 64 | 2 | 6 | | | |
| 65 | 1 | 1 | | | |
| 66 | - | 1 | | | |
| 67 | 1 | 2 | | | |
| 68 | - | - | | | |
| 69 | - | - | | | |
| 70 | - | 1 | | | |
| 71 | - | - | | | |
| 72 | - | - | | | |
| 73 | - | - | | | |
| 74 | - | - | | | |
| 75 & Up | - | - | | | |
| Total (50 & Up) | 23 | 80 | | | |
| Average Rate: | 0.2875 | | | | |



Active ECO Group Members Who Became Age & Service Retirees During Calendar Year 2020

(Retirement with Benefit Beginning Immediately)

| | Male | | | | | |
|-----------------|-------------|----------|--|--|--|--|
| Age | Retirements | Exposure | | | | |
| | | | | | | |
| Under 55 | - | - | | | | |
| 55 | - | 1 | | | | |
| 56 | - | - | | | | |
| 57 | - | 2 | | | | |
| 58 | 1 | 5 | | | | |
| 59 | - | 3 | | | | |
| 60 | - | - | | | | |
| 61 | - | 2 | | | | |
| 62 | 2 | 3 | | | | |
| 63 | - | 3 | | | | |
| 64 | 1 | 1 | | | | |
| 65 | - | 2 | | | | |
| 66 | 1 | 5 | | | | |
| 67 | - | 1 | | | | |
| 68 | - | - | | | | |
| 69 | - | - | | | | |
| 70 | - | 2 | | | | |
| 71 | - | 2 | | | | |
| 72 | - | 1 | | | | |
| 73 | - | - | | | | |
| 74 | - | - | | | | |
| 75 & Up | - | - | | | | |
| Total (55 & Up) | 5 | 33 | | | | |
| Average Rate: | 0.1515 | | | | | |

| Female | | | | | |
|-----------------|-------------|----------|--|--|--|
| Age | Retirements | Exposure | | | |
| | | | | | |
| Under 55 | - | - | | | |
| 55 | - | 4 | | | |
| 56 | - | 1 | | | |
| 57 | 1 | 3 | | | |
| 58 | - | 1 | | | |
| 59 | - | 2 | | | |
| 60 | - | 1 | | | |
| 61 | - | - | | | |
| 62 | 1 | 4 | | | |
| 63 | - | 3 | | | |
| 64 | - | 2 | | | |
| 65 | - | - | | | |
| 66 | - | - | | | |
| 67 | - | - | | | |
| 68 | - | 1 | | | |
| 69 | - | 1 | | | |
| 70 | - | - | | | |
| 71 | - | - | | | |
| 72 | - | - | | | |
| 73 | - | - | | | |
| 74 | - | - | | | |
| 75 & Up | - | 1 | | | |
| Total (55 & Up) | 2 | 24 | | | |
| Average Rate: | 0.0833 | | | | |



Active ECO SLEP Group Members Who Became Age & Service Retirees During Calendar Year 2020 (Retirement with Benefit Beginning Immediately)

| | Male | | | | | |
|-----------------|-------------|----------|--|--|--|--|
| Age | Retirements | Exposure | | | | |
| | | | | | | |
| Under 50 | - | - | | | | |
| 50 | - | - | | | | |
| 51 | - | - | | | | |
| 52 | - | - | | | | |
| 53 | 1 | - | | | | |
| 54 | - | - | | | | |
| 55 | - | - | | | | |
| 56 | - | - | | | | |
| 57 | - | - | | | | |
| 58 | - | - | | | | |
| 59 | - | - | | | | |
| 60 | - | - | | | | |
| 61 | - | - | | | | |
| 62 | - | - | | | | |
| 63 | - | - | | | | |
| 64 | - | 1 | | | | |
| 65 | - | - | | | | |
| 66 | - | - | | | | |
| 67 | - | - | | | | |
| 68 | - | - | | | | |
| 69 | - | 2 | | | | |
| 70 | - | - | | | | |
| 71 | - | - | | | | |
| 72 | - | - | | | | |
| 73 | - | - | | | | |
| 74 | - | - | | | | |
| 75 & Up | <u> </u> | | | | | |
| Total (50 & Up) | 1 | 3 | | | | |
| Average Rate: | 0.3333 | | | | | |

| Female | | |
|-----------------|-------------|----------|
| Age | Retirements | Exposure |
| | | |
| Under 50 | - | - |
| 50 | - | - |
| 51 | - | - |
| 52 | - | - |
| 53 | - | - |
| 54 | - | - |
| 55 | - | - |
| 56 | - | - |
| 57 | - | - |
| 58 | - | - |
| 59 | - | - |
| 60 | - | - |
| 61 | - | - |
| 62 | - | - |
| 63 | - | - |
| 64 | - | - |
| 65 | - | - |
| 66 | - | - |
| 67 | - | - |
| 68 | - | - |
| 69 | - | - |
| 70 | - | - |
| 71 | - | - |
| 72 | - | - |
| 73 | - | - |
| 74 | - | - |
| 75 & Up | - | - |
| Total (50 & Up) | - | - |
| Average Rate: | - | |





