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April 23, 2025

State of Alaska
The Alaska Retirement Management Board
The Department of Revenue, Treasury Division
The Department of Administration, Division of Retirement and Benefits
P.O. Box 110203
Juneau, AK 99811-0203

Certification of Actuarial Valuation

Dear Members of The Alaska Retirement Management Board, The Department of Revenue, and The Department of Administration,

This report summarizes the annual actuarial valuation results of the State of Alaska Teachers' Retirement System (TRS) as of June 30, 2024 performed by Gallagher Benefit Services, Inc. (Gallagher).

The actuarial valuation is based on financial information provided in the financial statements audited by KPMG LLP, member data provided by the Division of Retirement and Benefits, and medical enrollment data provided by the healthcare claims administrator (Aetna), as summarized in this report. The benefits considered are those delineated in Alaska statutes effective June 30, 2024. The actuary did not verify the data submitted, but did perform tests for consistency and reasonableness.

All costs, liabilities, and other factors under TRS were determined in accordance with generally accepted actuarial principles and procedures. An actuarial cost method is used to measure the actuarial liabilities which we believe is reasonable. Gallagher is solely responsible for the actuarial data and actuarial results presented in this report. This report fully and fairly discloses the actuarial position of TRS as of June 30, 2024.

TRS is funded by Employer, State, and Member Contributions in accordance with the funding policy adopted by the Alaska Retirement Management Board (Board) and as required by Alaska state statutes. The calculations of the Employer and State Contributions are reasonable actuarially determined contributions as defined in Actuarial Standard of Practice No. 4 (ASOP 4), and are consistent with the requirements set out in Alaska Statutes 37.10.220(a)(8). When determining the smoothing period for the actuarial value of assets and the amortization period for the unfunded actuarial accrued liability, the following items were considered: (i) the balance among benefit security, intergenerational equity, and stability of actuarially determined contributions, (ii) the timing and duration of expected benefit payments, and (iii) the nature and frequency of plan amendments.

The funding objective for TRS is to pay required contributions that remain level as a percent of total TRS compensation. The Board has also established a funding policy objective that the required contributions be sufficient to pay the Normal Costs of active plan members, plan expenses, and amortize the Unfunded Actuarial Accrued Liability (UAAL) as a level percentage of total TRS compensation over a closed 25-year period as required by Alaska state statutes. The closed 25-year period was originally established effective June 30, 2014. Effective June 30, 2018, the Board adopted a 25-year layered UAAL amortization method as described in Section 5.2. The UAAL amortization continues to be on a level percent of pay basis. The compensation used to determine required contributions is the total compensation of all active members in TRS, including those hired after July 1, 2006 who are members of the Defined Contribution Retirement

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(DCR) Plan. This objective is currently being met and is projected to continue to be met. Absent future gains/losses and/or changes in actuarial assumptions/methods, actuarially determined contributions are expected to remain level as a percent of pay and the funded status of the pension trust is expected to increase to 100% in FY48 based on the projections in Section 3.9A of this report. Absent future gains/losses and/or changes in actuarial assumptions/methods, the funded status of the healthcare trust is expected to remain above 100%.

The Board and staff of the State of Alaska may use this report for the review of the operations of TRS. Use of this report for any other purpose or by anyone other than the Board or staff of the State of Alaska 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. Because of the risk of misinterpretation of actuarial results, Gallagher recommends requesting its advanced review of any statement to be based on information contained in this report. Gallagher will accept no liability for any such statement made without its prior review.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the actuarial assumptions, changes in assumptions, changes expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. In particular, retiree group benefits models necessarily rely on the use of approximations and estimates and are sensitive to changes in these approximations and estimates. Small variations in these approximations and estimates may lead to significant changes in actuarial measurements. An analysis of the potential range of such future differences is beyond the scope of this valuation.

In our opinion, the actuarial assumptions used are reasonable, taking into account the experience of the plan and reasonable long-term expectations, and represent our best estimate of the anticipated long-term experience under the plan. In our professional judgment, the combined effect of the assumptions is expected to have no significant bias. The actuary performs an analysis of plan experience periodically and recommends changes if, in the opinion of the actuary, assumption changes are needed to more accurately reflect expected future experience. The last full experience analysis was performed for the period July 1, 2017 to June 30, 2021. Based on that experience study, the Board adopted new assumptions effective beginning with the June 30, 2022 valuation to better reflect expected future experience.

Based on our annual analysis of recent claims experience, changes were made to the healthcare per capita claims cost rates effective June 30, 2024 to better reflect expected future healthcare experience. As a result of changes to the Standard Medicare Part D plan under the Inflation Reduction Act, EGWP subsidies are expected to be higher than originally anticipated for 2025 and beyond. EGWP subsidies were updated based on estimates provided by Segal Consulting. Because of the significant increase in the EGWP subsidy for FY25 and beyond due to the Inflation Reduction Act, and uncertainty regarding future subsidy levels, the ARMB has adopted a smoothing of EGWP subsidy estimates over five years. In addition, the prescription drug and EGWP trend assumption was updated to reflect recent survey information indicating higher initial trend rates in part due to the recent higher-than-expected inflationary environment.

A summary of the actuarial assumptions and methods used in this actuarial valuation is shown in Sections 5.2 and 5.3. We certify that the assumptions and methods used for funding purposes, as described in Sections 5.2 and 5.3 of this report, meet the requirements of all applicable Actuarial Standards of Practice.

Actuarial Standards of Practice No. 27 (ASOP 27) and No. 35 (ASOP 35) require the actuary to disclose the information and analysis used to support the actuary's determination that the assumptions selected by the plan sponsor do not significantly conflict with those that, in the actuary's professional judgment, are reasonable for the purpose of the measurement. Gallagher provides advice on reasonable assumptions when performing periodic experience studies. The Board selects the assumptions used, and the signing actuaries review the assumptions annually through discussions with the Board staff and analysis of actuarial experience.

In the case of the Board's selected expected return on assets (EROA), the signing actuaries have used economic information and tools provided by Gallagher's Investments practice. A spreadsheet tool created by this practice converts

averages, standard deviations, and correlations from Gallagher's Capital Market Assumptions that are used for stochastic forecasting into approximate percentile ranges for the arithmetic and geometric average returns. The EROA spreadsheet tool is intended to suggest possible reasonable ranges for the expected return on assets without attempting to predict or select a specific best estimate rate of return. It takes into account the duration of investment and the target allocation of assets in the portfolio to various asset classes.

Based on the actuaries' analysis, including consistency with other assumptions used in the valuation, the percentiles generated by the EROA spreadsheet tool described above, and review of actuarial gain/loss analysis, the signing actuaries believe the assumptions, in their professional judgment, do not significantly conflict with what are reasonable for the purpose of the measurement.

ACFR Information

We have prepared the following information in this report for the Actuarial Section and Statistical Section of the ACFR: (i) member data tables in Section 4; (ii) analysis of financial experience in Section 1.6; (iii) summary of actuarial assumptions in Section 5.3; and (iv) historical information in Section 7.

Governmental Accounting Standards Board (GASB) Statement No. 67 (GASB 67) was effective for TRS beginning with fiscal year ending June 30, 2014, and Statement No. 74 (GASB 74) was effective for TRS beginning with fiscal year ending June 30, 2017. Please see our separate GASB 67 and GASB 74 reports for other information needed for the ACFR.

Risk Information

Actuarial Standard of Practice No. 51 (ASOP 51) applies to actuaries performing funding calculations related to a pension plan. ASOP 51 does not apply to actuaries performing services in connection with other post-employment benefits, such as medical benefits. Accordingly, ASOP 51 does not apply to the healthcare portion of TRS. See Section 6 of this report for further details regarding ASOP 51. Section 6 also contains information on the Low-Default-Risk Obligation Measure (LDROM) required to be disclosed under Actuarial Standard of Practice No. 4 (ASOP 4).

Use of Models

Actuarial Standard of Practice No. 56 (ASOP 56) provides guidance to actuaries performing actuarial services that involve designing, developing, selecting, modifying, using, reviewing, or evaluating models. In addition to the EROA spreadsheet tool disclosed above, Gallagher uses third-party software to perform annual actuarial valuations and projections. The model is intended to calculate the liabilities associated with the provisions of the plan using data and assumptions as of the measurement date under the funding methods specified in this report. Gallagher also uses internally developed models that apply applicable funding methods and policies to the liabilities derived from the third-party software and other inputs, such as plan assets and contributions, to generate many of the exhibits found in this report.

Gallagher maintains an extensive review process in which the results of the liability calculations are checked using detailed sample life output, changes from year to year are summarized by source, and significant deviations from expectations are investigated. Other funding outputs and the internal models are similarly reviewed in detail and at a higher level for accuracy, reasonability, and consistency with prior results. Gallagher also reviews the third-party model when significant changes are made to the software. This review is performed by experts within Gallagher who are familiar with applicable funding methods, as well as the manner in which the model generates its output. If significant changes are made to the internal models, extra checking and review are completed.

Additional models used in valuing health benefits are described later in the report.

This report was prepared under the overall direction of David Kershner, who meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. He is a Fellow of the Society of Actuaries, an Enrolled Actuary, a Member of the American Academy of Actuaries, and a Fellow of the Conference of Consulting Actuaries.

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We are available to discuss this report with you at your convenience. David can be reached at (602) 803-6174 and Brett can be reached at (260) 423-1072.

Respectfully submitted,



David J. Kershner, FSA, EA, MAAA, FCA
Principal



Brett Hunter, ASA, EA, MAAA
Senior Consultant

The undersigned actuary is responsible for all assumptions related to the average annual per capita health claims cost and the health care cost trend rates, and hereby affirms his qualification to render opinions in such matters in accordance with the Qualification Standards of the American Academy of Actuaries. Robert can be reached at (312) 399-9339.



Robert Besenhofer, ASA, MAAA, FCA Director

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The funding method used in this valuation was adopted by the Board in October 2006. Changes in methods were adopted by the Board in January 2019 based on the experience study for the period July 1, 2013 to June 30, 2017. The asset smoothing method used to determine valuation assets was changed effective June 30, 2014.

Benefits valued are those delineated in Alaska State statutes as of the valuation date. Changes in State statutes effective after the valuation date are not taken into consideration in setting the assumptions and methods.

A. Actuarial Cost Method

Liabilities and contributions shown in the report are computed using the Entry Age Normal Actuarial Cost Method, level percent of pay.

Effective June 30, 2018, the Board adopted a layered UAAL amortization method: Layer #1 equals the sum of (i) the UAAL at June 30, 2018 based on the 2017 valuation, plus (ii) the FY18 experience gain/loss. Layer #1 is amortized over the remainder of the 25-year closed period that was originally established in 20141. Layer #2 equals the change in UAAL at June 30, 2018 due to the experience study and EGWP implementation. Layer #2 is amortized over a separate closed 25-year period starting in 2018. Future layers will be created each year based on the difference between actual and expected UAAL occurring that year, and will be amortized over separate closed 25-year periods. The UAAL amortization continues to be on a level percent of pay basis. State statutes allow the contribution rate to be determined on payroll for all members, defined benefit and defined contribution member payroll combined.

Projected pension and postemployment healthcare benefits were determined for all active members. Cost factors designed to produce annual costs as a constant percentage of each member's expected compensation in each year from the assumed entry age to the assumed retirement age were applied to the projected benefits to determine the normal cost (the portion of the total cost of the plan allocated to the current year under the method). The normal cost is determined by summing intermediate results for active members and determining an average normal cost rate which is then related to the total payroll of active members. The actuarial accrued liability for active members (the portion of the total cost of the plan allocated to prior years under the method) was determined as the excess of the actuarial present value of projected benefits over the actuarial present value of future normal costs.

The actuarial accrued liability for retired members and their beneficiaries currently receiving benefits, terminated vested members and disabled members not yet receiving benefits was determined as the actuarial present value of the benefits expected to be paid. No future normal costs are payable for these members.

The actuarial accrued liability under this method at any point in time is the theoretical amount of the fund that would have been accumulated had annual contributions equal to the normal cost been made in prior years (it does not represent the liability for benefits accrued to the valuation date). The unfunded actuarial accrued liability is the excess of the actuarial accrued liability over the actuarial value of plan assets measured on the valuation date.

Under this method, experience gains or losses (i.e., decreases or increases in accrued liabilities attributable to deviations in experience from the actuarial assumptions) adjust the unfunded actuarial accrued liability.

¹ Layer #1 is referred to as "initial amount" in Section 1.2 and 1.3 of the TRS June 30, 2023 Actuarial Valuation Report.

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B. Valuation of Assets

The actuarial asset value was reinitialized to equal Fair Value of Assets as of June 30, 2014. Beginning in FY15, the asset valuation method recognizes 20% of the gain or loss each year, for a period of five years. All assets are valued at fair value. Assets are accounted for on an accrued basis and are taken directly from financial statements audited by KPMG LLP.

C. Valuation of Retiree Medical and Prescription Drug Benefits

This section outlines the detailed methodology used in the internal model developed by Gallagher to calculate the initial per capita claims cost rates for the TRS postemployment healthcare plan. Note that the methodology reflects the results of our annual experience rate update for the period from July 1, 2023 to June 30, 2024.

Base claims cost rates are incurred healthcare costs expressed as a rate per member per year. Ideally, claims cost rates should be derived for each significant component of cost that can be expected to require differing projection assumptions or methods (i.e., medical claims, prescription drug claims, administrative costs, etc.). Separate analysis is limited by the availability and historical credibility of cost and enrollment data for each component of cost. This valuation reflects non-prescription claims separated by Medicare status, including eligibility for free Part A coverage. Prescription costs are analyzed separately as in prior valuations. Administrative costs are assumed in the final per capita claims cost rates used for valuation purposes, as described below. Analysis to date on Medicare Part A coverage is limited since Part A claim data is not available by individual, nor is this status incorporated into historical claim data.

Benefits

Medical, prescription drug, dental, vision and audio coverage is provided through the AlaskaCare Retiree Health Plan and is available to employees of the State and subdivisions who meet retirement criteria based on the retirement plan tier in effect at their date of hire. Health plan provisions do not vary by retirement tier or age, except for Medicare coordination for those Medicare-eligible. Dental, vision, and audio claims (DVA) are excluded from data analyzed for this valuation because those are retiree-pay all benefits where rates are assumed to be self-supporting. Gallagher relies upon rates set by a third-party for the DVA benefits. Gallagher reviewed historical rate-setting information and views contribution rate adjustments made are not unreasonable.

Administration and Data Sources

The plan has been administered by Aetna since January 1, 2014.

Claims incurred for the period from July 2022 through June 2024 (FY23 through FY24) were provided by the State of Alaska from reports extracted from their data warehouse, which separated claims by Medicare status. Monthly enrollment data for the same period was provided by Aetna.

Aetna also provided census information identifying Medicare Part B only participants. These participants are identified when hospital claims are denied by Medicare. Aetna then flags that participant as a Part B only participant. Gallagher added newly identified participants to our list of Medicare Part B only participants. Gallagher assumes that once identified as Part B only, that participant remains in that status until we are notified otherwise.

Aetna provided a snapshot file as of July 1, 2024 of retirees and dependents that included a coverage level indicator. The monthly enrollment data includes double coverage participants. These are participants whereby both the retiree and

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spouse are retirees from the State and both are reflected with Couple coverage in the enrollment. In this case, such a couple would show up as four members in the monthly enrollment (each would be both a retiree and a spouse). As a result, the snapshot census file was used to adjust the total member counts in the monthly enrollment reports to estimate the number of unique participants enrolled in coverage. Based on the snapshot files from the last two valuations, the total member count in the monthly enrollment reports needs to be reduced by approximately 13% to account for the number of participants with double coverage.

Aetna does not provide separate experience by Medicare status in standard reporting, so the special reports mentioned above from the data warehouse were used to obtain that information and incorporate it into the per capita rate development for each year of experience (with corresponding weights applied in the final per capita cost).

