

State of Alaska

Teachers' Retirement System Defined Contribution Retirement Plan Occupational Death & Disability

Information Required
Under Governmental
Accounting
Standards Board
Statement No. 75 as
of June 30, 2019

November 2019

BUCK



November 20, 2019

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

**Re: GASB 75 Report as of June 30, 2019 for June 30, 2020 Reporting – TRS DCR
Occupational Death & Disability**

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

We have prepared the required accounting information for Governmental Accounting Standards Board (GASB) Statement No. 75 (GASB 75) for the State of Alaska Teachers' Retirement System Defined Contribution Retirement Plan (TRS DCR) for June 30, 2020 reporting based on a measurement date of June 30, 2019. Under GASB 75, accounting information prepared under GASB 74 as of June 30, 2019 (as previously provided) serves as the basis for these disclosures. Please refer to the GASB 74 report dated October 1, 2019 for any supplemental information or documentation.

This report covers the occupational death & disability portion of TRS DCR. A separate GASB 75 report will be issued for the retiree medical portion of TRS DCR.

We certify that the information contained in this report has been prepared in accordance with generally accepted actuarial principles and practices. To the best of our knowledge, the information fairly presents the actuarial position of TRS DCR in accordance with the requirements of GASB 75 as of the June 30, 2019 measurement date.

The Alaska Retirement Management Board (ARMB) and staff of the State of Alaska and its auditors may use this report for the review of the operation of TRS DCR. The report may also be used in the preparation of State of Alaska's and participating employers' audited financial statements. Use of this report for any other purpose or by anyone other than the ARMB, the staff of the State of Alaska or its auditors may not be appropriate and may result in mistaken conclusions because of failure to understand applicable assumptions, methods, or inapplicability of the report for that purpose. Because of the risk of misinterpretation of actuarial results, we recommend requesting our advanced review of any statement to be based on information contained in this report. Buck will accept no liability for any such statement made without prior review by Buck.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the economic and demographic 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. 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 report, except for the GASB 75 required disclosure of the sensitivity of net OPEB liability to changes in the discount rate.

The information in this report was prepared based on the actuarial assumptions and methods used in the June 30, 2018 actuarial valuation of TRS DCR, except as noted herein. We rolled forward the liabilities from that date to the June 30, 2019 measurement date, as GASB 75 permits. In our opinion, the actuarial assumptions used are appropriate for purposes of the valuation and are reasonably related to the experience of TRS DCR and to reasonable long-term expectations.

In preparing the actuarial results, we have relied upon information provided by staff of the State of Alaska regarding plan provisions, participants, assets, contributions and other matters used in the June 30, 2018 actuarial valuation of TRS DCR. Although we did not audit the data, we reviewed the data for reasonableness and consistency with June 30, 2017 information. The accuracy of the results presented herein is dependent on the accuracy of the data. We also reflected the information contained in the June 30, 2019 asset statements that were provided to us by staff of the State of Alaska on September 24, 2019.

Where presented, the “net OPEB liability” and “plan fiduciary net position as a percentage of the total OPEB liability” are measured on a market value of assets basis. These items presented may be appropriate for GASB 75 reporting but make no assessment regarding the cost to settle (i.e., purchase annuities) to cover any portion of the plan’s liabilities.

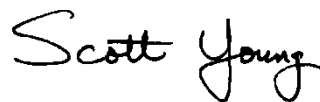
This report was prepared under our supervision and in accordance with all applicable Actuarial Standards of Practice. We are Fellows of the Society of Actuaries, Enrolled Actuaries and Members of the American Academy of Actuaries. We meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

We are available to discuss this report with you at your convenience. David can be reached at (602) 803-6174 and Scott can be reached at (216) 315-1929.