Regular Group Members Who Became Disability Retirees During Calendar Year 2020

| Male | | |
|---------------|---------------|----------|
| Age | Disabilities* | Exposure |
| | | |
| Under 20 | - | 112 |
| 20-24 | 2 | 2,111 |
| 25-29 | 2 | 4,955 |
| 30-34 | 4 | 5,671 |
| 35-39 | 5 | 6,199 |
| 40-44 | 12 | 6,291 |
| 45-49 | 11 | 6,452 |
| 50-54 | 30 | 7,522 |
| 55-59 | 35 | 8,784 |
| 60-64 | 31 | 7,500 |
| 65-69 | 14 | 3,843 |
| 70-74 | - | 1,431 |
| 75 and Over | - | 738 |
| Totals | 146 | 61,609 |
| Average Rate: | 0.0024 | |

| Female | | |
|---------------|---------------|----------|
| Age | Disabilities* | Exposure |
| | | |
| Under 20 | - | 87 |
| 20-24 | 2 | 2,752 |
| 25-29 | 7 | 6,940 |
| 30-34 | 7 | 8,143 |
| 35-39 | 8 | 9,858 |
| 40-44 | 5 | 11,634 |
| 45-49 | 18 | 13,343 |
| 50-54 | 40 | 16,399 |
| 55-59 | 45 | 18,277 |
| 60-64 | 34 | 15,306 |
| 65-69 | 9 | 6,163 |
| 70-74 | 1 | 1,755 |
| 75 and Over | 1 | 633 |
| Totals | 177 | 111,290 |
| Average Rate: | 0.0016 | |

^{*} The numbers shown above may be overstated due to inclusion of temporary disability cases. Actual numbers may vary once the permanent cases have been determined.



SLEP Group Members Who Became Disability Retirees During Calendar Year 2020

| Male | | |
|---------------|---------------|----------|
| Age | Disabilities* | Exposure |
| | | |
| Under 20 | - | - |
| 20-24 | - | 69 |
| 25-29 | - | 387 |
| 30-34 | - | 459 |
| 35-39 | 2 | 600 |
| 40-44 | 3 | 602 |
| 45-49 | 1 | 622 |
| 50-54 | 2 | 483 |
| 55-59 | 1 | 186 |
| 60-64 | 1 | 98 |
| 65-69 | - | 43 |
| 70-74 | - | 1 |
| 75 and Over | - | 1 |
| Totals | 10 | 3,551 |
| Average Rate: | 0.0028 | |

| Female | | |
|---------------|---------------|----------|
| Age | Disabilities* | Exposure |
| | | |
| Under 20 | - | - |
| 20-24 | - | 9 |
| 25-29 | - | 50 |
| 30-34 | - | 62 |
| 35-39 | - | 97 |
| 40-44 | 2 | 102 |
| 45-49 | - | 107 |
| 50-54 | - | 67 |
| 55-59 | - | 42 |
| 60-64 | 1 | 20 |
| 65-69 | - | 4 |
| 70-74 | - | - |
| 75 and Over | - | - |
| Totals | 3 | 560 |
| Average Rate: | 0.0054 | |

^{*} The numbers shown above may be overstated due to inclusion of temporary disability cases. Actual numbers may vary once the permanent cases have been determined.