Methodology

Gallagher projected historical claim data to FY25 for retirees using the following steps:

1. Develop historical annual incurred claim cost rates – An analysis of medical costs was completed based on claims information and enrollment data provided by the State of Alaska and Aetna for each year in the experience period of FY23 through FY24.
 - Costs for medical services and prescriptions were analyzed separately, and separate trend rates were developed to project expected future medical and prescription costs for the valuation year (e.g., from the experience period up through FY25).
 - Because the reports provided reflected incurred claims, no additional adjustment was needed to determine incurred claims to be used in the valuation.
 - An offset for costs expected to be reimbursed by Medicare was incorporated beginning at age 65. Alaska retirees who do not have 40 quarters of Medicare-covered compensation do not qualify for Medicare Part A coverage free of charge. This is a relatively small and closed group. Medicare was applied to State employment for all employees hired after March 31, 1986. For the “no-Part A” individuals who are required to enroll in Medicare Part B, the State is the primary payer for hospital bills and other Part A services. Claims experience is not available separately for participants with both Medicare Parts A and B and those with Part B only. For Medicare Part B only participants, a lower average claims cost was applied to retirees covered by both Medicare Part A and B vs. retirees covered only by Medicare Part B based upon manual rate models that estimate the Medicare covered proportion of medical costs. To the extent that no-Part A claims can be isolated and applied strictly to the appropriate closed group, actuarial accrued liability will be more accurate.
 - Based on census data received from Aetna, approximately 2% of the current retiree population was identified as having coverage only under Medicare Part B. We assume that 2% of actives hired before April 1, 1986 and current retirees who are not yet Medicare eligible will not be eligible for Medicare Part A.
 - Based upon a reconciliation of valuation census data to the snapshot eligibility files provided by Aetna as of July 1, 2023, and July 1, 2024, Gallagher adjusted member counts used for duplicate records where participants have double coverage (i.e., primary coverage as a retiree and secondary coverage as the covered spouse of another retiree). This adjustment is to reflect the total cost per distinct individual/member which is then applied to distinct members in the valuation census.

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- Gallagher understands that pharmacy claims reported do not reflect rebates. Based on actual pharmacy rebate information provided by Optum, rebates were assumed to be 31.8% of pre-Medicare and 16.4% of Medicare prescription drug claims for FY23; and 29.8% of pre-Medicare and 19.8% of Medicare prescription drug claims for FY24.
- Develop estimated EGWP reimbursements – Segal Consulting provided estimated calendar year 2025 EGWP subsidies, developed with the assistance of OptumRx. These amounts are applicable only to Medicare-eligible participants. The EGWP estimates increased significantly from 2024 to 2025, as a result of the Inflation Reduction Act, primarily due to increases in Direct Subsidy payments. It is uncertain whether future subsidy levels will remain at the higher level. In addition, retiree cost sharing is expected to decrease in 2025 based on the 2025 Standard Medicare Part D plan design. The estimated reimbursements under EGWP from fiscal years 2021 through 2025, trended to fiscal year 2025, were blended to develop the EGWP subsidies for the June 30, 2024 valuation. The first-year trend rate applied to EGWP per capita costs was also adjusted to reflect the increase in EGWP subsidies from CY 2024 to CY 2025.
 - Adjust for claim fluctuation, anomalous experience, etc. – Explicit adjustments are often made for anticipated large claims or other anomalous experience. FY23 and FY24 experience was thoroughly reviewed to assess the impact of COVID-19 and whether an adjustment to FY23 and FY24 claims was appropriate for use in the June 30, 2024 valuation. Total medical and prescription drug claims experience for FY23 and FY24 was reasonable when compared to pre-COVID levels, so no adjustments were used in the per capita claims cost development. In addition, we did not make any large claim adjustments due to group size and demographics. We do blend both Alaska plan-specific and national trend factors as described below. Gallagher compared data utilized to lag reports and quarterly plan experience presentations provided by the State and Aetna to assess accuracy and reasonableness of data.
 - Trend all data points to the projection period – Project prior years’ experience forward to FY25 for retiree benefits on an incurred claim basis. Trend factors derived from historical Alaska-specific experience and national trend factors are shown below in item 5.
 - Apply credibility to prior experience – Adjust prior year’s data by assigning weighting factors to recent periods, as shown at the right of the table below. The Board approved a change in the weighting of experience periods beginning with the June 30, 2017 valuation. For both experience periods, we averaged projected plan costs by applying 75% weight to Alaska-specific trends and 25% weight to national trends.

Alaska-Specific and National Average Weighted Trend from Experience Period to Valuation Year			
Experience Period	Medical	Prescription	Weighting Factors
FY23 to FY24	11.1% Pre-Medicare / 7.4% Medicare	10.2%	50%
FY24 to FY25	6.8% Pre-Medicare / 8.9% Medicare	12.0%	50%

- Trend assumptions used for rate development are assessed annually and as additional/improved reporting becomes available, we will incorporate into rate development as appropriate.
- Develop separate administration costs – No adjustments were made for internal administrative costs. Third party

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retiree plan administration fees for FY25 are based upon total fees projected to 2025 by Segal Consulting based on actual FY24 fees. The annual per participant per year administrative cost rate for medical and prescription benefits is \$442.

D. Healthcare Reform

Healthcare Reform legislation passed on March 23, 2010 included several provisions with potential implications for the State of Alaska Retiree Health Plan liability. Gallagher evaluated the impact due to these provisions.

Because the State plan is retiree-only, and was in effect at the time the legislation was enacted, not all provisions of the health reform legislation apply to the State plan. Unlimited lifetime benefits and dependent coverage to age 26 are two of these provisions. We reviewed the impact of including these provisions, but there was no decision made to adopt them, and no requirement to do so.

Because Transitional Reinsurance fees are only in effect until 2016, we excluded these for valuation purposes.

The Further Consolidated Appropriations Act, 2020 passed in December 2019 repealed several healthcare-related taxes, including the Cadillac Tax.

The Tax Cuts and Jobs Act passed in December 2017 included the elimination of the individual mandate penalty and changed the inflation measure for purposes of determining the limits for the High Cost Excise Tax to use chained CPI. It is our understanding the law does not directly impact other provisions of the ACA. While the nullification of the ACA's individual mandate penalty does not directly impact employer group health plans, it could contribute to the destabilization of the individual market and increase the number of uninsured. Such destabilization could translate to increased costs for employers. We have considered this when setting our healthcare cost trend assumptions and will continue to monitor this issue.

The Inflation Reduction Act (IRA) was signed into law on August 16, 2022. The law contains several provisions that are expected to impact Alaska's Medicare prescription drug plan (EGWP) due to design and funding changes, the most meaningful of which are expected in 2025. The IRA is also expected to bend the trend curve through price control measures such as HHS's ability to negotiate prices for older, high-cost single source brand drugs (first effective in 2026) and through the imposition of rebates for drugs that increase in excess of inflation (first effective in 2023). We have adjusted the EGWP subsidy and the first-year trend that is applied to these subsidies for the June 30, 2024 valuation based on estimated reimbursements provided by Segal Consulting. Because of the significant increase in the EGWP subsidy for FY25 and beyond due to the IRA, and uncertainty regarding future subsidy levels, the ARMB has adopted a smoothing of EGWP subsidy estimates over five years. As further guidance and projections regarding the impact of the IRA become available, updates to these assumptions may be made for future measurement dates if deemed appropriate.

We have not identified any other specific provisions of healthcare reform or its potential repeal that would be expected to have a significant impact on the measured obligation. We will continue to monitor legislative activity.

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E. Data

In accordance with actuarial standards, we note the following specific data sources and steps taken to value retiree medical benefits:

The Division of Retirement and Benefits provided pension valuation census data, which for people currently in receipt of healthcare benefits was supplemented by coverage data from the healthcare claims administrator (Aetna).

Certain adjustments and assumptions were made to prepare the data for valuation:

- All records provided with retiree medical coverage on the Aetna data were included in this valuation and we relied on the Aetna data as the source of medical coverage for current retirees and their dependents.
- Some records in the Aetna data were duplicates due to the double coverage (i.e. coverage as a retiree and as a spouse of another retiree) allowed under the plan. Records were adjusted for these members so that each member was only valued once. Any additional value of the double coverage (due to coordination of benefits) is small and reflected in the per capita costs.
- Covered children included in the Aetna data were valued until age 23, unless disabled. We assumed that those dependents over 23 were only eligible and valued due to being disabled.
- For individuals included in the pension data expecting a future pension, we valued health benefits starting at the same point that the pension benefit is assumed to start.
- Some records in the pension data were duplicates due to being a covered spouse in the Aetna data. Records were adjusted for these members so that each inactive member was only valued once, removing the record that came in through the pension data.

We are not aware of any other data issues that would be expected to have a material impact on the results and there are no unresolved matters related to the data.

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The chart below shows the basis of setting the per capita claims cost assumption, which includes both PERS and TRS.

	Medical		Prescription Drugs (Rx)	
	Pre-Medicare	Medicare	Pre-Medicare	Medicare
A. Fiscal 2023				
1. Incurred Claims	\$ 211,125,808	\$ 110,136,448	\$ 66,184,443	\$ 264,456,476
2. Adjustments for Rx Rebates	0	0	(21,046,653)	(43,370,862)
3. Net incurred claims	\$ 211,125,808	\$ 110,136,448	\$ 45,137,790	\$ 221,085,614
4. Average Enrollment	16,250	50,465	16,250	50,465
5. Claim Cost Rate (3) / (4)	12,992	2,182	2,778	4,381
6. Trend to Fiscal 2025	1.187	1.17	1.235	1.235
7. Fiscal 2025 Incurred Cost Rate (5) x (6)	\$ 15,419	\$ 2,553	\$ 3,429	\$ 5,409
8. Adjustment Factor for 2022 Plan Changes	1.000	1.000	0.976	0.976
9. Adjusted Fiscal 2025 Incurred Cost Rate (7) x (8)	\$ 15,419	\$ 2,553	\$ 3,347	\$ 5,278
B. Fiscal 2024				
1. Incurred Claims	\$ 212,627,066	\$ 124,820,031	\$ 71,496,388	\$ 303,126,812
2. Adjustments for Rx Rebates	0	0	(21,305,924)	(60,019,109)
3. Net incurred claims	\$ 212,627,066	\$ 124,820,031	\$ 50,190,464	\$ 243,107,703
4. Average Enrollment	15,367	51,897	15,367	51,897
5. Claim Cost Rate (3) / (4)	13,837	2,405	3,266	4,684
6. Trend to Fiscal 2025	1.068	1.089	1.120	1.120
7. Fiscal 2025 Incurred Cost Rate (5) x (6)	\$ 14,780	\$ 2,620	\$ 3,659	\$ 5,248
8. Adjustment Factor for 2022 Plan Changes	1.000	1.000	0.976	0.976
9. Adjusted Fiscal 2025 Incurred Cost Rate (7) x (8)	\$ 14,780	\$ 2,620	\$ 3,571	\$ 5,121
C. Adjusted Incurred Cost Rate by Fiscal Year				
1. Fiscal 2023 A.(9)	15,419	2,553	3,347	5,278
2. Fiscal 2024 B.(9)	14,780	2,620	3,571	5,121
D. Weighting by Fiscal Year				
1. Fiscal 2023	50%	50%	50%	50%
2. Fiscal 2024	50%	50%	50%	50%
E. Fiscal 2025 Incurred Cost Rate				
1. Rate at Average Age C x D	\$ 15,099	\$ 2,586	\$ 3,459	\$ 5,200
2. Average Aging Factor	0.816	1.214	0.843	1.146
3. Rate at Age 65 (1) / (2)	\$ 18,503	2,130	\$ 4,103	\$ 4,539
F. Development of Part A&B and Part B Only Cost from Pooled Rate Above				
1. Part A&B Average Enrollment		51,410		
2. Part B Only Average Enrollment		488		
3. Total Medicare Average Enrollment B(4)		51,897		
4. Cost ratio for those with Part B only to those with Parts A&B		3.300		
5. Factor to determine cost for those with Parts A&B (2) / (3) x (4) + (1) / (3) x 1.00		1.022		
6. Medicare per capita cost for all participants: E(3)		\$ 2,130		
7. Cost for those eligible for Parts A&B: (6) / (5)		\$ 2,085		
8. Cost for those eligible for Part B only: (7) x (4)		\$ 6,880		

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Following the development of total projected costs, per capita claims costs were distributed by age by allocating total projected costs to the population census used in the valuation. The allocation was done separately for each of prescription drug and medical costs for the Medicare eligible and pre-Medicare populations. The allocation weights were developed using participant counts by age and assumed morbidity and aging factors. Results were tested for reasonableness based on historical trend and external benchmarks for costs paid by Medicare. The results of our analysis are summarized in the table below.

Per Capita Claims Costs by Age for July 1, 2024 through June 30, 2025				
Age	Medical and Medicare Parts A & B	Medical and Medicare Part B Only	Prescription Drug	Medicare EGWP Subsidy
45	\$ 11,292	\$ 11,292	\$ 2,633	\$ -
50	12,776	12,776	3,127	-
55	14,455	14,455	3,714	-
60	16,354	16,354	3,904	-
65	2,085	6,880	4,539	1,586
70	2,302	7,596	5,036	1,760
75	2,543	8,387	5,587	1,952
80	2,834	9,351	5,504	1,923

F. Changes in Methods Since the Prior Valuation

The actuarially determined contribution rates were updated to include a half-year interest adjustment that was adopted by the Board effective beginning with the June 30, 2024 valuation to account for the monthly timing of employer contributions. There were no changes in the asset or valuation methods since the prior valuation.

State of Alaska
Teachers' Retirement System
Defined Benefit Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

The demographic and economic assumptions used in the June 30, 2024 valuation are described below. Unless noted otherwise, these assumptions were adopted by the Board at the June 2022 meeting based on the experience study for the period July 1, 2017 to June 30, 2021.

1. Investment Return 7.25% per year, net of investment expenses.
2. Salary Scale Salary scale rates based on the 2017-2021 actual experience (see Table 1).

Inflation – 2.50% per year. Productivity – 0.25% per year.
3. Payroll Growth 2.75% per year (2.50% inflation + 0.25% productivity).
4. Total Inflation Total inflation as measured by the Consumer Price Index for urban and clerical workers for Anchorage is assumed to increase 2.50% annually.
5. Mortality
 (Pre-commencement) Mortality rates based on the 2017–2021 actual experience, to the extent the experience was statistically credible.
 - Pension: Pub-2010 Teachers Employee table, amount-weighted, and projected with MP-2021 generational improvement.
 - Healthcare: Pub-2010 Teachers Employee table, headcount-weighted, and projected with MP-2021 generational improvement.Deaths are assumed to result from occupational causes 15% of the time.
6. Mortality
 (Post-commencement) Mortality rates based on the 2017–2021 actual experience, to the extent the experience was statistically credible.

Retiree mortality in accordance with the following tables:
 - Pension: 97% of male and 97% of female rates of the Pub-2010 Teachers Retiree table, amount-weighted, and projected with MP-2021 generational improvement.
 - Healthcare: 98% of male and 100% of female rates of the Pub-2010 Teachers Retiree table, headcount-weighted, and projected with MP-2021 generational improvement.Beneficiary mortality in accordance with the following tables. These tables are applied only after the death of the original member.
 - Pension: 100% of male and 95% of female rates of the Pub-2010 Contingent Survivor table, amount-weighted, and projected with MP-2021 generational improvement.
 - Healthcare: 100% of male and 94% of female rates of the Pub-2010 Contingent Survivor table, headcount-weighted, and projected with MP-2021 generational improvement.
7. Turnover Select and ultimate rates based on the 2017–2021 actual experience (see Table 2a and 2b).