Respectfully submitted,



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



Scott Young, FSA, EA, MAAA
Director
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Section 1 – GASB 75 Information

OPEB Expense

| Measurement Date | June 30, 2019 | June 30, 2018 |
|--|---------------|---------------|
| Reporting Date | June 30, 2020 | June 30, 2019 |
| Service cost | \$ 275,000 | \$ 259,000 |
| Interest cost | 44,000 | 41,000 |
| Expected return on assets | (291,000) | (282,000) |
| Current period effect of benefit changes | 0 | 0 |
| Current period difference between expected and actual experience | (30,110) | (24,314) |
| Current period effect of changes in assumptions | (549) | 0 |
| Current period difference between projected and actual investment earnings | 9,600 | (1,600) |
| Member contributions | 0 | 0 |
| Administrative expenses | 0 | 0 |
| Service purchases and plan transfers | 0 | 0 |
| Current period recognition of prior years' deferred outflows of resources | 0 | 0 |
| Current period recognition of prior years' deferred inflows of resources | (58,329) | (32,415) |
| Other Additions Less Other Deductions | <u>0</u> | <u>0</u> |
| Total | \$ (51,388) | \$ (40,329) |

The employers' allocation of the OPEB expense for June 30, 2020 reporting is shown in Schedule C in the Appendix.

The difference between projected and actual investment earnings is recognized over 5 years.

The effects of changes in assumptions and differences between expected and actual experience are recognized over the average future working lifetime. This period is:

- 9.1 years as of June 30, 2018 (for the June 30, 2019 measurement date)
- 10.2 years as of June 30, 2017 (for the June 30, 2018 measurement date)

Actuarial Assumptions

The total OPEB liability as of the June 30, 2019 measurement date was determined by an actuarial valuation as of June 30, 2018 using the actuarial assumptions outlined in Section 2, and rolled forward to June 30, 2019.

The actuarial assumptions used in the June 30, 2018 actuarial valuation were based on the results of an actuarial experience study for the period July 1, 2013 to June 30, 2017, resulting in changes in actuarial assumptions adopted by the Alaska Retirement Management Board in January 2019 to better reflect expected future experience.

Actuarial Cost Method

Entry Age Normal – Level Percentage of Payroll

Asset Valuation Method

Invested assets are reported at fair value.

Allocation of Net OPEB Liability

The employers' allocations of net OPEB liability as of the June 30, 2018 and June 30, 2019 measurement dates are shown in Schedule A and Schedule B, respectively, in the Appendix.

Allocation of Deferred Outflows/Inflows of Resources

The employers' allocation of deferred outflows/inflows of resources as of the June 30, 2019 measurement date is shown in Schedule C in the Appendix.

The chart below provides details of the deferred inflows/outflows as of the June 30, 2019 measurement date:

| Date Created | Type | Original Amortization Period | Deferred (Inflow)/Outflow as of June 30, 2019 |
|---------------|-------------------|------------------------------|---|
| June 30, 2017 | Asset Gain | 5 years | \$ (62,000) |
| June 30, 2017 | Liability Gain | 10.6 years | \$ (10,755) |
| June 30, 2018 | Asset Gain | 5 years | \$ (4,800) |
| June 30, 2018 | Liability Gain | 10.2 years | \$ (199,373) |
| June 30, 2019 | Assumption Change | 9.1 years | \$ (4,451) |
| June 30, 2019 | Asset Loss | 5 years | \$ 38,400 |
| June 30, 2019 | Liability Gain | 9.1 years | \$ (243,890) |

Allocation of Future Years' Recognition of Deferred Outflows/Inflows

The employers' allocation of recognition of the deferred outflows/inflows as of the June 30, 2019 measurement date for each of the next five fiscal years and thereafter is shown in Schedule D in the Appendix. These amounts include recognition of the deferred outflows/inflows from prior years.

Allocation Methodology

Amounts for the June 30, 2018 measurement date were allocated to employers using the FY2018 TRS DCR retiree medical allocation methodology.

Amounts for the June 30, 2019 measurement date were allocated to employers based on each employer's occupational death and disability contribution relative to the total employer occupational death and disability contributions made in FY2019.

Sensitivity of the net OPEB liability to changes in the discount rate.