ECO Group Members Who Became Disability Retirees During Calendar Year 2020

| Male | | |
|---------------|--------------|----------|
| Age | Disabilities | Exposure |
| | | |
| Under 20 | - | - |
| 20-24 | - | - |
| 25-29 | - | - |
| 30-34 | - | - |
| 35-39 | - | - |
| 40-44 | - | 4 |
| 45-49 | - | 3 |
| 50-54 | - | 13 |
| 55-59 | - | 13 |
| 60-64 | - | 10 |
| 65-69 | - | 8 |
| 70-74 | - | 5 |
| 75 and Over | - | - |
| Totals | - | 56 |
| Average Rate: | - | |

| Female | | |
|---------------|--------------|----------|
| Age | Disabilities | Exposure |
| | | |
| Under 20 | - | - |
| 20-24 | - | - |
| 25-29 | - | - |
| 30-34 | - | - |
| 35-39 | - | - |
| 40-44 | - | 1 |
| 45-49 | - | 3 |
| 50-54 | - | 4 |
| 55-59 | - | 11 |
| 60-64 | - | 10 |
| 65-69 | - | 2 |
| 70-74 | - | - |
| 75 and Over | - | 1 |
| Totals | - | 32 |
| Average Rate: | - | |



ECO SLEP Members Who Became Disability Retirees During Calendar Year 2020

| Male | | |
|---------------|--------------|----------|
| Age | Disabilities | Exposure |
| | | |
| Under 20 | - | - |
| 20-24 | - | - |
| 25-29 | - | - |
| 30-34 | - | - |
| 35-39 | - | - |
| 40-44 | - | - |
| 45-49 | - | - |
| 50-54 | - | 2 |
| 55-59 | - | - |
| 60-64 | - | 1 |
| 65-69 | - | 2 |
| 70-74 | - | - |
| 75 and Over | - | - |
| Totals | - | 5 |
| Average Rate: | - | |

| Female | | |
|---------------|--------------|----------|
| Age | Disabilities | Exposure |
| | | |
| Under 20 | - | - |
| 20-24 | - | - |
| 25-29 | - | - |
| 30-34 | - | - |
| 35-39 | - | - |
| 40-44 | - | - |
| 45-49 | - | - |
| 50-54 | - | - |
| 55-59 | - | - |
| 60-64 | - | - |
| 65-69 | - | - |
| 70-74 | - | - |
| 75 and Over | - | - |
| Totals | - | - |
| Average Rate: | - | |





Regular Group Members Who Left Active Status During Calendar Year 2020 with Eight or More Years of Service

| Male | | |
|---------------|-------------|----------|
| Age | Withdrawals | Exposure |
| | | |
| 25-29 | 8 | 124 |
| 30-34 | 59 | 1,212 |
| 35-39 | 141 | 2,880 |
| 40-44 | 135 | 3,642 |
| 45-49 | 154 | 4,113 |
| 50-54 | 144 | 5,139 |
| 55 & Over | 297 | 297 |
| Total | 938 | 17,407 |
| Average Rate: | 0.0539 | |

| Female | | |
|---------------|-------------|----------|
| Age | Withdrawals | Exposure |
| | | |
| 25-29 | 9 | 73 |
| 30-34 | 98 | 1,071 |
| 35-39 | 198 | 2,852 |
| 40-44 | 260 | 4,253 |
| 45-49 | 332 | 5,950 |
| 50-54 | 461 | 9,310 |
| 55 & Over | 756 | 756 |
| Total | 2,114 | 24,265 |
| Average Rate: | 0.0871 | |



SLEP Group Members Who Left Active Status During Calendar Year 2020 with Seven or More Years of Service

| Male | | |
|---------------|-------------|----------|
| Age | Withdrawals | Exposure |
| | | |
| 25-29 | 1 | 13 |
| 30-34 | 6 | 140 |
| 35-39 | 12 | 432 |
| 40-44 | 10 | 503 |
| 45-49 | 14 | 583 |
| 50-54 | 4 | 152 |
| 55 & Over | 3 | 69 |
| Total | 50 | 1,892 |
| Average Rate: | 0.0264 | |

| Female | | |
|---------------|-------------|----------|
| Age | Withdrawals | Exposure |
| | | |
| 25-29 | - | 3 |
| 30-34 | 2 | 24 |
| 35-39 | 1 | 65 |
| 40-44 | 1 | 90 |
| 45-49 | 3 | 100 |
| 50-54 | 2 | 24 |
| 55 & Over | 1 | 21 |
| Total | 10 | 327 |
| Average Rate: | 0.0306 | |



ECO Group Members Who Left Active Status During Calendar Year 2020 with Eight or More Years of Service

| Male | | |
|---------------|-------------|----------|
| Age | Withdrawals | Exposure |
| | | |
| 25-29 | - | - |
| 30-34 | - | - |
| 35-39 | - | - |
| 40-44 | - | 4 |
| 45-49 | - | 3 |
| 50-54 | 3 | 13 |
| 55 & Over | 8 | 8 |
| Total | 11 | 28 |
| Average Rate: | 0.3929 | |

| Female | | |
|---------------|-------------|----------|
| Age | Withdrawals | Exposure |
| | | |
| 25-29 | - | - |
| 30-34 | - | - |
| 35-39 | - | - |
| 40-44 | - | 1 |
| 45-49 | - | 3 |
| 50-54 | - | 4 |
| 55 & Over | 4 | 4 |
| Total | 4 | 12 |
| Average Rate: | 0.3333 | |