Actuarial Section

State of Alaska Teachers' Retirement System Defined Benefit Retirement Plan Summary of Actuarial Assumptions and Changes in Assumptions

8. Disability	<p>No changes to the incidence rates from the prior valuation due to insufficient 2017–2021 actual experience. Disability rates cease once a member is eligible for retirement.</p> <p>Post-disability mortality in accordance with the following tables:</p> <ul style="list-style-type: none">• Pension: Pub-2010 Non-safety Disabled Retiree table, amount-weighted, and projected with MP-2021 generational improvement.• Healthcare: Pub-2010 Non-safety Disabled Retiree table, headcount-weighted, and projected with MP-2021 generational improvement.
9. Retirement	<p>Retirement rates based on the 2017–2021 actual experience (see Table 4).</p> <p>Deferred vested members are assumed to retire at their earliest unreduced retirement date.</p> <p>The modified cash refund annuity is valued as a three-year certain and life annuity.</p>
10. Spouse Age Difference	<p>Males are assumed to be three years older than their wives. Females are assumed to be two years younger than husbands.</p>
11. Percent Married for Pension	<p>85% of male members and 75% female members are assumed to be married at termination from active service.</p>
12. Dependent Spouse Medical Coverage Election	<p>Applies to members who do not have double medical coverage. 60% of male members and 50% of female members are assumed to be married and cover a dependent spouse.</p>
13. Dependent Children	<ul style="list-style-type: none">• Pension: For the participants who are assumed to be married, those between ages 25 and 45 are assumed to have two dependent children.• Healthcare: Benefits for dependent children have been valued only for members currently covering their dependent children. These benefits are only valued through the dependent children's age 23 (unless the child is disabled).
14. Imputed Data	<p>Data changes from the prior year which are deemed to have an immaterial impact on liabilities and contribution rates are assumed to be correct in the current year's client data. Non-vested terminations with appropriate refund dates are assumed to have received a full refund of contributions. Active members with missing salary and service are assumed to be terminated with status based on their vesting percentage.</p>
15. Active Data Adjustment	<p>No adjustment was made to reflect participants who terminate employment before the valuation date and are subsequently rehired after the valuation date.</p>

State of Alaska
Teachers' Retirement System
Defined Benefit Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

16. Administrative Expenses	<p>The Normal Cost as of June 30, 2024 was increased by the following amounts. These amounts are based on the average of actual administrative expenses during the last two fiscal years. For projections, the percent increase was assumed to remain constant in future years.</p> <ul style="list-style-type: none">• Pension – \$3,500,000• Healthcare – \$1,823,000
17. Rehire Assumption	<p>The normal cost used for determining contribution rates and in the projections includes a rehire assumption to account for anticipated rehires. The normal cost shown in the report includes the following assumptions based on the four years of rehire loss experience through June 30, 2021. For projections, these assumptions were assumed to grade to zero uniformly over a 20-year period.</p> <ul style="list-style-type: none">• Pension – 12.00%• Healthcare – 0.20%
18. Re-Employment Option	<p>All re-employed retirees are assumed to return to work under the standard option.</p>
19. Service	<p>Total credited service is provided by the State. This service is assumed to be the only service that should be used to calculate benefits. Additionally, the State provides claimed service (including Bureau of Indian Affairs service). Claimed service is used for vesting and eligibility purposes.</p>
20. Part-Time Service	<p>Part-time employees are assumed to earn 0.75 years of credited service per year.</p>
21. Unused Sick Leave	<p>5.25 days of unused sick leave for each year of service are assumed to be available to be credited once the member is retired, terminates, or dies.</p>
22. Final Average Earnings	<p>Final average earnings is provided on the data for active members. This amount is used as a minimum in the calculation of the average earnings in the future.</p>
23. Contribution Refunds	<p>0% of terminating members with vested benefits are assumed to have their contributions refunded. 100% of those with non-vested benefits are assumed to have their contributions refunded.</p>
24. Early Retirement Factors	<p>Division staff provided the early retirement factors, which reflect grandfathered factors.</p>
25. Alaska Cost-of-Living Adjustments (COLA)	<p>Of those benefit recipients who are eligible for the Alaska COLA, 60% are assumed to remain in Alaska and receive the COLA.</p>
26. Post-Retirement Pension Adjustment (PRPA)	<p>50% and 75% of assumed inflation, or 1.25% and 1.875%, respectively, is valued for the annual automatic PRPA as specified in the statute.</p>

State of Alaska
Teachers' Retirement System
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Summary of Actuarial Assumptions and Changes in Assumptions

27. Healthcare Participation

100% of system paid members and their spouses are assumed to elect healthcare benefits as soon as they are eligible. 20% of non-system paid members and their spouses are assumed to elect healthcare benefits as soon as they are eligible.
28. Medicare Part B Only

It's assumed that 2% of actives hired before April 1, 1986 and current retirees who are not yet Medicare eligible will not be eligible for Medicare Part A.
29. Healthcare Per Capita Claims Cost

Sample claims cost rates adjusted to age 65 for FY25 medical and prescription drugs are shown below. The prescription drug costs reflect the plan change to require prior authorization for certain specialty medications. The pre-Medicare medical cost reflects the coverage of additional preventive benefits.

	Medical	Prescription Drugs
Pre-Medicare	\$ 18,503	\$ 4,103
Medicare Parts A & B	2,085	4,539
Medicare Part B Only	6,880	4,539
Medicare Part D – EGWP	N/A	1,586

Members are assumed to attain Medicare eligibility at age 65. All costs are for the 2025 fiscal year (July 1, 2024 – June 30, 2025).

The smoothed fiscal year 2025 EGWP subsidy assumption reflects a weighted blend of estimated reimbursements from fiscal years 2021 through 2025. Since estimated FY25 EGWP subsidies contained only 6 months of increased subsidy due to the IRA changes as of January 1, 2025, the first year EGWP subsidy trend is 30.20% taking into account the estimated FY26 subsidy has 12 months of increased subsidy. Thereafter, the EGWP subsidy is assumed to increase in future years by the trend rates shown on the following pages. No future legislative changes or other events are anticipated to impact the EGWP subsidy. If any legislative or other changes occur in the future that impact the EGWP subsidy (which could either increase or decrease the plan's Actuarial Accrued Liability), those changes will be evaluated and quantified when they occur.

30. Healthcare Morbidity

Morbidity rates (also called aging factors) are used to estimate utilization of healthcare benefits at each age to reflect the fact that healthcare utilization typically increases with age. Separate morbidity rates are used for medical and prescription drug benefits. These rates are based on the 2017–2021 actual experience.

Age	Medical	Prescription drugs
0–44	2.0%	4.5%
45–54	2.5	3.5
55–64	2.5	1.0
65–74	2.0	2.1
75–84	2.2	(0.3)
85–94	0.5	(2.5)
95+	—	—

State of Alaska
Teachers' Retirement System
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Summary of Actuarial Assumptions and Changes in Assumptions

31. Healthcare Third Party Administrator Fees \$442 per person per year; assumed to increase at 4.50% per year.

32. Healthcare Cost Trend The table below shows the rate used to project the cost from the shown fiscal year to the next fiscal year. For example, 6.40% is applied to the FY25 pre-Medicare medical claims costs to get the FY26 pre-Medicare medical claims costs.

Fiscal Year	Medical Pre-65	Medical Post-65	Prescription Drugs / EGWP
FY25	6.40%	5.40%	8.80%
FY26	6.20	5.40	8.50
FY27	6.05	5.35	8.20
FY28	5.85	5.35	7.90
FY29	5.65	5.30	7.45
FY30	5.45	5.30	7.05
FY31	5.30	5.30	6.60
FY32	5.30	5.30	6.15
FY33	5.30	5.30	5.70
FY34-FY38	5.30	5.30	5.30
FY39	5.25	5.25	5.30
FY40	5.20	5.20	5.30
FY41	5.10	5.10	5.20
FY42	5.05	5.05	5.10
FY43	4.95	4.95	5.00
FY44	4.90	4.90	4.90
FY45	4.80	4.80	4.85
FY46	4.75	4.75	4.75
FY47	4.70	4.70	4.70
FY48	4.60	4.60	4.65
FY49	4.55	4.55	4.55
FY50+	4.50	4.50	4.50

For the June 30, 2014 valuation and later, the updated Society of Actuaries' Healthcare Cost Trend Model is used to project medical and prescription drug costs. This model estimates trend amounts that are projected out for 80 years. The model has been populated with assumptions that are specific to the State of Alaska.

State of Alaska
Teachers’ Retirement System
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Summary of Actuarial Assumptions and Changes in Assumptions

33. Retired Member Contributions for Medical Benefits

Currently, contributions are required for TRS members who are under age 60 and have less than 25 years of service. Eligible Tier 1 members are exempt from contribution requirements. Annual FY25 contributions based on monthly rates shown below for calendar 2025 are assumed based on the coverage category for current retirees. The retiree only rate shown is used for current active and inactive members and spouses in Tier 2 who are assumed to retire prior to age 60 with less than 25 years of service and who are not disabled. For dependent children, we value 1/3 of the annual retiree contribution to estimate the per child rate based on the assumed number of children in rates where children are covered.

Coverage Category	Calendar 2025		Calendar 2024
	Annual Contribution	Monthly Contribution	Monthly Contribution
Retiree Only	\$ 8,868	\$ 739	\$ 704
Retiree and Spouse	17,736	1,478	1,408
Retiree and Child(ren)	12,540	1,045	995
Retiree and Family	21,408	1,784	1,699
Composite	13,176	1,098	1,046

34. Trend Rate for Retired Member Medical Contribution

Calendar 2025 contributions are trended back to FY25 using half a year of 4.0% trend. Thereafter, a rate of 4.0% is used to project retired member medical contributions to each subsequent fiscal year .

35. Changes in Assumptions Since the Prior Valuation

The healthcare per capita claims cost assumption is updated annually as described in Section 5.2. As a result of changes to the Standard Medicare Part D plan under the Inflation Reduction Act, EGWP subsidies are expected to be higher than originally anticipated for 2025 and beyond. EGWP subsidies were updated based on estimates provided by Segal Consulting. Because of the significant increase in the EGWP subsidy for FY25 and beyond due to the Inflation Reduction Act, and uncertainty regarding future subsidy levels, the ARMB has adopted a smoothing of EGWP subsidy estimates over five years. In addition, the prescription drug and EGWP trend assumption was updated to reflect recent survey information indicating higher than initial trend rates in part due to the recent higher-than-expected inflationary environment.

The amounts included in the Normal Cost for administrative expenses were changed from \$3,558,000 to \$3,500,000 for pension, and from \$1,956,000 to \$1,823,000 for healthcare (based on the most recent two years of actual administrative expenses paid from plan assets).

There were no other changes in actuarial assumptions since the prior valuation.

State of Alaska
Teachers' Retirement System
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Summary of Actuarial Assumptions and Changes in Assumptions

Table 1
Salary Scale

Years of Service	Percent Increase
< 1	7.00%
1	6.50
2	6.00
3	5.75
4	5.50
5	5.25
6	5.00
7	4.75
8	4.50
9	4.25
10	4.00
11	3.75
12	3.50
13	3.45
14	3.35
15	3.25
16	3.15
17	3.05
18	3.00
19	2.95
20+	2.85

Actuarial Section

State of Alaska
Teachers' Retirement System
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Summary of Actuarial Assumptions and Changes in Assumptions

Table 2
Turnover Rates

Select Rates during the First 8 Years of Employment		
Years of Service	Male	Female
< 1	20.40%	17.00%
1	20.40	17.00
2	16.80	14.00
3	14.40	12.00
4	12.00	10.00
5	10.80	9.00
6	9.00	7.50
7	7.20	6.00

Ultimate Rates after the First 8 Years of Employment		
Age	Male	Female
< 30	3.60%	4.60%
30 - 34	3.60	5.40
35 - 39	3.60	3.90
40 - 44	3.10	2.60
45 - 49	3.10	2.60
50 - 54	4.60	4.80
55+	2.80	4.80

State of Alaska
Teachers' Retirement System
Defined Benefit Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

Table 3
Disability Rates

Age	Male	Female	Age	Male	Female
< 31	0.0337%	0.0612%	50	0.0601%	0.1093%
31	0.0337	0.0613	51	0.0634	0.1152
32	0.0337	0.0613	52	0.0666	0.1211
33	0.0342	0.0622	53	0.0746	0.1356
34	0.0347	0.0631	54	0.0826	0.1501
35	0.0353	0.0641	55	0.0905	0.1645
36	0.0357	0.0650	56	0.0985	0.1790
37	0.0362	0.0659	57	0.1064	0.1935
38	0.0371	0.0674	58	0.1245	0.2263
39	0.0379	0.0689	59	0.1426	0.2592
40	0.0387	0.0703	60	0.1606	0.2920
41	0.0395	0.0718	61	0.1787	0.3249
42	0.0403	0.0733	62	0.1967	0.3577
43	0.0423	0.0770	63	0.2253	0.4096
44	0.0443	0.0806	64	0.2572	0.4677
45	0.0464	0.0843	65	0.2933	0.5332
46	0.0483	0.0879	66	0.3343	0.6079
47	0.0504	0.0916	67	0.3812	0.6930
48	0.0536	0.0975	68	0.4345	0.7900
49	0.0569	0.1034	69	0.4953	0.9006
			70+	0.5647	1.0267

Actuarial Section

State of Alaska
Teachers' Retirement System
Defined Benefit Retirement Plan
Summary of Actuarial Assumptions and Changes in Assumptions

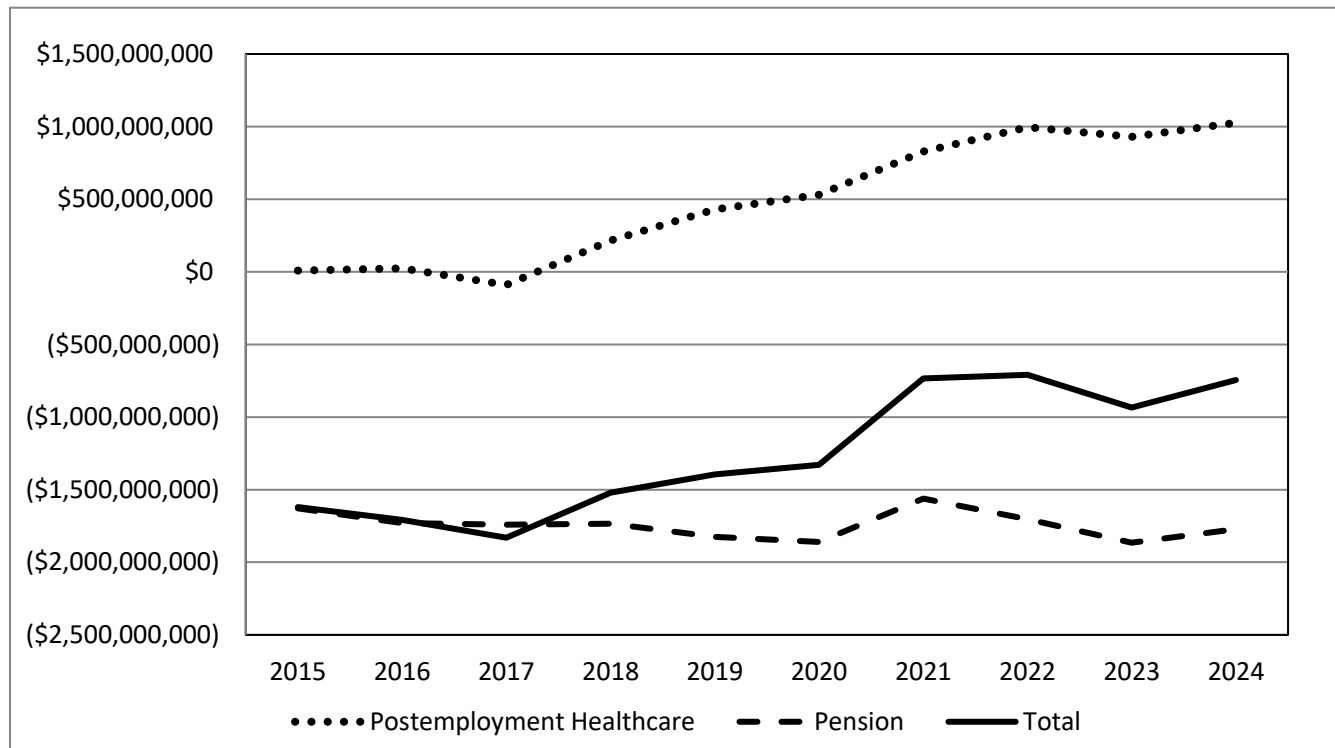
Table 4
Retirement Rate

Age	Reduced		Unreduced	
	Male	Female	Male	Female
< 45	N/A	N/A	3.00%	3.00%
45	N/A	N/A	5.50	7.00
46	N/A	N/A	5.50	7.00
47	N/A	N/A	5.50	7.00
48	N/A	N/A	5.50	7.00
49	N/A	N/A	5.50	7.00
50	5.00%	5.00%	12.50	13.00
51	5.00	5.00	12.50	13.00
52	5.00	10.00	12.50	13.00
53	5.00	5.00	12.50	13.00
54	10.00	5.00	12.50	13.00
55	14.50	11.00	20.00	17.50
56	9.50	11.00	20.00	17.50
57	9.50	11.00	20.00	17.50
58	9.50	11.00	20.00	17.50
59	9.50	11.00	20.00	17.50
60 - 64	N/A	N/A	19.50	23.50
65 - 69	N/A	N/A	28.00	23.50
70 - 74	N/A	N/A	30.00	36.00
75 - 79	N/A	N/A	50.00	50.00
80+	N/A	N/A	100.00	100.00

Actuarial Section

Teachers' Retirement System Defined Benefit Retirement Plan Funding Excess / (Unfunded Liability) (In thousands)				
Actuarial Valuation Year Ended June 30	Postemployment Healthcare	Pension	Total Funding Excess/ (Unfunded Liability)	Funded Ratio
2024	\$ 1,025,870	\$ (1,771,487)	\$ (745,617)	93.0%
2023	930,152	(1,865,225)	(935,073)	91.2
2022	994,639	(1,703,842)	(709,203)	93.1
2021	828,134	(1,561,518)	(733,384)	92.6
2020	531,608	(1,859,972)	(1,328,364)	86.6
2019	428,918	(1,824,089)	(1,395,171)	85.9
2018	214,559	(1,734,690)	(1,520,131)	84.7
2017	(90,291)	(1,740,690)	(1,830,981)	82.0
2016	23,868	(1,731,101)	(1,707,233)	82.8
2015	8,879	(1,629,073)	(1,620,194)	83.3