ECO SLEP Group Members Who Left Active Status During Calendar Year 2020 with Seven or More Years of Service

| Male | | |
|---------------|-------------|----------|
| Age | Withdrawals | Exposure |
| | | |
| 25-29 | - | - |
| 30-34 | - | - |
| 35-39 | - | - |
| 40-44 | - | - |
| 45-49 | - | - |
| 50-54 | - | 2 |
| 55 & Over | - | - |
| Total | - | 2 |
| Average Rate: | - | |

| Female | | |
|---------------|-------------|----------|
| Age | Withdrawals | Exposure |
| | | |
| 25-29 | - | - |
| 30-34 | - | - |
| 35-39 | - | - |
| 40-44 | - | - |
| 45-49 | - | - |
| 50-54 | - | - |
| 55 & Over | - | - |
| Total | - | - |
| Average Rate: | - | |



Regular Group Members Who Left Active Status with No Monthly Benefit During Calendar Year 2020 (Non-Vested Separations)

| Male | | |
|-------------------|-------------|------------|
| Service | | |
| Index | Withdrawals | Exposure |
| | | |
| 1 | 863 | 3,469 |
| 2 | 1,155 | 5,952 |
| 3 | 699 | 4,703 |
| 4 | 500 | 3,848 |
| 5 | 406 | 3,551 |
| 6 | 330 | 3,212 |
| 7 | 234 | 2,819 |
| 8 | 193 | 2,260 |
| 9 | 123 | 1,945 |
| 10 | 104 | 1,346 |
| 11 | 77 | 942 |
| 12 | 87 | 1,200 |
| 13 | 75 | 1,227 |
| 14 | 59 | 1,147 |
| 15 | 56 | 1,094 |
| 16 | 55 | 904 |
| 17 | 35 | 776 |
| 18 | 31 | 781 |
| 19 | 26 | 797 |
| 20 | 28 | 809 |
| 21 | 21 | 831 |
| 22 | 22 | 685 |
| 23 | 21 | 567 |
| 24 | 22 | 471 |
| 25 26 | 16 | 432 |
| 26 | 11 | 341 |
| 27 | 9 | 289 |
| 28 29 | 6 | 236 |
| 30 and Over | 9 45 | 221 847 |
| | 45 | 047 |
| Totals (Less Than | | |
| or Equal to 8 | 4,380 | 29,814 |
| Years of Service) | | |
| Average Rate | 0.1469 | |

| Female | | |
|---|-------------|------------|
| Service | | |
| Index | Withdrawals | Exposure |
| | | |
| 1 | 2,105 | 7,570 |
| 2 | 2,668 | 12,196 |
| 3 | 1,644 | 9,297 |
| 4 | 1,112 | 7,471 |
| 5 | 814 | 6,427 |
| 6 | 651 | 5,703 |
| 7 | 439 | 4,796 |
| 8 | 345 | 3,825 |
| 9 | 281 | 2,981 |
| 10 | 223 | 2,162 |
| 11 | 196 | 1,709 |
| 12 | 204 | 1,904 |
| 13 | 183 | 2,175 |
| 14 | 172 | 1,960 |
| 15 | 148 | 1,614 |
| 16 | 111 | 1,313 |
| 17 | 83 | 1,118 |
| 18 | 73 | 930 |
| 19 | 73 62 | 1,083 |
| 20 21 | 62 45 | 1,061 |
| | 45 46 | 920 |
| 22 23 | 46 52 | 712 584 |
| 24 | 20 | 458 |
| 24 25 | 20 27 | 363 |
| 26 | 21 | 316 |
| 27 | 15 | 247 |
| 28 | 11 | 199 |
| 29 | 7 | 161 |
| 30 and Over | , 61 | 591 |
| Totals (Less Than or Equal to 8 Years of Service) | 9,778 | 57,285 |
| Average Rate | 0.1707 | |



SLEP Group Members Who Left Active Status with No Monthly Benefit During Calendar Year 2020 (Non-Vested Separations)

| Male | | |
|----------------------|-------------|----------|
| Service | | |
| Index | Withdrawals | Exposure |
| | | |
| 1 | 27 | 133 |
| 2 | 33 | 257 |
| 3 | 19 | 184 |
| 4 | 12 | 156 |
| 5 | 17 | 153 |
| 6 | 10 | 136 |
| 7 | 4 | 139 |
| 8 | 6 | 115 |
| 9 | 3 | 102 |
| 10 | 6 | 93 |
| 11 | 3 | 76 |
| 12 | 5 | 121 |
| 13 | - | 158 |
| 14 | 6 | 119 |
| 15 | 2 | 143 |
| 16 | 1 | 130 |
| 17 | 1 | 126 |
| 18 | 1 | 110 |
| 19 | 1 | 117 |
| 20 | 1 | 98 |
| 21 | 3 | 62 |
| 22 | 2 | 79 |
| 23 | 3 | 72 |
| 24 | 1 | 60 |
| 25 | - | 45 |
| 26 | - | 39 |
| 27 | 2 | 22 |
| 28 | 2 | 9 |
| 29 | 1 | 8 |
| 30 and Over | - | 3 |
| Totals (Less Than or | | |
| Equal to 7 Years of | 122 | 1,158 |
| Service) | | |
| Average Rate | 0.1054 | |

| Female | | |
|----------------------|-------------|----------|
| Service | | |
| Index | Withdrawals | Exposure |
| | | |
| 1 | 1 | 14 |
| 2 | 6 | 34 |
| 3 | - | 22 |
| 4 | - | 21 |
| 5 | 1 | 21 |
| 6 | 2 | 19 |
| 7 | 1 | 22 |
| 8 | - | 13 |
| 9 | 2 | 22 |
| 10 | 1 | 17 |
| 11 | - | 19 |
| 12 | 2 | 22 |
| 13 | 1 | 28 |
| 14 | - | 23 |
| 15 | - | 15 |
| 16 | - | 22 |
| 17 | - | 25 |
| 18 | - | 18 |
| 19 20 | 1 | 26 |
| 20 21 | 2 | 18 17 |
| 21 | 1 | 17 |
| 23 | 1 | 9 |
| 25 24 | - | 8 |
| 25 | - | 5 |
| 26 | _ | 6 |
| 27 | _ | 2 |
| 28 | _ | _ |
| 29 | _ | _ |
| 30 and Over | _ | 1 |
| Totals (Less Than or | | |
| Equal to 7 Years of | 11 | 153 |
| Service) | ** | 133 |
| Average Rate | 0.0719 | |



ECO Group Members Who Left Active Status with No Monthly Benefit During Calendar Year 2020 (Non-Vested Separations)

| Male | | |
|----------------------|-------------|----------|
| Service | | |
| Index | Withdrawals | Exposure |
| | | |
| 1 | - | - |
| 2 | 1 | 1 |
| 3 | - | - |
| 4 | - | - |
| 5 | - | 1 |
| 6 | - | 1 |
| 7 | - | - |
| 8 | - | - |
| 9 | - | - |
| 10 | - | 1 |
| 11 | - | - |
| 12 | 3 | 3 |
| 13 | - | 1 |
| 14 | 1 | 3 |
| 15 | - | 1 |
| 16 | 3 | 1 |
| 17 | - | - |
| 18 | - | - |
| 19 | - | 1 |
| 20 | 1 | - |
| 21 | 1 | 4 |
| 22 | - | - |
| 23 | 2 | - |
| 24 | - | - |
| 25 | - | 1 |
| 26 | - | 2 |
| 27 | - | - |
| 28 | - | 2 |
| 29 | - | - |
| 30 and Over | - | - |
| Totals (Less Than or | | |
| Equal to 8 Years of | 1 | 3 |
| Service) | | |
| Average Rate | 0.3333 | |