10-YEAR TREND OF FUNDING EXCESS/(UNFUNDED) LIABILITY
(In thousands)



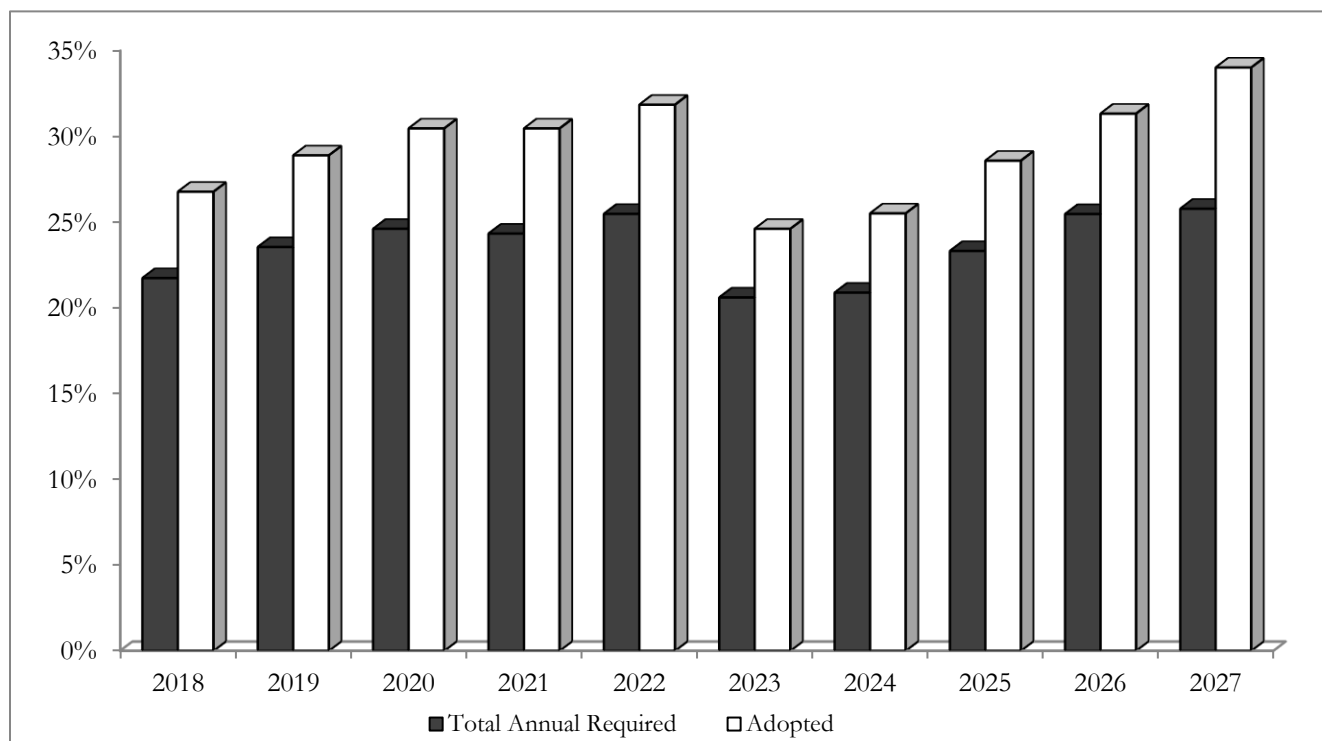
Actuarial Section

Teachers' Retirement System Defined Benefit Retirement Plan Employer Contribution Rates						
Year Ended June 30	Actuarially Determined					Adopted
	Actuarial Valuation Year Ended June 30	Normal Cost	Past Service	Defined Contribution Retirement	Total Annual Required	
2027	2024	3.91%	21.88%	8.02%	25.79%	34.02%
2026	2023	4.36	21.12	7.65	33.13	31.33
2025	2022	4.31	19.02	7.29	30.62	28.59
2024	2021	4.46	16.44	7.03	27.93	25.52
2023	2020	4.96	15.66	6.72	27.34	24.62
2022	2019	5.38	20.11	6.36	31.85	31.85
2021	2018	5.93	18.41	6.13	30.47	30.47
2020	2017	5.14	19.48	5.85	30.47	30.47
2019	2016	5.29	18.27	5.34	28.90	28.90
2018	2015	3.99	17.76	5.03	26.78	26.78

Beginning with the June 30, 2014 valuation, contribution rates for FY17 and beyond are determined using new methodology in accordance with 2014 legislation under HB 385 and SB 119, 2014 Alaska Laws, which changed the amortization methodology to a closed 25-year period as a level percentage of pay, and eliminated the time lag on the contribution rate calculation by using a 2-year year "roll-forward" approach and assuming 0% population growth. Investment gains and losses are recognized over a 5-year period beginning in FY15. Beginning with the June 30, 2018 valuation, the UAAL amortization was changed as described in Section 5.2.

Valuations are used to set contribution rates in future years.

10-YEAR COMPARISON OF EMPLOYER CONTRIBUTION RATES



Teachers' Retirement System Defined Benefit Retirement Plan Schedule of Active Member Data					
Valuation Date	Number	Annual Earnings (In thousands)	Annual Average Earnings	Percent Increase in Average Earnings	Number of Participating Employers
June 30, 2024	2,447	\$ 250,583	\$ 102,323	3.5%	57
June 30, 2023	2,734	270,174	98,820	1.1	57
June 30, 2022	3,023	295,354	97,702	3.8	57
June 30, 2021	3,396	319,711	94,143	4.0	56
June 30, 2020	3,789	343,146	90,564	1.9	56
June 30, 2019	4,044	359,426	88,879	1.7	56
June 30, 2018	4,418	386,016	87,374	1.2	56
June 30, 2017	4,772	411,951	86,327	1.6	57
June 30, 2016	5,123	435,222	84,954	2.4	57
June 30, 2015	5,502	456,636	82,995	2.4	58
Total and average annual earnings ("valuation pay") are the annualized earnings for the fiscal year ending of the valuation date.					

Teachers' Retirement System Defined Benefit Retirement Plan Schedule of Pension Benefit Recipients Added to and Removed from Rolls								
Year Ended	Added to Rolls		Removed from Rolls		Rolls – End of Year		Percent Increase/ (Decrease) in Annual Pension Benefits	Average Annual Pension Benefit
	No.*	Annual Pension Benefits*	No.*	Annual Pension Benefits*	No.	Annual Pension Benefits		
June 30, 2024	553	\$24,082,044	363	\$10,544,001	14,445	\$583,606,916	2.4%	\$40,402
June 30, 2023	478	19,944,072	349	(13,224,262)	14,255	570,068,874	6.2	39,991
June 30, 2022	529	22,643,316	375	(3,174,745)	14,126	536,900,540	5.1	38,008
June 30, 2021	593	22,728,504	310	11,391,465	13,972	511,082,479	2.3	36,579
June 30, 2020	460	17,641,920	262	5,527,983	13,689	499,745,440	2.5	36,507
June 30, 2019	468	18,004,896	254	871,684	13,491	487,631,503	3.6	36,145
June 30, 2018	555	21,924,986	261	6,926,129	13,277	470,498,291	3.3	35,437
June 30, 2017	487	17,151,684	230	7,736,025	12,983	455,499,434	2.1	35,084
June 30, 2016	530	18,364,581	222	6,144,109	12,726	446,083,775	2.8	35,053
June 30, 2015	888	34,120,658	220	3,531,501	12,418	433,863,303	7.6	34,938
*Numbers are estimated and include other internal transfers.								

Actuarial Section

Teachers' Retirement System Defined Benefit Retirement Plan Pension Solvency Test (In thousands)							
Valuation Date	Pension Actuarial Accrued Liability For:			Pension Valuation Assets	Portion of Actuarial Accrued Liabilities Covered by Assets:		
	(1) Active Member Contributions	(2) Inactive Members	(3) Active Members (Employer-Financed Portion)		(1)	(2)	(3)
June 30, 2024	\$ 528,288	\$ 6,562,982	\$ 927,467	\$ 6,247,250	100.0%	87.1%	—%
June 30, 2023	557,567	6,511,368	967,750	6,171,460	100.0	86.2	—
June 30, 2022	594,033	6,169,712	1,040,301	6,100,204	100.0	89.2	—
June 30, 2021	634,029	5,833,812	1,004,046	5,910,369	100.0	90.4	—
June 30, 2020	668,105	5,749,353	1,029,578	5,587,064	100.0	85.6	—
June 30, 2019	673,540	5,672,003	1,042,477	5,563,931	100.0	86.2	—
June 30, 2018	690,775	5,502,418	1,083,097	5,541,600	100.0	88.2	—
June 30, 2017	706,772	5,418,948	1,091,805	5,476,835	100.0	88.0	—
June 30, 2016	709,903	5,329,673	1,120,212	5,428,687	100.0	88.5	—
June 30, 2015	714,422	5,192,935	1,144,367	5,422,651	100.0	90.7	—
Change in assumptions reflected in 2022, 2018, and 2014 valuation reports. Change in methods reflected in 2014 valuation reports.							

Actuarial Section

Teachers' Retirement System Defined Benefit Retirement Plan Healthcare Solvency Test (In thousands)							
Valuation Date	Healthcare Actuarial Accrued Liability For:			Healthcare Valuation Assets	Portion of Actuarial Accrued Liabilities Covered by Assets:		
	(1) Active Member Contributions	(2) Inactive Members	(3) Active Members (Employer-Financed Portion)		(1)	(2)	(3)
June 30, 2024	\$ —	\$ 2,071,570	\$ 579,975	\$ 3,677,415	100.0%	100.0%	100.0%
June 30, 2023	—	2,015,723	602,098	3,547,973	100.0	100.0	100.0
June 30, 2022	—	1,841,588	600,989	3,437,216	100.0	100.0	100.0
June 30, 2021	—	1,778,645	660,958	3,267,737	100.0	100.0	100.0
June 30, 2020	—	1,776,704	712,971	3,021,283	100.0	100.0	100.0
June 30, 2019	—	1,788,124	730,520	2,947,562	100.0	100.0	100.0
June 30, 2018	—	1,874,333	809,817	2,898,709	100.0	100.0	100.0
June 30, 2017	—	1,980,148	946,945	2,836,802	100.0	100.0	90.5
June 30, 2016	—	1,853,084	894,752	2,771,704	100.0	100.0	100.0
June 30, 2015	—	1,870,987	806,406	2,686,272	100.0	100.0	100.0
Change in assumptions reflected in 2022, 2018, 2016, and 2014 valuation reports. Change in methods reflected in 2018 and 2014 valuation reports.							

Actuarial Section

Teachers' Retirement System Defined Benefit Retirement Plan Analysis of Financial Experience					
Change in Employer Contribution Rate Due to (Gains) and Losses in Actuarial Accrued Liabilities During the Last Five Fiscal Years Resulting from Differences Between Assumed Experience and Actual Experience					
Type of (Gain) or Loss	Change in Employer / State Contribution Rate During Fiscal Year				
	2024	2023	2022	2021	2020
Health Claims	0.01%	0.11%	(0.11)%	(0.11)%	(0.95)%
Salary Experience	0.12	(0.15)	0.26	0.25	(0.06)
Investment Experience	(0.36)	(0.08)	(0.63)	(1.95)	1.21
Demographic Experience and Miscellaneous	(1.16)	1.98	0.70	(0.91)	0.21
Actual vs Expected Contributions	0.22	0.14	(0.25)	(0.03)	(0.36)
(Gain) or Loss During Year From Experience	(1.17)	2.00	(0.03)	(2.75)	0.05
Assumption / Method Changes	0.92	—	1.33	—	—
System Benefit Changes	—	—	—	(0.02)	—
Composite (Gain) or Loss During Year	(0.14)	2.00	1.30	(2.77)	0.05
Beginning Total Employer Contribution Rate	25.56	23.56	22.26	25.03	24.98
Ending Valuation Year Employer Contribution Rate	25.40	25.56	23.56	22.26	25.03
Defined Contribution Retirement Rate	8.02	7.65	7.29	7.03	6.72
Ending Valuation Year Total Employer Contribution Rate (Defined Benefit / Defined Contribution Retirement)	33.42	33.21	30.85	29.29	31.75
Fiscal Year Employer Contribution Rate	34.02%	31.33%	28.59%	25.52%	24.62%
Fiscal Year for which Rate Applies	FY27	FY26	FY25	FY24	FY23
NOTE: The methodology adopted by the ARMB to set contribution rates includes a 2-year roll-forward of assets and liabilities, whereas the valuation-based contribution rates shown in this table are as of the valuation date without roll-forward. In addition, the ARMB-adopted contribution rates in some years are based on an amortization methodology that is different than the amortization methodology that is reflected in the valuation-based contribution rates.					

Actuarial Section

Teachers' Retirement System Defined Benefit Retirement Plan Analysis of Financial Experience						
Change in Employer / State Contribution Rate Due to (Gains) and Losses in Actuarial Accrued Liabilities During the Last Three Fiscal Years Resulting from Differences Between Assumed Experience and Actual Experience						
Type of (Gain) or Loss	Change in Employer / State Contribution Rate During Fiscal Year					
	Pension			Healthcare		
	2024	2023	2022	2024	2023	2022
Health Claims	N/A	N/A	N/A	0.01%	0.11%	(0.11)%
Salary Experience	0.12%	(0.15)%	0.26%	N/A	N/A	N/A
Investment Experience	(0.36)	(0.08)	(0.63)	—	—	—
Demographic Experience and Miscellaneous	(0.93)	2.09	0.91	(0.23)	(0.11)	(0.21)
Actual vs Expected Contributions	0.22	0.14	(0.25)	—	—	—
(Gain) or Loss During Year From Experience	(0.01)	2.00	0.29	(0.15)	0.00	(0.32)
Assumption and Method Changes	0.94	—	1.39	—	—	(0.06)
System Benefit Changes	—	—	—	—	—	—
Composite (Gain) or Loss During Year	(0.01)	2.00	1.68	(0.15)	0.00	(0.38)
Beginning Employer / State Contribution Rate	23.00	21.00	19.32	2.56	2.56	2.94
Ending Valuation year Employer / State Contribution Rate	<u>22.99%</u>	<u>23.00%</u>	<u>21.00%</u>	<u>2.41%</u>	<u>2.56%</u>	<u>2.56%</u>

Actuarial Section

Teachers' Retirement System Defined Benefit Retirement Plan Defined Benefit Pension Schedule of Funding Progress (In thousands)						
Valuation Date June 30*	Total Actuarial Accrued Liability	Valuation Assets	Assets as a Percent of Actuarial Accrued Liability	Unfunded Actuarial Accrued Liability (UAAL)	Annual Active Member Payroll	UAAL as a Percent of Annual Active Member Payroll
2024	\$ 8,018,737	\$ 6,247,250	77.9%	\$ 1,771,487	\$ 255,949	692.1%
2023	8,036,685	6,171,460	76.8	1,865,225	276,417	674.8
2022	7,804,046	6,100,204	78.2	1,703,842	303,011	562.3
2021	7,471,887	5,910,369	79.1	1,561,518	326,551	478.2
2020	7,447,036	5,587,064	75.0	1,859,972	349,236	532.6
2019	7,388,020	5,563,931	75.3	1,824,089	366,037	498.3
2018	7,276,290	5,541,600	76.2	1,734,690	392,609	441.8
2017	7,217,525	5,476,835	75.9	1,740,690	425,841	408.8
2016	7,159,788	5,428,687	75.8	1,731,101	449,629	385.0
2015	7,051,724	5,422,651	76.9	1,629,073	473,734	343.9

Teachers' Retirement System Defined Benefit Retirement Plan Alaska Retiree Healthcare Trust Schedule of Funding Progress (In thousands)						
Valuation Date June 30*	Total Actuarial Accrued Liability	Valuation Assets	Assets as a Percent of Actuarial Accrued Liability	Unfunded / (Excess funded) Actuarial Accrued Liability (UAAL)	Annual Active Member Payroll	UAAL as a Percent of Annual Active Member Payroll
2024	\$ 2,651,545	\$ 3,677,415	138.7%	\$ (1,025,870)	\$ 255,949	(400.8)%
2023	2,617,821	3,547,973	135.5	(930,152)	276,417	(336.5)
2022	2,442,577	3,437,216	140.7	(994,639)	303,011	(328.3)
2021	2,439,603	3,267,737	133.9	(828,134)	326,551	(253.6)
2020	2,489,675	3,021,283	121.4	(531,608)	349,236	(152.2)
2019	2,518,644	2,947,562	117.0	(428,918)	366,037	(117.2)
2018	2,684,150	2,898,709	108.0	(214,559)	392,609	(54.6)
2017	2,927,093	2,836,802	96.9	90,291	425,841	21.2
2016	2,747,836	2,771,704	100.9	(23,868)	449,629	(5.3)
2015	2,677,393	2,686,272	100.3	(8,879)	473,734	(1.9)

State of Alaska
Teachers' Retirement System
Defined Benefit Retirement Plan
Summary of Plan Provisions and Changes in Plan Provisions

1. Effective Date

July 1, 1955, with amendments through June 30, 2021. Chapter 97, 1990 Session Laws of Alaska, created a two-tier retirement system. Members who were first hired under TRS before July 1, 1990 (Tier 1) are eligible for different benefits than members hired after June 30, 1990 (Tier 2). Chapter 9, 2005 Session Laws of Alaska, closed the plan to new members hired after June 30, 2006. The 2021 Alaska Supreme Court Metcalfe decision allows certain members the option of transferring from the DCR plan to the DB plan.