| Service Index Withdrawals Exposure 1 - - 2 - - 3 - - 4 - - 5 - - 6 - - 7 - - 8 - - 9 - - 10 - 2 11 - - 12 1 - 13 1 2 14 - - 15 - - 16 - - 17 - - 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 | Female | | |
|---|--------------|-------------|----------|
| 1 | Service | | |
| 2 | Index | Withdrawals | Exposure |
| 2 | | | |
| 3 | | - | - |
| 4 - - 5 - - 6 - - 7 - - 8 - - 9 - - 10 - 2 11 - - 12 - 1 13 1 2 14 - - 15 - - 16 - - 17 - - 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 - - 27 - - 28 1 - 29 - - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) - - </td <td></td> <td>-</td> <td>-</td> | | - | - |
| 5 - - 6 - - 7 - - 8 - - 9 - - 10 - 2 11 - - 12 - 1 13 1 2 14 - - 15 - - 16 - - 17 - - 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 - - 27 - - 28 1 - 29 - - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) - - | | - | - |
| 6 | | - | - |
| 7 - - 9 - - 10 - 2 11 - - 12 - 1 13 1 2 14 - - 15 - - 16 - - 17 - - 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 - - 27 - - 28 1 - 29 - - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) - - | | - | - |
| 8 - - 9 - - 10 - 2 11 - - 12 - 1 13 1 2 14 - - 15 - - 16 - - 17 - - 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 - - 27 - - 28 1 - 29 - - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) - - | | - | - |
| 9 | | - | - |
| 10 - 2 11 - - 12 - 1 13 1 2 14 - - 15 - - 16 - - 17 - - 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 - - 27 - - 28 1 - 29 - - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) - - | | - | - |
| 11 - - 12 - 1 13 1 2 14 - - 15 - - 16 - - 17 - - 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 - - 27 - - 28 1 - 29 - - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) - - | | - | - |
| 12 | | - | |
| 13 1 2 14 - - 15 - - 16 - - 17 - - 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 - - 27 - - 28 1 - 29 - - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) - - | | - | |
| 14 - - 15 - - 16 - - 17 - - 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 - - 27 - - 28 1 - 29 - - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) - - | | - | |
| 15 | | 1 | 2 |
| 16 - - 17 - - 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 - - 27 - - 28 1 - 29 - - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) - - | | = | - |
| 17 - - 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 - - 27 - - 28 1 - 29 - - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) - - | | - | - |
| 18 - 2 19 - - 20 - 1 21 - - 22 - - 23 - - 24 - - 25 1 - 26 - - 27 - - 28 1 - 29 - - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) - - | | - | - |
| 19 1 20 - 1 21 22 23 24 25 1 26 27 28 1 - 29 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) | | - | |
| 20 - 1 21 22 23 24 25 1 26 27 28 1 - 29 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) | | - | |
| 21 | | - | |
| 22 | | - | |
| 23 | | - | - |
| 24 | | - | - |
| 25 1 - 26 - 27 - 28 1 - 29 - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) | | _ | _ |
| 26 | | 1 | _ |
| 27 | | _ | _ |
| 28 1 - 29 - 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) | | _ | _ |
| 29 | | 1 | |
| 30 and Over 1 - Totals (Less Than or Equal to 8 Years of Service) | | _ | _ |
| Totals (Less Than or Equal to 8 Years of Service) | | 1 | _ |
| Equal to 8 Years of Service) - | | <u> </u> | |
| Service) | | _ | - |
| | • | | |
| Average Rate 0.0000 | Average Rate | 0.0000 | |



ECO SLEP Group Members Who Left Active Status with No Monthly Benefit During Calendar Year 2020 (Non-Vested Separations)

| Male | | |
|----------------------|-------------|----------|
| Service | | |
| Index | Withdrawals | Exposure |
| | | |
| 1 | - | - |
| 2 | - | - |
| 3 | - | - |
| 4 | - | - |
| 5 | - | - |
| 6 | - | - |
| 7 | - | - |
| 8 | - | - |
| 9 | - | - |
| 10 | - | 1 |
| 11 | - | - |
| 12 | - | - |
| 13 | - | - |
| 14 | - | 1 |
| 15 | - | - |
| 16 | - | - |
| 17 | - | - |
| 18 | - | - |
| 19 | - | - |
| 20 | - | - |
| 21 | - | - |
| 22 | - | - |
| 23 | - | - |
| 24 | - | - |
| 25 | - | - |
| 26 | = | - |
| 27 | - | - |
| 28 | - | - |
| 29 | - | - |
| 30 and Over | - | - |
| Totals (Less Than or | | |
| Equal to 7 Years of | - | - |
| Service) | 0.0000 | |
| Average Rate | 0.0000 | |

| Female | | | |
|----------------------|-------------|----------|--|
| Service | | | |
| Index | Withdrawals | Exposure | |
| | | | |
| 1 | - | - | |
| 2 | - | - | |
| 3 | - | - | |
| 4 | - | - | |
| 5 | - | - | |
| 6 | - | - | |
| 7 | - | - | |
| 8 | - | - | |
| 9 | - | - | |
| 10 | - | - | |
| 11 | - | - | |
| 12 | - | - | |
| 13 | - | - | |
| 14 | - | - | |
| 15 | - | - | |
| 16 | - | - | |
| 17 | - | - | |
| 18 | - | - | |
| 19 | - | - | |
| 20 | - | - | |
| 21 | - | - | |
| 22 | - | - | |
| 23 | - | - | |
| 24 | - | - | |
| 25 | - | - | |
| 26 | - | - | |
| 27 | - | - | |
| 28 | - | - | |
| 29 | - | - | |
| 30 and Over | - | - | |
| Totals (Less Than or | | | |
| Equal to 7 Years of | - | - | |
| Service) | | | |
| Average Rate | 0.0000 | | |





Active Members Deaths During Calendar Year 2020

| Male | | | |
|---------------|--------|----------|--|
| Age | Deaths | Exposure | |
| | | | |
| Under 20 | - | 112 | |
| 20-24 | 1 | 2,180 | |
| 25-29 | 2 | 5,342 | |
| 30-34 | 3 | 6,130 | |
| 35-39 | 1 | 6,799 | |
| 40-44 | 3 | 6,897 | |
| 45-49 | 6 | 7,077 | |
| 50-54 | 9 | 8,020 | |
| 55-59 | 13 | 8,983 | |
| 60-64 | 17 | 7,609 | |
| 65-69 | 20 | 3,896 | |
| 70-74 | 5 | 1,437 | |
| 75 and Over | 8 | 739 | |
| Totals | 88 | 65,221 | |
| Average Rate: | 0.0013 | | |

| Female | | | |
|---------------|--------|----------|--|
| Age | Deaths | Exposure | |
| | | | |
| Under 20 | - | 87 | |
| 20-24 | - | 2,761 | |
| 25-29 | 1 | 6,990 | |
| 30-34 | - | 8,205 | |
| 35-39 | 5 | 9,955 | |
| 40-44 | 3 | 11,737 | |
| 45-49 | 5 | 13,453 | |
| 50-54 | 12 | 16,470 | |
| 55-59 | 9 | 18,330 | |
| 60-64 | 14 | 15,336 | |
| 65-69 | 9 | 6,169 | |
| 70-74 | 4 | 1,755 | |
| 75 and Over | 3 | 634 | |
| Totals | 65 | 111,882 | |
| Average Rate: | 0.0006 | | |



Retired Members Deaths During Calendar Year 2020

| Male | | | |
|-----------------------|--------|----------|--|
| Age | Deaths | Exposure | |
| | | | |
| Under 55 | 4 | 450 | |
| 55-59 | 32 | 3,128 | |
| 60-64 | 89 | 7,257 | |
| 65-69 | 182 | 10,038 | |
| 70-74 | 240 | 8,793 | |
| 75-79 | 265 | 5,657 | |
| 80-84 | 308 | 3,651 | |
| 85-89 | 287 | 1,971 | |
| 90-94 | 200 | 874 | |
| 95-99 | 62 | 186 | |
| 100-104 | 11 | 19 | |
| 105 & Over | 2 | 2 | |
| Totals | 1,682 | 42,026 | |
| Actual Average Rate | 0.0400 | | |
| Expected Average Rate | 0.0350 | | |

| Female | | | |
|-----------------------|--------|----------|--|
| Age | Deaths | Exposure | |
| | | | |
| Under 55 | 1 | 224 | |
| 55-59 | 26 | 5,126 | |
| 60-64 | 88 | 13,261 | |
| 65-69 | 160 | 20,427 | |
| 70-74 | 227 | 18,051 | |
| 75-79 | 346 | 12,340 | |
| 80-84 | 409 | 8,003 | |
| 85-89 | 465 | 4,926 | |
| 90-94 | 435 | 2,635 | |
| 95-99 | 231 | 809 | |
| 100-104 | 53 | 137 | |
| 105 & Over | 2 | 5 | |
| Totals | 2,443 | 85,944 | |
| Actual Average Rate | 0.0284 | | |
| Expected Average Rate | 0.0262 | | |





Salary Increases by Age During Calendar Year 2020*

| Age Group | Pay Increase During the Next Year | | |
|-----------|-----------------------------------|---------|---------|
| Beginning | | | |
| of Year | Regular | SLEP | ECO |
| 25-29 | 7.37 % | 14.40 % | 0.00 % |
| 30-34 | 4.84 % | 10.10 % | 0.00 % |
| 35-39 | 5.10 % | 6.93 % | 0.00 % |
| 40-44 | 4.89 % | 4.92 % | 0.00 % |
| 45-49 | 4.43 % | 4.51 % | 1.05 % |
| 50-54 | 4.22 % | 4.23 % | 1.41 % |
| 55-59 | 3.77 % | 4.14 % | 2.03 % |
| 60-64 | 3.25 % | 5.27 % | 2.63 % |
| 65-69 | 2.98 % | 1.71 % | 2.56 % |
| 70-74 | 2.49 % | 6.59 % | (0.48)% |
| 75 & Over | 1.31 % | 1.21 % | 3.05 % |
| Averages: | | | |
| Expected | 3.17 % | 4.16 % | 3.08 % |
| Actual | 3.78 % | 5.31 % | 1.95 % |