2. Administration of Plan

The Commissioner of Administration or the Commissioner's designee is the administrator of the system. The Attorney General of the state is the legal counsel for the system and shall advise the administrator and represent the system in legal proceedings.

Prior to June 30, 2005, the Teachers' Retirement Board prescribed policies and adopted regulations and performed other activities necessary to carry out the provisions of the system. The Alaska State Pension Investment Board, Department of Revenue, Treasury Division was responsible for investing TRS funds.

On July 27, 2005, Senate Bill 141, enacted as Chapter 9, 2005 Session laws of Alaska, replaced the Teachers' Retirement Board and the Alaska State Pension Investment Board with the Alaska Retirement Management Board.

3. Employers Included

Currently, there are 57 employers participating in TRS, including the State of Alaska, 53 school districts, and three other eligible organizations.

4. Membership

Membership in TRS is mandatory for the following employees hired before July 1, 2006:

- certificated full-time and part-time elementary and secondary teachers, certificated school nurses, and certificated employees in positions requiring teaching certificates;
- positions requiring a teaching certificate as a condition of employment in the Department of Education and Early Development and the Department of Labor and Workforce Development;
- University of Alaska full-time and part-time teachers, and full-time administrative employees in positions requiring academic standing if approved by the TRS administrator;
- certain full-time or part-time teachers of Alaska Native language or culture who have elected to be covered under TRS;
- members on approved sabbatical leave under AS 14.20.310;
- certain State legislators who have elected to be covered under TRS; and
- a teacher who has filed for worker's compensation benefits due to an on-the-job assault and who, as a result of the physical injury, is placed on leave without pay.

Actuarial Section

State of Alaska Teachers' Retirement System Defined Benefit Retirement Plan Summary of Plan Provisions and Changes in Plan Provisions

Employees participating in the University of Alaska's Optional Retirement Plan or other retirement plans funded by the State are not covered by TRS.

Employees who work half-time in TRS and Public Employees' Retirement System (PERS) simultaneously are eligible for half-time TRS and PERS credit.

Senate Bill 141, signed into law on July 27, 2005, closes the plan effective July 1, 2006 to new members first hired on or after July 1, 2006.

The 2021 Alaska Supreme Court Metcalfe decision allows certain members the option of transferring from the DCR plan to the DB plan.

5. Credited Service

TRS members receive a year of membership credit if they work a minimum of 172 days during the school year (July 1 through June 30 of the following year). Fractional credit is determined based on the number of days worked. Part-time members who work at least 50% of full-time receive membership credit for each day in proportion to full-time service. Credit is granted for all Alaskan public school service.

Members may claim other types of service, including:

- Outside teaching service in out-of-state schools or Alaska private schools (not more than ten years may be claimed);
- Military service (not more than five years of military service or ten years of combined outside and military service may be claimed);
- Alaska Bureau of Indian Affairs (BIA) service;
- Retroactive Alaskan service that was not creditable at the time it occurred, but later became creditable because of legislative change;
- Unused sick leave credit after members retire; and
- Leave of absence without pay.

Except for retroactive Alaska service that occurred before July 1, 1955, and unused sick leave, contributions are required for all claimed service.

Members receiving TRS disability benefits continue to earn TRS credit while disabled.

Survivors who are receiving occupational death benefits continue to earn TRS service credit while occupational survivor benefits are being paid.

6. Employer Contributions

TRS employers contribute the amounts required, in addition to employees' contributions, to fund the benefits of the system.

The normal cost rate is a uniform rate for all participating employers (less the value of members' contributions).

State of Alaska
Teachers' Retirement System
Defined Benefit Retirement Plan
Summary of Plan Provisions and Changes in Plan Provisions

The past service rate is a uniform rate for all participating employers to amortize the unfunded past service liability with payments that are a level percentage of payroll amount over a closed 25-year period starting June 30, 2014. Effective June 30, 2018, each future year's unfunded service liability is separately amortized on a level percent of pay basis over 25 years.

Employer rates cannot be less than the normal cost rate.

Pursuant to AS 14.25.070 effective July 1, 2008, each TRS employer will pay a simple uniform contribution rate of 12.56% of member payroll.

7. Additional State Contributions

Pursuant to AS 14.25.085 effective July 1, 2008, the State shall contribute an amount (in addition to the State contribution as an employer) that, when combined with the employer contribution of 12.56%, will be sufficient to pay the total contribution rate adopted by the Board.

8. Member Contributions

Mandatory Contributions: Members are required to contribute 8.65% of their base salaries. Members' contributions are deducted from gross salaries before federal income taxes are withheld.

Contributions for Claimed Service: Member contributions are also required for most of the claimed service described above.

1% Supplemental Contributions: Members who joined the system before July 1, 1982 and elected to participate in the supplemental contributions provision are required to contribute an additional 1% of their salaries. Supplemental contributions are deducted from gross salaries after federal income taxes are withheld. Under the supplemental provision, an eligible spouse or dependent child will receive a survivor's allowance or spouse's pension if the member dies (see below). Supplemental contributions are only refundable upon death (see below).

Interest: Members' contributions earn 4.5% interest, compounded annually on June 30.

Refund of Contributions: Terminated members may receive refunds of their member contribution accounts which includes their mandatory contributions, indebtedness payments, and interest earned. Terminated members' accounts may be attached to satisfy claims under Alaska Statute 09.38.065, federal income tax levies, and valid Qualified Domestic Relations Orders.

Reinstatement of Contributions: Refunded accounts and the corresponding TRS service may be reinstated upon reemployment in TRS prior to July 1, 2010. Interest accrues on refunds until paid in full or members retire.

9. Retirement Benefits

Eligibility:

- a. Members, including deferred vested members, are eligible for normal retirement at age 55 or early retirement at age 50 if they were hired before July 1, 1990 (Tier 1), and age 60 or early retirement at age 55 if they were hired on or after July 1, 1990 (Tier 2). Additionally, they must have at least:

Actuarial Section

State of Alaska Teachers' Retirement System Defined Benefit Retirement Plan Summary of Plan Provisions and Changes in Plan Provisions

- i. eight years of paid-up membership service;
 - ii. 15 years of paid-up creditable service, the last five years of which are membership service, and they were first hired under TRS before July 1, 1975;
 - iii. five years of paid-up membership service and three years of paid-up Alaska Bureau of Indian Affairs service;
 - iv. 12 years of combined part-time and full-time paid-up membership service;
 - v. two years of paid-up membership service if they are vested in the Public Employees' Retirement System (PERS); or
 - vi. one year of paid-up membership service if they are retired from the PERS.
- b. Members may retire at any age when they have:
- i. 25 years of paid-up creditable service, the last five years of which are membership service;
 - ii. 20 years of paid-up membership service;
 - iii. 20 years of combined paid-up membership and Alaska Bureau of Indian Affairs service, the last five years of which are membership service; or
 - iv. 20 years of combined paid-up part-time and full-time membership service.

Benefit Type: Lifetime benefits are paid to members. Eligible members may receive normal, unreduced benefits when they (1) reach normal retirement age and complete the service required; or (2) satisfy the minimum service requirements to retire at any age under (b) above. Members may receive early, actuarially reduced benefits when they reach early retirement age and complete the service required.

Members may select joint and survivor options and a last survivor option. Under these options and early retirement, benefits are actuarially adjusted so that members receive the actuarial equivalents of their normal benefit amounts.

Benefit Calculations: Retirement benefits are calculated by multiplying the average base salary (ABS) times the total TRS service times the percentage multiplier. The ABS is determined by averaging the salaries earned during the three highest school years. Members must earn at least 115 days of credit in a school year to include it in the ABS calculation. TRS pays a minimum benefit of \$25.00 per month for each year of service when the calculated benefit is less.

The percentage multipliers are 2% for the first 20 years and 2.5% for all remaining service. Service before July 1, 1990 is calculated at 2%.

Salaries are subject to compensation limits under IRC 401(a)(17) for members first hired on or after July 1, 1996. Retirement benefit amounts are subject to IRC 415(b) limits regardless of hire date.

Indebtedness: Members who terminate and refund their TRS contributions are not eligible to retire unless they return to TRS employment and pay back their refunds plus interest or accrue additional service which qualifies them for retirement. TRS refunds must be paid in full if the corresponding service is to count toward the minimum service requirements for retirement. Refunded TRS service is included in total service for the purpose of calculating retirement benefits. However, when refunds are not completely paid before retirement, benefits are actuarially reduced for life. Indebtedness balances may also be created when a member purchases qualified claimed service.

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Reemployment of Retired Members: Retirees who return to work in a permanent full-time or part-time TRS position after a Normal Retirement are eligible to return under the Standard Option.

Under the Standard Option, retirement and retiree healthcare benefits are suspended while retired members are reemployed under TRS. During reemployment, members earn additional TRS service and contributions are withheld from their wages.

Members retired under the Retirement Incentive Programs (RIPs) who return to employment will:

- a. forfeit the three years of incentive credits that they received;
- b. owe TRS 110% of the benefits that they received under the RIP, which may include costs for health insurance, excluding amounts that they paid to participate; and
- c. be charged 7% interest from the date that they are reemployed until their indebtedness is paid in full or they retire again. If the indebtedness is not completely paid, future benefits will be actuarially reduced for life.

Employers make contributions to the unfunded liability of the plan on behalf of rehired retired members at the rate the employer is making contributions to the unfunded liability of the plan for other members.

10. Postemployment Healthcare Benefits

When pension benefits begin, major medical benefits are provided by TRS to (1) all employees first hired before July 1, 1990 (Tier 1) and their surviving spouses and (2) members and their surviving spouses who have 25 years of membership service, are disabled or age 60 or older, regardless of their initial hire dates. Employees first hired after June 30, 1990 (Tier 2) and their surviving spouses may receive major medical benefits prior to age 60 by paying premiums.

Medical, prescription drug, dental, vision, and audio coverage is provided through the AlaskaCare Retiree Health Plan. Health plan provisions do not vary by retirement tier or age, except for Medicare coordination. Participants in dental, vision, and audio coverage pay a full self-supporting rate and those benefits are not included in this valuation.

Starting in 2022, prior authorization will be required for certain specialty medications for all participants. There is no change to the medications that are covered by the plan.

Starting in 2022, certain preventive benefits for pre-Medicare participants will now be covered by the plan.

Surviving spouses continue coverage only if a pension payment form that provided survivor benefits was elected. Alternate payees (i.e. individuals who are the subject of a domestic relations order or DRO) are allowed to participate in the plan, but must pay the full cost.

Where premiums are required prior to age 60 (Tier 2), the valuation bases this payment upon the age of the retiree.

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State of Alaska Teachers' Retirement System Defined Benefit Retirement Plan Summary of Plan Provisions and Changes in Plan Provisions

Participants in the defined benefit plan are covered under the following benefit design:

Plan Feature	Amount
Deductible (single/family)	\$150 / \$450
Coinsurance - most services	20%
Outpatient surgery/testing	0%
Maximum Out-of-Pocket (single/family, excl. deductible)	\$800 / \$2,400
Rx Copays (generic/brand/mail-order), does not apply to OOP max	\$4 / \$8 / \$0
Lifetime Maximum	\$2,000,000

The plan coordinates with Medicare on a traditional Coordination of Benefits Method. Starting in 2019, the prescription drug coverage is through a Medicare Part D EGWP arrangement.

11. Disability Benefits

Monthly disability benefits are paid to permanently disabled members until they die, recover, or become eligible for normal retirement. To be eligible, members must have at least five years of paid-up membership service.

Disability benefits are equal to 50% of the member's base salary at the time of disability. The benefit is increased by 10% of the base salary for each minor child, up to a maximum of 40%. Members continue to earn TRS service until eligible for normal retirement.

Members are appointed to normal retirement on the first of the month after they become eligible.

12. Death Benefits

Death benefits may be paid to a spouse, dependent children, or a designated beneficiary upon the death of a member.

Occupational Death: When an active member dies from occupational causes, a monthly survivor's pension may be paid to the spouse or to the member's dependent children if there is no spouse, unless benefits are payable under the supplemental contributions provision. The pension equals 40% of the member's base salary on the date of death or disability. On the member's normal retirement date, the benefit converts to a normal retirement benefit based on the member's average base salary on the date of death and TRS service, including service accumulated from the date of death to normal retirement date.

If there is no surviving spouse or dependent children, the designated beneficiary receives the member's contribution account, which includes mandatory contributions, supplemental contributions, indebtedness payments, and interest earned. The designated beneficiary also receives a lump sum payment equal to \$1,000 plus \$100 for each year of TRS service, up to a maximum of \$3,000.

Nonoccupational Death: When a vested member dies from non-occupational causes, the surviving spouse may elect to receive a monthly 50% joint and survivor benefit or a lump sum benefit (see below), unless benefits are payable under the supplemental contributions provision. The monthly benefit is based on the member's average base salary and TRS service accrued on the date of death.

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Upon the death of an active member who has less than one year of service or an inactive member who is not vested, the designated beneficiary receives the member's contribution account, which includes mandatory contributions, supplemental contributions, indebtedness payments, and interest earned. If the member has more than one year of TRS service or is vested, the designated beneficiary also receives a lump sum payment equal to \$1,000 plus \$100 for each year of TRS service, up to a maximum of \$3,000. An additional \$500 may be payable if the member is survived by dependent children.

Supplemental Contributions Provision: Members are eligible for supplemental coverage if they joined TRS before July 1, 1982, elected to participate in the supplemental provision, and made the required contributions. A survivor's allowance or spouse's pension (see below) may be payable if the member made supplemental contributions for at least one year and dies while in membership service or while disabled under TRS. In addition, the allowance and pension may be payable if the member dies while retired or in deferred vested status if supplemental contributions were made for at least five years.

- a. **Survivor's Allowance:** If the member is survived by dependent children, the surviving spouse and dependent children are entitled to a survivor's allowance. The allowance for the spouse is equal to 35% of the member's base salary at the time of death or disability, plus 10% for each dependent child up to a maximum of 40%. The allowance terminates and a spouse's pension becomes payable when there is no longer an eligible dependent child.
- b. **Spouse's Pension:** A monthly spouse's pension is payable to the surviving spouse if there are no dependent children. The spouse's pension is equal to 50% of the retirement benefit that the deceased member was receiving or the unreduced retirement benefit that the deceased member would have received if retired at the time of death. The spouse's pension begins on the first of the month after the member's death or termination of the survivor's allowance.

Death After Retirement: If a joint and survivor option was selected at retirement, the eligible spouse receives continuing, lifetime monthly benefits after the member dies. A survivor's allowance or spouse's pension may be payable if the member participated in the supplemental contributions provision. If a joint and survivor option was not selected and benefits are not payable under the supplemental contributions provision, the designated beneficiary receives the member's contribution account, less any benefits already paid and the member's last benefit check.

13. Postretirement Pension Adjustments

Postretirement pension adjustments (PRPAs) are granted annually to eligible benefit recipients when the consumer price index (CPI) for urban wage earners and clerical workers for Anchorage increases during the preceding calendar year. PRPAs are calculated by multiplying the recipient's base benefit including past PRPAs, but excluding the Alaska COLA, times:

- a. The lesser of 75% of the CPI increase in the preceding calendar year or 9% if the recipient is at least age 65 or on TRS disability; or
- b. The lesser of 50% of the CPI increase in the preceding calendar year or 6% if the recipient is at least age 60, or under age 60 if the recipient has been receiving benefits for at least eight years.

Ad hoc PRPAs, up to a maximum of 4%, may be granted to eligible recipients who were first hired before July 1, 1990 (Tier 1) if the CPI increases and the funded ratio is at least 105%.

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In a year where an ad hoc PRPA is granted, eligible recipients will receive the higher of the two calculations.

14. Alaska Cost of Living Allowance

Eligible benefit recipients who reside in Alaska receive an Alaska COLA equal to 10% of their base benefits. The following benefit recipients are eligible:

- a. members who were first hired under TRS before July 1, 1990 (Tier 1) and their survivors;
- b. members who were first hired under TRS after June 30, 1990 (Tier 2) and their survivors if they are at least age 65; and
- c. all disabled members.

15. Changes in Benefit Provisions Valued Since the Prior Valuation

There were no changes in benefit provisions since the prior valuation.



Insurance | Risk Management | Consulting

April 23, 2025

State of Alaska
The Alaska Retirement Management Board
The Department of Revenue, Treasury Division
The Department of Administration, Division of Retirement and Benefits
P.O. Box 110203
Juneau, AK 99811-0203

Certification of Actuarial Valuation

Dear Members of The Alaska Retirement Management Board, The Department of Revenue, and The Department of Administration,

This report summarizes the annual actuarial valuation results of the State of Alaska Teachers' Retirement System Defined Contribution Retirement (TRS DCR) Plan as of June 30, 2024 performed by Gallagher Benefit Services, Inc. (Gallagher).

The actuarial valuation is based on financial information provided in the financial statements audited by KPMG LLP, member data provided by the Division of Retirement and Benefits, and medical enrollment data provided by the healthcare claims administrator (Aetna), as summarized in this report. The benefits considered are those delineated in Alaska statutes effective June 30, 2024. The actuary did not verify the data submitted, but did perform tests for consistency and reasonableness.

All costs, liabilities, and other factors under TRS DCR were determined in accordance with generally accepted actuarial principles and procedures. An actuarial cost method is used to measure the actuarial liabilities which we believe is reasonable. Gallagher is solely responsible for the actuarial data and actuarial results presented in this report. This report fully and fairly discloses the actuarial position of TRS DCR as of June 30, 2024.

TRS DCR is funded by Employer Contributions in accordance with the funding policy adopted by the Alaska Retirement Management Board (Board). The funding objective for TRS DCR is to pay required contributions that remain level as a percent of TRS DCR compensation. The Board has also established a funding policy objective that the required contributions be sufficient to pay the Normal Costs of active plan members, plan expenses, and amortize the Unfunded Actuarial Accrued Liability as a level percent of TRS DCR compensation over closed layered 25-year periods. This objective is currently being met and is projected to continue to be met as required by the Alaska State statutes. Absent future gains/losses and/or changes in actuarial assumptions/methods, actuarially determined contributions are expected to remain level as a percent of pay and the funded status of the occupational death & disability trust and the retiree medical trust are expected to remain above 100%.

The Board and staff of the State of Alaska may use this report for the review of the operations of TRS DCR. Use of this report for any other purpose or by anyone other than the Board or staff of the State of Alaska 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. Because of the risk of misinterpretation of actuarial results, Gallagher recommends requesting its advanced review of any statement to be based on information contained in this report.

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Gallagher will accept no liability for any such statement made without its prior review.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the actuarial assumptions, changes in assumptions, changes expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. In particular, retiree group benefits models necessarily rely on the use of approximations and estimates and are sensitive to changes in these approximations and estimates. Small variations in these approximations and estimates may lead to significant changes in actuarial measurements. An analysis of the potential range of such future differences is beyond the scope of this valuation.

In our opinion, the actuarial assumptions used are reasonable, taking into account the experience of the plan and reasonable long-term expectations, and represent our best estimate of the anticipated long-term experience under the plan. In our professional judgment, the combined effect of the assumptions is expected to have no significant bias. The actuary performs an analysis of plan experience periodically and recommends changes if, in the opinion of the actuary, assumption changes are needed to more accurately reflect expected future experience. The last full experience analysis was performed for the period July 1, 2017 to June 30, 2021. Based on that experience study, the Board adopted new assumptions effective beginning with the June 30, 2022 valuation to better reflect expected future experience.

Based on our annual analysis of recent claims experience, changes were made to the healthcare per capita claims cost rates effective June 30, 2024 to better reflect expected future healthcare experience. As a result of changes to the Standard Medicare Part D plan under the Inflation Reduction Act, EGWP subsidies are expected to be higher than originally anticipated for 2025 and beyond. EGWP subsidies were updated based on estimates provided by Segal Consulting. Because of the significant increase in the EGWP subsidy for FY25 and beyond due to the Inflation Reduction Act, and uncertainty regarding future subsidy levels, the ARMB has adopted a smoothing of EGWP subsidy estimates over five years. In addition, the prescription drug and EGWP trend assumption was updated to reflect recent survey information indicating higher initial trend rates in part due to the recent higher-than-expected inflationary environment.

A summary of the actuarial assumptions and methods used in this actuarial valuation is shown in Sections 4.2 and 4.3. We certify that the assumptions and methods used for funding purposes, as described in Sections 4.2 and 4.3 of this report, meet the requirements of all applicable Actuarial Standards of Practice.

Actuarial Standards of Practice No. 27 (ASOP 27) and No. 35 (ASOP 35) require the actuary to disclose the information and analysis used to support the actuary's determination that the assumptions selected by the plan sponsor do not significantly conflict with those that, in the actuary's professional judgment, are reasonable for the purpose of the measurement. Gallagher provides advice on reasonable assumptions when performing periodic experience studies. The Board selects the assumptions used, and the signing actuaries review the assumptions annually through discussions with the Board staff and analysis of actuarial experience.

In the case of the Board's selected expected return on assets (EROA), the signing actuaries have used economic information and tools provided by Gallagher's Investments practice. A spreadsheet tool created by this practice converts averages, standard deviations, and correlations from Gallagher's Capital Market Assumptions that are used for stochastic forecasting into approximate percentile ranges for the arithmetic and geometric average returns. The EROA spreadsheet tool is intended to suggest possible reasonable ranges for the expected return on assets without attempting to predict or select a specific best estimate rate of return. It takes into account the duration of investment and the target allocation of assets in the portfolio to various asset classes.

Based on the actuaries' analysis, including consistency with other assumptions used in the valuation, the percentiles generated by the EROA spreadsheet tool described above, and review of actuarial gain/loss analysis, the signing actuaries believe the assumptions, in their professional judgment, do not significantly conflict with what are reasonable for the purpose of the measurement.

ACFR Information

We have prepared the following information in this report for the Actuarial Section and Statistical Section of the ACFR: (i) member data tables in Section 3; (ii) summary of actuarial assumptions in Section 4.3; and (iii) historical information in Section 5.

Governmental Accounting Standards Board (GASB) Statement No. 74 (GASB 74) was effective for TRS DCR beginning with fiscal year ending June 30, 2017. Please see our separate GASB 74 report for other information needed for the ACFR.

Risk Information

Actuarial Standard of Practice No. 51 (ASOP 51) applies to actuaries performing funding calculations related to a pension plan. ASOP 51 does not apply to actuaries performing services in connection with other post-employment benefits, such as medical benefits. Accordingly, ASOP 51 does not apply to the retiree medical portion of TRS DCR. We also believe ASOP 51 does not apply to the occupational death & disability portion of TRS DCR. Therefore, information related to ASOP 51 is not included in this report. However, it may be beneficial to review the ASOP 51 information provided in the TRS valuation report for information on risks that may also relate to the occupational death & disability benefits provided by this plan.

Use of Models

Actuarial Standard of Practice No. 56 (ASOP 56) provides guidance to actuaries performing actuarial services that involve designing, developing, selecting, modifying, using, reviewing, or evaluating models. In addition to the EROA spreadsheet tool disclosed above, Gallagher uses third-party software to perform annual actuarial valuations and projections. The model is intended to calculate the liabilities associated with the provisions of the plan using data and assumptions as of the measurement date under the funding methods specified in this report. Gallagher also uses an internally developed model that applies applicable funding methods and policies to the liabilities derived from the third-party software and other inputs, such as plan assets and contributions, to generate many of the exhibits found in this report.

Gallagher maintains an extensive review process in which the results of the liability calculations are checked using detailed sample life output, changes from year to year are summarized by source, and significant deviations from expectations are investigated. Other funding outputs and the internal model are similarly reviewed in detail and at a higher level for accuracy, reasonability, and consistency with prior results. Gallagher also reviews the third-party model when significant changes are made to the software. This review is performed by experts within Gallagher who are familiar with applicable funding methods, as well as the manner in which the model generates its output. If significant changes are made to the internal model, extra checking and review are completed.

Gallagher used manual rate models to determine relative plan values for the defined benefit (DB) retiree medical plan and the DCR retiree medical plan, and to reflect the different Medicare coordination methods between the two plans. The manual rate models are intended to provide benchmark data and pricing capabilities, calculate per capita costs, and calculate actuarial values of different commercial health plans. Gallagher relied on the models, which were developed using industry data by actuaries and consultants at OptumInsight.

Actuarial Section

This report was prepared under the overall direction of David Kershner, who meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. He is a Fellow of the Society of Actuaries, an Enrolled Actuary, a Member of the American Academy of Actuaries, and a Fellow of the Conference of Consulting Actuaries.

We are available to discuss this report with you at your convenience. David can be reached at (602) 803-6174 and Brett can be reached at (260) 423-1072.

Respectfully submitted,



David J. Kershner, FSA, EA, MAAA, FCA
Principal



Brett Hunter, ASA, EA, MAAA
Senior Consultant

The undersigned actuary is responsible for all assumptions related to the average annual per capita health claims cost and the health care cost trend rates, and hereby affirms his qualification to render opinions in such matters in accordance with the Qualification Standards of the American Academy of Actuaries. Robert can be reached at (312) 399-9339.



Robert Besenhofer, ASA, MAAA, FCA
Director
Buck, A Gallagher Company

State of Alaska
Teachers' Retirement System
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Description of Actuarial Methods and Valuation Procedures

The funding method used in this valuation was adopted by the Board in October 2006, and was modified as part of the experience study for the period July 1, 2013 to June 30, 2017. The asset smoothing method used to determine valuation assets was implemented effective June 30, 2006.

Benefits valued are those delineated in Alaska State statutes as of the valuation date. Changes in State statutes effective after the valuation date are not taken into consideration in setting the assumptions and methods.

Valuation of Liabilities

A. Actuarial Method

Liabilities and contributions shown in the report are computed using the Entry Age Normal Actuarial Cost Method, level percent of pay. Each year's difference between actual and expected unfunded actuarial accrued liability is amortized over 25 years as a level percentage of expected payroll.

Cost factors designed to produce annual costs as a constant percentage of each member's expected compensation in each year for death & disability benefits and retiree medical benefits, from the assumed entry age to the last age with a future benefit, were applied to the projected benefits to determine the normal cost (the portion of the total cost of the plan allocated to the current year under the method). The normal cost is determined by summing intermediate results for active members and determining an average normal cost rate which is then related to the total TRS DCR payroll of active members. The actuarial accrued liability for active members (the portion of the total cost of the plan allocated to prior years under the method) was determined as the excess of the actuarial present value of projected benefits over the actuarial present value of future normal costs.

The actuarial accrued liability for beneficiaries and disabled members currently receiving benefits (if any) was determined as the actuarial present value of the benefits expected to be paid. No future normal costs are payable for these members.

The actuarial accrued liability under this method at any point in time is the theoretical amount of the fund that would have been accumulated had annual contributions equal to the normal cost been made in prior years (it does not represent the liability for benefits accrued to the valuation date). The unfunded actuarial accrued liability is the excess of the actuarial accrued liability over the actuarial value of plan assets measured on the valuation date.

Under this method, experience gains or losses, i.e., decreases or increases in accrued liabilities attributable to deviations in experience from the actuarial assumptions, adjust the unfunded actuarial accrued liability.

B. Valuation of Assets

Effective June 30, 2006, the asset valuation method recognizes 20% of the investment gain or loss in each of the current and preceding four years. This method was phased in over five years. Fair Value of Assets was \$0 as of June 30, 2006. All assets are valued at fair value. Assets are accounted for on an accrued basis and are taken directly from financial statements audited by KPMG LLP. Valuation assets are constrained to a range of 80% to 120% of the fair value of assets.

Actuarial Section

State of Alaska Teachers' Retirement System Defined Contribution Retirement Plan Description of Actuarial Methods and Valuation Procedures

C. Valuation of Retiree Medical and Prescription Drug Benefits

The methodology used for the valuation of the retiree medical benefits is described in Section 5.2 of the State of Alaska Teachers' Retirement System Defined Benefit Plan Actuarial Valuation Report as of June 30, 2024.

Starting in 2022, certain common preventive benefits are covered for the DB plan. Preventive benefits were already covered under the DCR plan, so the pre-65 DCR medical adjustment factor referenced below was increased from 3.1% to 4.4%.

Due to the lack of experience for the DCR retiree medical plan, base claims costs are based on those described in the actuarial valuation as of June 30, 2024 for the Defined Benefit (DB) retiree medical plan covering TRS and PERS. The DB rates were used with some adjustments. The claims costs were adjusted to reflect the differences between the DCR medical plan and the DB medical plan. These differences include network steerage, different coverage levels, different Medicare coordination for medical benefits, and an indexing of the retiree out-of-pocket dollar amounts. To account for higher initial copays, deductibles, and out-of-pocket limits, projected FY25 claims costs were reduced 4.4% for pre-Medicare medical claims, 3.1% for Medicare medical claims, and 8.9% for prescription drugs. In addition, to account for the difference in Medicare coordination, projected FY25 medical claims costs for Medicare eligible retirees were further reduced 29.5%.

FY23 and FY24 experience was thoroughly reviewed to assess the impact of COVID-19 and whether an adjustment to FY23 and FY24 claims was appropriate for use in the June 30, 2024 valuation. FY23 and FY24 per capita claims were reasonable when compared to pre-COVID levels, so no adjustments were made to the claims used in the per capita claims cost development.

No implicit subsidies are assumed. Employees projected to retire with 30 years of service prior to Medicare are valued with commencement deferred to Medicare eligibility, because those members will be required to pay the full plan premium prior to Medicare. Explicit subsidies for disabled and normal retirement are determined using the plan-defined percentages of age-related total projected plan costs, again with no implicit subsidy assumed.

The State transitioned to an Employer Group Waiver Program (EGWP) for DCR participants effective January 1, 2019. The estimated 2025 reimbursements under EGWP were provided by Segal Consulting, who worked with the EGWP administrator (Optum) to develop those estimates. The EGWP estimates increased significantly from 2024 to 2025, as a result of the Inflation Reduction Act, primarily due to increases in Direct Subsidy payments. In addition, retiree cost sharing is expected to decrease in 2025 based on the 2025 Standard Medicare Part D plan design. The estimated reimbursements under EGWP from fiscal years 2021 through 2025, trended to fiscal year 2025, were blended to develop the EGWP subsidies for the June 30, 2024 valuation. The first-year trend rate applied to EGWP per capita costs was also adjusted to reflect the increase in EGWP subsidies from CY 2024 to CY 2025.

State of Alaska
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Description of Actuarial Methods and Valuation Procedures

D. Healthcare Reform

Healthcare Reform legislation passed on March 23, 2010 included several provisions with potential implications for the State of Alaska Retiree Health Plan liability. Gallagher evaluated the impact due to these provisions.

Because the State plan is retiree-only, not all provisions are required. Unlimited lifetime benefits and dependent coverage to age 26 are two of these provisions. The adopted DCR plan does not place lifetime limits on benefits, but does restrict dependent child coverage.

The Further Consolidated Appropriations Act, 2020 passed in December 2019 repealed several healthcare-related taxes, including the Cadillac Tax.

The Tax Cuts and Jobs Act passed in December 2017 included the elimination of the individual mandate penalty and changed the inflation measure for purposes of determining the limits for the High Cost Excise Tax to use chained CPI. It is our understanding the law does not directly impact other provisions of the ACA. While the nullification of the ACA's individual mandate penalty does not directly impact employer group health plans, it could contribute to the destabilization of the individual market and increase the number of uninsured. Such destabilization could translate to increased costs for employers. We have considered this when setting our healthcare cost trend assumptions and will continue to monitor this issue.

The Inflation Reduction Act (IRA) was signed into law on August 16, 2022. The law contains several provisions that are expected to impact Alaska's Medicare prescription drug plan (EGWP) due to design and funding changes, the most meaningful of which are expected in 2025. The IRA is also expected to bend the trend curve through price control measures such as HHS's ability to negotiate prices for older, high-cost single source brand drugs (first effective in 2026) and through the imposition of rebates for drugs that increase in excess of inflation (first effective in 2023). We have adjusted the EGWP subsidy and the first-year trend that is applied to these subsidies for the June 30, 2024 valuation based on estimated reimbursements provided by Segal Consulting. Because of the significant increase in the EGWP subsidy for FY25 and beyond due to the IRA, and uncertainty regarding future subsidy levels, the ARMB has adopted a smoothing of EGWP subsidy estimates over five years. As further guidance and projections regarding the impact of the IRA become available, updates to these assumptions may be made for future measurement dates if deemed appropriate.