^{*} Members active both at the beginning and end of year and have 5 or more years of service at the beginning of the year for Regular and ECO groups and 0 or more years of service for SLEP and ECO SLEP groups (increases for SLEP groups are correlated primarily with service).



Salary Increases by Years of Service During Calendar Year 2020

| Service | Pay Increase During the Next Year | | |
|-----------|-----------------------------------|---------|---------|
| Index | Regular | SLEP | ECO |
| 1 | 15.80 % | 12.65 % | 0.00 % |
| 2 | 9.52 % | 13.66 % | 0.00 % |
| 3 | 6.62 % | 8.07 % | 0.00 % |
| 4 | 5.52 % | 5.68 % | 0.00 % |
| 5 | 5.15 % | 5.27 % | 1.30 % |
| 6 | 4.91 % | 6.30 % | (0.20)% |
| 7 | 4.63 % | 5.61 % | 0.00 % |
| 8 | 4.27 % | 5.02 % | 0.00 % |
| 9 | 4.45 % | 7.66 % | 6.62 % |
| 10 | 4.11 % | 5.44 % | 2.02 % |
| 11 | 4.19 % | 4.50 % | 0.00 % |
| 12 | 3.61 % | 2.64 % | 2.69 % |
| 13 | 4.10 % | 2.96 % | 1.37 % |
| 14 | 3.49 % | 0.68 % | 4.22 % |
| 15 | 3.76 % | 4.63 % | 0.00 % |
| 16 | 3.51 % | 3.96 % | (0.57)% |
| 17 | 3.38 % | 4.02 % | 1.16 % |
| 18 | 3.07 % | 3.29 % | 2.47 % |
| 19 | 3.23 % | 2.88 % | 2.84 % |
| 20 | 3.37 % | 4.27 % | 2.32 % |
| 21 | 3.44 % | 4.45 % | 1.96 % |
| 22 | 3.48 % | 3.91 % | (0.75)% |
| 23 | 3.49 % | 5.44 % | 4.27 % |
| 24 | 3.19 % | 6.45 % | 2.19 % |
| 25 | 3.67 % | 6.97 % | 1.31 % |
| 26 | 3.07 % | 6.61 % | (1.50)% |
| 27 | 3.28 % | 6.60 % | 0.00 % |
| 28 | 3.42 % | 5.13 % | (0.31)% |
| 29 | 3.43 % | 4.85 % | 0.00 % |
| 30 | 3.46 % | 5.86 % | 0.00 % |
| 31 | 3.89 % | 13.84 % | 2.04 % |
| 32 | 3.61 % | 7.30 % | 2.82 % |
| 33 | 3.12 % | 8.67 % | 0.00 % |
| 34 | 3.16 % | 5.56 % | 0.00 % |
| 35 | 4.27 % | 5.27 % | 0.00 % |
| 36 | 3.72 % | 5.08 % | 4.25 % |
| 37 | 3.67 % | 4.44 % | 0.00 % |
| 38 | 3.90 % | 0.00 % | 0.00 % |
| 39 | 2.99 % | 0.00 % | 0.00 % |
| 40 | 3.13 % | 0.27 % | 0.00 % |
| Averages: | | | |
| Expected | 4.02 % | 4.16 % | 3.12 % |
| Actual | 4.86 % | 5.31 % | 1.94 % |





March 18, 2021

Mr. Mark Nannini Chief Financial Officer Illinois Municipal Retirement Fund 2211 South York Road, Suite 500 Oak Brook, Illinois 60523

Dear Mark:

Enclosed are fifteen copies of the Gain/Loss Analysis of Financial Experience Among Active Members during the period of January 1, 2020 to December 31, 2020 for the Illinois Municipal Retirement Fund (IMRF).

Your comments and/or questions will be welcome.

Sincerely,

Francois Pieterse, ASA, FCA, MAAA

FP:ah Enclosures

cc: Audrey Brown-Ryce, IMRF