We have not identified any other specific provisions of healthcare reform or its potential repeal that would be expected to have a significant impact on the measured obligation. We will continue to monitor legislative activity.

E. Changes in Methods Since the Prior Valuation

There were no changes in the asset or valuation methods since the prior valuation.

Actuarial Section

State of Alaska Teachers' Retirement System Defined Contribution Retirement Plan Summary of Actuarial Assumptions and Changes in Assumptions

The demographic and economic assumptions used in the June 30, 2022 valuation are described below. Unless noted otherwise, these assumptions were adopted by the Board at the June 2022 meeting based on the experience study for the period July 1, 2017 to June 30, 2021.

- | | |
|-------------------------------------|--|
| 1. Investment Return | 7.25% per year, net of investment expenses. |
| 2. Salary Scale | Salary scale rates based on the 2017–2021 actual experience (see Table 1). Inflation – 2.50% per year. Productivity – 0.25% per year. |
| 3. Payroll Growth | 2.75% per year (2.50% inflation + 0.25% productivity). |
| 4. Total Inflation | Total inflation as measured by the Consumer Price Index for urban and clerical workers for Anchorage is assumed to increase 2.50% annually. |
| 5. Mortality
(Pre-commencement) | <p>Mortality rates based on the 2017–2021 actual experience, to the extent the experience was statistically credible.</p> <ul style="list-style-type: none">• Occupational Death & Disability: Pub-2010 Teachers Employee table, amount-weighted, and projected with MP-2021 generational improvement.• Healthcare: Pub-2010 Teachers Employee table, headcount-weighted, and projected with MP-2021 generational improvement. <p>Deaths are assumed to result from occupational causes 15% of the time.</p> |
| 6. Mortality
(Post-commencement) | <p>Mortality rates based on the 2017–2021 actual experience, to the extent the experience was statistically credible.</p> <p>Retiree mortality in accordance with the following tables:</p> <ul style="list-style-type: none">• Occupational Death & Disability: 97% of male and 97% of female rates of the Pub-2010 Teachers Retiree table, amount-weighted, and projected with MP-2021 generational improvement.• Healthcare: 98% of male and 100% of female rates of the Pub-2010 Teachers Retiree table, headcount-weighted, and projected with MP-2021 generational improvement. <p>Beneficiary mortality in accordance with the following tables. These tables are applied only after the death of the original member:</p> <ul style="list-style-type: none">• Occupational Death & Disability: 100% of male and 95% of female rates of the Pub-2010 Contingent Survivor table, amount-weighted, and projected with MP-2021 generational improvement.• Healthcare: 100% of male and 94% of female rates of the Pub-2010 Contingent Survivor table, headcount-weighted, and projected with MP-2021 generational improvement. |
| 7. Turnover | Select and ultimate rates based on the 2017–2021 actual experience (see Table 2). |

State of Alaska
Teachers' Retirement System
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Summary of Actuarial Assumptions and Changes in Assumptions

- | | |
|---|---|
| 8. Disability | <p>No changes to the incidence rates from the prior valuation due to insufficient 2017–2021 actual experience. For retiree medical benefits, the disability rates cease once a member is eligible for retirement. However, the disability rates continue after retirement eligibility for occupational death & disability benefits.</p> <p>Disabilities are assumed to be occupational 15% of the time.</p> <p>Post-disability mortality in accordance with the following tables:</p> <ul style="list-style-type: none">• Occupational Death & Disability: Pub-2010 Non-safety Disabled Retiree table, amount-weighted, and projected with MP-2021 generational improvement.• Healthcare: Pub-2010 Non-safety Disabled Retiree table, headcount-weighted, and projected with MP-2021 generational improvement. |
| 9. Retirement | Retirement rates based on the 2017–2021 actual experience. |
| 10. Spouse Age Difference | Male members are assumed to be three years older than their wives. Female members are assumed to be two years younger than husbands. |
| 11. Percent Married for Occupational Death & Disability | 85% of male members and 75% of female members are assumed to be married at termination from active service. |
| 12. Dependent Spouse Medical Coverage Election | Applies to members who do not have double medical coverage. 60% of male members and 50% of female members are assumed to be married and cover a dependent spouse. |
| 13. Part-Time Service | Part-time employees are assumed to earn 0.75 years of service per year. |
| 14. Imputed Data | Data changes from the prior year which are deemed to have immaterial impact on liabilities and contribution rates are assumed to be correct in the current year's client data. Non-vested terminations with appropriate refund dates are assumed to have received a full refund of contributions. Active members with missing salary and service are assumed to be terminated with status based on their vesting percentage. |

Actuarial Section

State of Alaska Teachers' Retirement System Defined Contribution Retirement Plan Summary of Actuarial Assumptions and Changes in Assumptions

15. Administrative Expenses The Normal Cost as of June 30, 2023 was increased by the following amounts. These amounts are based on the average of actual administrative expenses during the last two fiscal years.

- Occupational Death & Disability - \$10,000
- Healthcare - \$36,000

16. Retiree Medical
Participation

Death / Disability Decrement		Retirement Decrement	
Age	Participation	Age	Participation*
< 56	75.00%	55	50.00%
56	77.50	56	55.00
57	80.00	57	60.00
58	82.50	58	65.00
59	85.00	59	70.00
60	87.50	60	75.00
61	90.00	61	80.00
62	92.50	62	85.00
63	95.00	63	90.00
64	97.50	64	95.00
65+	100.00	65+	Years of Service
			< 15 75.00%
			15 - 19 80.00
			20 - 24 85.00
			25 - 29 90.00
			30+ 95.00

*Participation assumption is a combination of (i) the service-based rates for retirement from employment at age 65+ and (ii) the age-based rates for retirement from employment before age 65. These rates reflect the expected plan election rate that varies by reason for decrement, duration that a member may pay full cost prior to Medicare eligibility, and availability of alternative and/or lower cost options, particularly in the Medicare market. This assumption is based on observed trends in participation from a range of other plans.

17. Healthcare Per Capita
Claims Cost

Sample claims cost rates (before base claims cost adjustments described below) adjusted to age 65 for FY25 medical and prescription drugs are shown below. The prescription drug costs reflect the plan change to require prior authorization for certain specialty medications.

	Medical	Prescription Drugs
Pre-Medicare	\$ 18,503	\$ 4,103
Medicare Parts A & B	2,085	4,539
Medicare Part D – EGWP	N/A	1,586

Members are assumed to attain Medicare eligibility at age 65. All costs are for the 2025 fiscal year (July 1, 2024 – June 30, 2025).

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Summary of Actuarial Assumptions and Changes in Assumptions

The smoothed fiscal year 2025 EGWP subsidy assumption reflects a weighted blend of estimated reimbursements from fiscal years 2021 through 2025. Since estimated FY25 EGWP subsidies contained only 6 months of increased subsidy due to the IRA changes as of January 1, 2025, the first year EGWP subsidy trend is 30.20% taking into account the estimated FY26 subsidy has 12 months of increased subsidy. Thereafter, the EGWP subsidy is assumed to increase in future years by the trend rates shown on the following pages. No future legislative changes or other events are anticipated to impact the EGWP subsidy. If any legislative or other changes occur in the future that impact the EGWP subsidy (which could either increase or decrease the plan's Actuarial Accrued Liability), those changes will be evaluated and quantified when they occur.

**18. Base Claims Cost
Adjustments**

Due to higher initial copays, deductibles, out-of-pocket limits, and member cost sharing compared to the DB medical plan, the following cost adjustments are applied to the per capita claims cost rates above:

- 0.956 for the pre-Medicare plan
- 0.674 for both the Medicare medical plan and Medicare coordination method (3.1% reduction for the coordination method)
- 0.911 for the prescription drug plan

19. Healthcare Morbidity

Morbidity rates (also called aging factors) are used to estimate utilization of healthcare benefits at each age to reflect the fact that healthcare utilization typically increases with age. Separate morbidity rates are used for medical and prescription drug benefits. These rates are based on the 2017–2021 actual experience.

Age	Medical	Prescription Drugs
0 - 44	2.0%	4.5%
45 - 54	2.5	3.5
55 - 64	2.5	1.0
65 - 74	2.0	2.1
75 - 84	2.2	(0.3)
85 - 94	0.5	(2.5)
95+	-	-

**20. Healthcare Third Party
Administrator Fees**

\$442 per person per year; assumed to increase at 4.50% per year.

Actuarial Section

State of Alaska Teachers' Retirement System Defined Contribution Retirement Plan Summary of Actuarial Assumptions and Changes in Assumptions

21. Healthcare Cost Trend

The table below shows the rate used to project the cost from the shown fiscal year to the next fiscal year. For example, 6.40% is applied to the FY25 pre-Medicare medical claims costs to get the FY26 pre-Medicare medical claims costs.

Fiscal Year	Medical Pre-65	Medical Post-65	Prescription Drugs / EGWP
FY25	6.40%	5.40%	8.80%
FY26	6.20	5.40	8.50
FY27	6.05	5.35	8.20
FY28	5.85	5.35	7.90
FY29	5.65	5.30	7.45
FY30	5.45	5.30	7.05
FY31	5.30	5.30	6.60
FY32	5.30	5.30	6.15
FY33	5.30	5.30	5.70
FY34-FY38	5.30	5.30	5.30
FY39	5.25	5.25	5.30
FY40	5.20	5.20	5.30
FY41	5.10	5.10	5.20
FY42	5.05	5.05	5.10
FY43	4.95	4.95	5.00
FY44	4.90	4.90	4.90
FY45	4.80	4.80	4.85
FY46	4.75	4.75	4.75
FY47	4.70	4.70	4.70
FY48	4.60	4.60	4.65
FY49	4.55	4.55	4.55
FY50+	4.50	4.50	4.50

For the June 30, 2014 valuation and later, the updated Society of Actuaries' Healthcare Cost Trend Model is used to project medical and prescription drug costs. This model estimates trend amounts that are projected out for 80 years. The model has been populated with assumptions that are specific to the State of Alaska.

22. Changes in Assumptions Since the Prior Valuation

The healthcare per capita claims cost assumption is updated annually as described in Section 4.2. As a result of changes to the Standard Medicare Part D plan under the Inflation Reduction Act, EGWP subsidies are expected to be higher than originally anticipated for 2025 and beyond. EGWP subsidies were updated based on estimates provided by Segal Consulting. Because of the significant increase in the EGWP subsidy for FY25 and beyond due to the Inflation Reduction Act, and uncertainty regarding future subsidy levels, the ARMB has adopted a smoothing of EGWP subsidy estimates over five years. In addition, the prescription drug and EGWP trend assumption was updated to reflect recent survey information indicating higher than initial trend rates in part due to the recent higher-than-expected inflationary environment. There were no other changes in actuarial assumptions since the prior valuation.

Please note that the amounts included in the Normal Cost for administrative expenses remained at \$10,000 for occupational death & disability and \$36,000 for retiree medical (based on the most recent two years of actual administrative expenses paid from plan assets).

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Summary of Actuarial Assumptions and Changes in Assumptions

Table 1
Salary Scale

Years of Service	Percent Increase
< 1	7.25%
1	6.75
2	6.25
3	5.75
4	5.25
5	5.00
6	4.75
7	4.50
8	4.25
9	4.00
10	3.75
11	3.50
12	3.25
13	3.05
14	3.00
15	2.95
16	2.90
17+	2.85

Actuarial Section

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Teachers' Retirement System
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Table 2
Turnover Rates

Select Rates during the First 6 Years of Employment		
Years of Service	Male	Female
< 1	28.00%	31.00%
1	28.00	21.00
2	19.00	18.00
3	17.00	13.00
4	13.00	13.00
5	13.00	10.00

Ultimate Rates after the First 6 Years of Employment		
Age	Male	Female
< 30	10.50%	8.70%
30 - 34	10.50	8.70
35 - 39	10.40	8.60
40 - 44	10.30	8.60
45 - 49	10.00	8.40
50 - 54	9.50	8.10
55+	8.80	7.90
60 - 64	9.30	8.70
65+	10.90	7.40

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Table 3
Disability Rates

Age	Male	Female	Age	Male	Female
<31	0.0337%	0.0612%	50	0.0601%	0.1093%
31	0.0337	0.0613	51	0.0634	0.1152
32	0.0337	0.0613	52	0.0666	0.1211
33	0.0342	0.0622	53	0.0746	0.1356
34	0.0347	0.0631	54	0.0826	0.1501
35	0.0353	0.0641	55	0.0905	0.1645
36	0.0357	0.0650	56	0.0985	0.1790
37	0.0362	0.0659	57	0.1064	0.1935
38	0.0371	0.0674	58	0.1245	0.2263
39	0.0379	0.0689	59	0.1426	0.2592
40	0.0387	0.0703	60	0.1606	0.2920
41	0.0395	0.0718	61	0.1787	0.3249
42	0.0403	0.0733	62	0.1967	0.3577
43	0.0423	0.0770	63	0.2253	0.4096
44	0.0443	0.0806	64	0.2572	0.4677
45	0.0464	0.0843	65	0.2933	0.5332
46	0.0483	0.0879	66	0.3343	0.6079
47	0.0504	0.0916	67	0.3812	0.6930
48	0.0536	0.0975	68	0.4345	0.7900
49	0.0569	0.1034	69	0.4953	0.9006
			70+	0.5647	1.0267

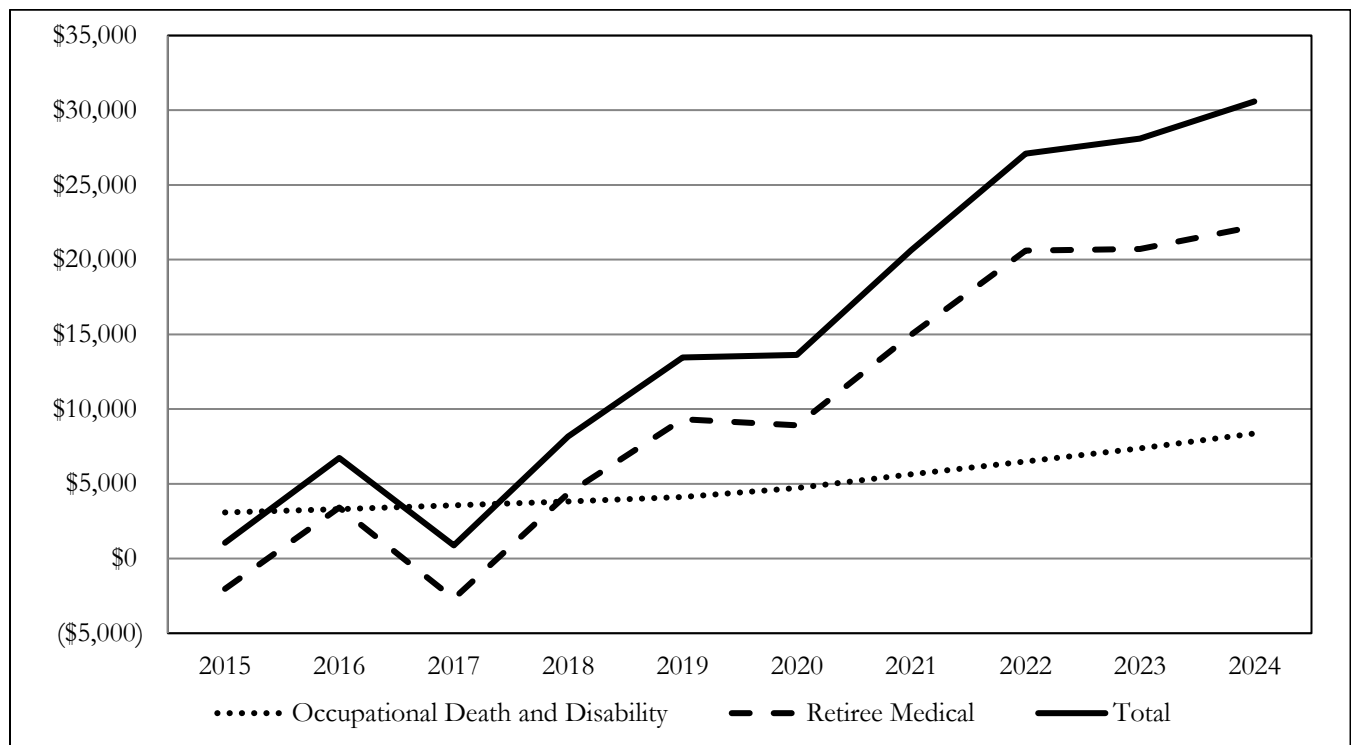
State of Alaska
Teachers' Retirement System
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Summary of Actuarial Assumptions and Changes in Assumptions

Table 4
Retirement Rates

Age	Rate
< 55	2.00%
55	3.00
56	3.00
57	3.00
58	3.00
59	3.00
60	5.00
61	5.00
62	10.00
63	5.00
64	5.00
65	25.00
66	25.00
67	25.00
68	20.00
69	20.00
70+	100.00

Teachers' Retirement System Defined Contribution Retirement Plan Occupational Death and Disability and Retiree Medical Benefits Funding Excess/(Unfunded Liability) (In thousands)				
Actuarial Valuation Year Ended June 30	Occupational Death and Disability	Retiree Medical	Total Funding Excess/ (Unfunded Liability)	Funded Ratio
2024	\$ 8,368	\$ 22,220	\$ 30,588	146.7%
2023	7,378	20,722	28,100	149.1
2022	6,501	20,606	27,107	156.5
2021	5,638	14,984	20,622	146.2
2020	4,710	8,920	13,630	133.4
2019	4,119	9,326	13,445	140.5
2018	3,815	4,347	8,162	125.1
2017	3,562	(2,683)	879	102.6
2016	3,304	3,422	6,726	130.6
2015	3,085	(2,035)	1,050	105.3

10-YEAR TREND OF FUNDING EXCESS/(UNFUNDED) LIABILITY
(In thousands)



Actuarial Section

Teachers' Retirement System Defined Contribution Retirement Plan Occupational Death and Disability and Retiree Medical Benefits Employer Contribution Rates					
Fiscal Year	Actuarial Valuation Year Ended June 30	Actuarially Determined			Adopted
		Occupational Death and Disability	Retiree Medical	Total Required	
2027	2024	0.08	0.75	0.83	0.83
2026	2023	0.08	0.74	0.82	0.82
2025	2022	0.08	0.68	0.76	0.76
2024	2021	0.08	0.82	0.90	0.90
2023	2020	0.08	0.87	0.95	0.95
2022	2019	0.08	0.83	0.91	0.91
2021	2018	0.08	0.93	1.01	1.01
2020	2017	0.08	1.09	1.17	1.17
2019	2016	0.08	0.79	0.87	0.87
2018	2015	—	0.91	0.91	0.91
Valuations are used to set contribution rates in future years.					

Teachers' Retirement System Defined Contribution Retirement Plan Occupational Death and Disability and Retiree Medical Benefits Schedule of Active Member Data					
Valuation Date	Number	Annual Earnings (In thousands)	Annual Average Earnings	Percent Increase / (Decrease) in Average Earnings	Number of Participating Employers
June 30, 2024	6,209	\$ 503,409	\$ 81,077	3.8%	57
June 30, 2023	5,877	459,105	78,119	1.5	57
June 30, 2022	5,688	437,728	76,956	3.9	57
June 30, 2021	5,521	408,805	74,045	4.1	57
June 30, 2020	5,332	379,201	71,118	2.2	57
June 30, 2019	4,998	347,957	69,619	2.2	57
June 30, 2018	4,915	334,803	68,119	2.4	57
June 30, 2017	4,694	312,347	66,542	2.0	57
June 30, 2016	4,383	285,854	65,219	2.5	58
June 30, 2015	4,095	260,584	63,635	2.7	58
Total and average annual earnings ("valuation pay") are the annualized earnings for the fiscal year ending on the valuation date.					

Actuarial Section

Teachers' Retirement System Defined Contribution Retirement Plan Occupational Death and Disability Plan Solvency Test (In thousands)							
Valuation Date	Occupational Death & Disability Actuarial Accrued Liability For:			Pension Valuation Assets	Portion of Actuarial Accrued Liabilities Covered by Assets:		
	(1) Active Member Contributions	(2) Inactive Members	(3) Active Members (Employer-Financed Portion)		(1)	(2)	(3)
June 30, 2024	\$ —	\$ 149	\$ 16	\$ 8,533	100.0%	100.0%	100.0%
June 30, 2023	—	167	23	7,568	100.0	100.0	100.0
June 30, 2022	—	174	25	6,700	100.0	100.0	100.0
June 30, 2021	—	177	28	5,843	100.0	100.0	100.0
June 30, 2020	—	196	27	4,933	100.0	100.0	100.0
June 30, 2019	—	209	31	4,359	100.0	100.0	100.0
June 30, 2018	—	—	30	3,845	100.0	100.0	100.0
June 30, 2017	—	—	26	3,588	100.0	100.0	100.0
June 30, 2016	—	—	19	3,323	100.0	100.0	100.0
June 30, 2015	—	—	29	3,114	100.0	100.0	100.0
Change in assumptions reflected in 2022, 2018, and 2014 valuation reports.							

Actuarial Section

Teachers' Retirement System Defined Contribution Retirement Plan Retiree Medical Plan Solvency Test (In thousands)							
Valuation Date	Retiree Medical Actuarial Accrued Liability For:			Healthcare Valuation Assets	Portion of Actuarial Accrued Liabilities Covered by Assets:		
	(1) Active Member Contributions	(2) Inactive Members	(3) Active Members (Employer-Financed Portion)		(1)	(2)	(3)
June 30, 2024	\$ —	\$ 3,321	\$ 62,017	\$ 87,558	100.0%	100.0%	100.0%
June 30, 2023	—	3,024	54,069	77,815	100.0	100.0	100.0
June 30, 2022	—	1,913	45,884	68,103	100.0	100.0	100.0
June 30, 2021	—	1,265	43,131	59,380	100.0	100.0	100.0
June 30, 2020	—	925	39,709	49,554	100.0	100.0	100.0
June 30, 2019	—	647	32,334	42,307	100.0	100.0	100.0
June 30, 2018	—	534	31,895	36,776	100.0	100.0	100.0
June 30, 2017	—	199	33,482	30,998	100.0	100.0	92.0
June 30, 2016	—	—	21,988	25,410	100.0	100.0	100.0
June 30, 2015	—	—	19,768	17,733	100.0	100.0	89.7
Change in assumptions reflected in 2022, 2020, 2018, 2017 and 2014 valuation reports. Change in methods reflected in 2018 valuation report. Change in plan provisions reflected in 2021 and 2016 valuation reports.							

Actuarial Section

Teachers' Retirement System Defined Contribution Retirement Plan Occupational Death and Disability Plan Schedule of Funding Progress (In thousands)						
Valuation Date June 30*	Total Actuarial Accrued Liability	Valuation Assets	Assets as a Percent of Actuarial Accrued Liability	Unfunded Actuarial Accrued Liability (UAAL)	Annual Active Member Payroll	UAAL as a Percent of Annual Active Member Payroll
2024	\$ 165	\$ 8,533	5,171.5%	\$ (8,368)	\$ 523,401	(1.6)%
2023	190	7,568	3,983.2	(7,378)	477,857	(1.5)
2022	199	6,700	3,366.8	(6,501)	455,927	(1.4)
2021	205	5,843	2,850.2	(5,638)	423,783	(1.3)
2020	223	4,933	2,212.1	(4,710)	391,854	(1.2)
2019	240	4,359	1,816.3	(4,119)	359,622	(1.1)
2018	30	3,845	12,816.7	(3,815)	346,044	(1.1)
2017	26	3,588	13,800.0	(3,562)	327,765	(1.1)
2016	19	3,323	17,489.5	(3,304)	300,750	(1.1)
2015	29	3,114	10,737.9	(3,085)	274,892	(1.1)
Change in assumptions reflected in 2022, 2020, 2018, 2017 and 2014 valuation reports.						

Teachers' Retirement System Defined Contribution Retirement Plan Retiree Medical Plan Schedule of Funding Progress (In thousands)						
Valuation Date June 30*	Total Actuarial Accrued Liability	Valuation Assets	Assets as a Percent of Actuarial Accrued Liability	Unfunded Actuarial Accrued Liability (UAAL)	Annual Active Member Payroll	UAAL as a Percent of Annual Active Member Payroll
2024	\$ 65,338	\$ 87,558	134.0%	\$ (22,220)	\$ 523,401	(4.2)%
2023	57,093	77,815	136.3	(20,722)	477,857	(4.3)
2022	47,797	68,403	143.1	(20,606)	455,927	(4.5)
2021	44,396	59,380	133.8	(14,984)	423,783	(3.5)
2020	40,634	49,554	122.0	(8,920)	391,854	(2.3)
2019	32,981	42,307	128.3	(9,326)	359,622	(2.6)
2018	32,429	36,776	113.4	(4,347)	346,044	(1.3)
2017	33,681	30,998	92.0	2,683	327,765	0.8
2016	21,988	25,410	115.6	(3,422)	300,750	(1.1)
2015	19,768	17,733	89.7	2,035	274,892	0.7
Change in assumptions reflected in 2022, 2020, 2018, 2017 and 2014 valuation reports. Change in methods reflected in 2018 valuation report. Change in plan provisions reflected in 2021 and 2016 valuation reports.						

Actuarial Section

State of Alaska Teachers' Retirement System Defined Contribution Retirement Plan Summary of Plan Provisions and Changes in Plan Provisions

1. Effective Date

July 1, 2006, with amendments through June 30, 2024.

2. Administration of Plan

The Commissioner of Administration or the Commissioner's designee is the administrator of the Plan. The Attorney General of the state is the legal counsel for the Plan and shall advise the administrator and represent the Plan in legal proceedings.

The Alaska Retirement Management Board prescribes policies, adopts regulations, invests the funds, and performs other activities necessary to carry out the provisions of the Plan.

3. Employers Included

Currently there are 57 employers participating in TRS DCR, including the State of Alaska, 53 school districts, and three other eligible organizations.

4. Membership

An employee of a participating employer who first enters service on or after July 1, 2006, or a member of the defined benefit plan who works for an employer who began participation on or after July 1, 2006, and meets the following criteria is a member in the Plan:

- Permanent full-time or part-time elementary or secondary teachers, school nurses, or a person in a position requiring a teaching certificate as a condition of hire in a public school of the State of Alaska, the Department of Education and Early Development, or in the Department of Labor and Workforce Development.
- Full-time or part-time teachers at the University of Alaska or persons occupying full-time administrative positions requiring academic standing who are not in the University's Optional Retirement Plan.

Members can convert to TRS DCR if they are an eligible non-vested member of the TRS defined benefit plan whose employer consents to transfers to the defined contribution plan and they elect to transfer his or her account balance to TRS DCR.

5. Member Contributions

Other than the member-paid premiums discussed later in this section, there are no member contributions for the occupational death & disability and retiree medical benefits.

State of Alaska
Teachers' Retirement System
Defined Contribution Retirement Plan
Summary of Plan Provisions and Changes in Plan Provisions

6. Retiree Medical Benefits

- Member must retire directly from the plan to be eligible for retiree medical coverage. Normal retirement eligibility is the earlier of a) 30 years of service or b) Medicare eligible and 10 years of service.
- No subsidized retiree medical benefits are provided until normal retirement eligibility. The member's and any covered dependent's premium is 100% until the member is Medicare eligible. Upon the member's Medicare-eligibility, the required contribution will follow the service-based schedule shown below.
- Coverage cannot be denied except for failure to pay premium.
- Members who are receiving disability benefits or survivors who are receiving monthly survivor benefits are not eligible until the member meets, or would have met if he/she had lived, the normal retirement eligibility requirements.
- The following is a summary of the medical benefit design adopted in July 2016. The plan description below is used for valuation purposes and indicates participant cost-sharing. Please refer to the benefit handbook for more details.

Plan Design Feature	In-Network⁽¹⁾	Out-of-Network⁽¹⁾⁽²⁾
Deductible (single/family)	\$300 / \$600	\$300 / \$600
Medical services (participant share)	20%	40%
Emergency Room Copay (non-emergent use)	\$100	\$100
Medical Out-of-Pocket Maximum (single / family, after deductible)	\$1,500 / \$3,000	\$3,000 / \$6,000
Medicare Coordination	Exclusion	Exclusion
Pharmacy	No Deductible	No Deductible
Retail Generic (per 30-day fill)	20% \$10 min / \$50 max	40%
Retail Non-Formulary Brand (per 30-day fill)	25% \$25 min / \$75 max	
Retail Formulary Brand (per 30-day fill)	35% \$80 min / \$150 max	
Mail-Order Generic	\$20 copay	40%
Mail-Order Non-Formulary Brand	\$50 copay	
Mail-Order Formulary Brand	\$100 copay	
Pharmacy Out-of-Pocket Max (single / family)	\$1,000 / \$2,000	\$1,000 / \$2,000
Medicare Pharmacy Arrangement	Retiree Drug Subsidy / Employer Group Waiver Plan Effective 1/1/2019	
Wellness / Preventative	100% covered, not subject to deductible	20%, after deductible

Actuarial Section

State of Alaska Teachers' Retirement System Defined Contribution Retirement Plan Summary of Plan Provisions and Changes in Plan Provisions

- Gallagher used manual rate models to determine relative plan values for the defined benefit (DB) retiree medical plan and the DCR retiree medical plan outlined above. We applied the ratio of the DCR retiree medical plan value to the DB retiree medical plan value to the per capita costs determined for each of pre/post-Medicare medical and pharmacy benefits to estimate corresponding values for the DCR retiree medical plan design. These factors are noted in Section 4.3. We further adjusted the Medicare medical manual rate to reflect the Medicare coordination method adopted. We reflect estimated discounts and pharmacy rebates in the defined benefit medical cost so no further adjustment was needed for the DCR retiree medical plan. The medical network differential is reflected in the relative plan value adjustments.
- Estimated calendar year 2025 reimbursements under EGWP were provided by Segal Consulting, who worked with the EGWP administrator (Optum) to develop those estimates. Estimated reimbursements from fiscal years 2021 through 2025 were blended, with higher weight given to more recent years, to determine the smoothed fiscal year 2025 and fiscal year 2026 reimbursements.
- Starting in 2022, prior authorization is required for certain specialty medications. There is no change to the medications that are covered by the plan.
- The retiree medical plan's coverage is supplemental to Medicare. Medicare coordination is described in the DCR Plan Handbook, referred to in the industry as exclusion coordination: Medicare payment is deducted from the Medicare allowable expense and plan parameters are applied to the remaining amount. Starting in 2019, the prescription drug coverage is through a Medicare Part D EGWP arrangement.
- The premium for Medicare-eligible retirees will be based on the member's years of service. The percentage of premium paid by the member is shown below:

Years of Service	Percent of Premium Paid by Member
< 15	30%
15 – 19	25
20 – 24	20
25 – 29	15
30+	10

- The premium for dependents who are not eligible for Medicare aligns with the member's subsidy. While a member is not Medicare-eligible, premiums are 100% of the estimated cost.
- Members have a separate defined contribution Health Reimbursement Arrangement account, which is not reflected in this valuation, that can be used to pay for premiums or other medical expenses.
- For valuation purposes, retiree premiums were assumed to equal the percentages outlined in the table above times the age-related plan costs. Future premiums calculated and charged to DCR participants will need to be determined reflecting any appropriate adjustments to the defined benefit (DB) plan data because current DB premiums were determined using information based upon enrollment with members who have double coverage.
- Coverage will continue for surviving spouses of covered retired members.

State of Alaska
Teachers' Retirement System
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Summary of Plan Provisions and Changes in Plan Provisions

7. Occupational Disability Benefits

- Benefit is 40% of salary at date of disability.
- Disability Benefit Adjustment: The disability benefit is increased by 75% of the cost-of-living increase in the preceding calendar year or 9%, whichever is less.
- Member earns service while on occupational disability.
- Benefits cease when the member becomes eligible for normal retirement at Medicare-eligible age and 10 years of service, or at any age with 30 years of service.
- No subsidized retiree medical benefits are provided until normal retirement eligibility. The member's premium is 100% of the estimated cost until they are Medicare eligible. Medicare-eligible premiums follow the service-based schedule above.

8. Occupational Death Benefits

- Benefit is 40% of salary.
- Survivor's Pension Adjustment: A survivor's pension is increased by 50% of the cost of living increase in the preceding calendar year or 6%, whichever is less, if the recipient is at least age 60 on July 1, or under age 60 if the recipient has been receiving TRS benefits for at least 8 years as of July 1.
- Benefits cease when the member would have become eligible for normal retirement.
- The period during which the survivor is receiving benefits is counted as service credit toward retiree medical benefits.
- No subsidized retiree medical benefits are provided until the member would have been eligible for normal retirement. The surviving spouse's premium is 100% of the estimated cost until the member would have been Medicare eligible. Medicare-eligible premiums follow the service-based schedule above.

9. Changes Since the Prior Valuation

There were no changes in benefit provisions since the prior valuation.