The table below shows the development of the net OPEB liability as of June 30, 2019 using the discount rate of 7.38%, as well as a discount rate that is one percentage point lower (6.38%) or one percentage point higher (8.38%) than the current rate (\$ in thousands):

| | 1.00% Decrease (6.38%) | Current Discount Rate (7.38%) | 1.00% Increase (8.38%) |
|--|---------------------------|-------------------------------------|---------------------------|
| Service cost | \$ 294 | \$ 275 | \$ 257 |
| Interest | 39 | 44 | 49 |
| Benefit payments | (24) | (24) | (24) |
| Net change to inflows/outflows | <u>(289)</u> | <u>(279)</u> | <u>(268)</u> |
| Net change in total OPEB liability | \$ 20 | \$ 16 | \$ 14 |
| Total OPEB liability-beginning | \$ 273 | \$ 291 | \$ 301 |
| Total OPEB liability-ending (a) | \$ 293 | \$ 307 | \$ 315 |
| Plan fiduciary net position-ending (b) | \$ 4,328 | \$ 4,328 | \$ 4,328 |
| Plan's net OPEB liability (asset)-ending (a)-(b) | \$ (4,035) | \$ (4,021) | \$ (4,013) |

Section 2 – Actuarial Assumptions and Methods¹

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.

Actuarial Method

Entry Age Normal Cost

Liabilities and contributions shown in the report are computed using the Entry Age Normal Actuarial Cost Method. Any funding surplus or unfunded actuarial accrued liability is amortized over 25 years as a level percentage of expected payroll. However, in keeping with GASB requirements in effect when the plan was adopted, the net amortization period will not exceed 30 years. Under the new accounting standards (GASB 74 and 75), the GASB requirements will not directly control amortization periods used for funding of the plan.

Cost factors designed to produce annual costs as a constant percentage of each member's expected compensation in each year for death and 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 DCR Plan 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.

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

¹ Used to determine June 30, 2018 funding assets and liabilities, and contribution rates.

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.

Changes in Methods Since the Prior Valuation

The actuarial cost method for the retiree healthcare plan was changed from the Entry Age Level Dollar method to the Entry Age Level Percent of Pay method. There were no other changes in the asset or valuation methods since the prior valuation.

Valuation of Retiree Medical and Prescription Drug Benefits

The methodology used for the valuation of the retiree medical benefits is described in Section 6.2 of the State of Alaska Teachers' Retirement System Defined Benefit Plan Actuarial Valuation Report as of June 30, 2018.

Due to the lack of experience for the DCR retiree medical plan only, base claims costs are based on those described in the actuarial valuation as of June 30, 2018 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, upcoming FY19 claims costs were reduced 2.1% for medical claims, and 10.4% for prescription drugs. In addition, to account for the difference in Medicare coordination, upcoming FY19 medical claims costs for Medicare eligible retirees were further reduced 29.3%. The medical and prescription drug percentages mentioned above were reduced 0.2% in each future year for the DCR medical benefits to reflect the fact that the medical benefit to be offered to DCR members will have annual indexing of member cost sharing features such as deductibles and out-of-pocket amounts.

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. In the prior valuation, the impact of transitioning to the EGWP was valued by increasing the RDS subsidy offset in 2019 by 60% to reflect estimated Medicare reimbursements under the EGWP arrangement. For this year's valuation, the estimated 2019 reimbursements under EGWP were provided by Segal Consulting (who worked with the EGWP administrator, Optum, to develop those estimates).

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. Buck 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 Plan will be subject to the high cost plan excise tax (Cadillac tax) and the value of the Health Reimbursement Account must be included along with projected plan costs. Based upon guidance available at the valuation date, Buck estimated the tax based upon a blend of pre and post-Medicare projected costs and enrollment projections.

- A blended test compares a weighted average per capita cost (based upon proportions of pre/post Medicare eligible enrollments) to the tax cost thresholds in each projection year. Projected enrollment

was based upon the current enrollment data provided by Aetna, and valuation headcount projections for future years.

- We included administrative fees and applied Retiree Drug Subsidy / EGWP reimbursements to the Medicare rates.

We assumed claim costs would increase according to valuation trend assumptions from the June 30, 2018 valuation, and that the tax cost thresholds would increase at 2.25% (the CPI assumption of 2.50% less .25% to estimate the impact of using the chained CPI as required by the Tax Cut and Jobs Act passed in December 2017). The first year increased at 3.25% to reflect the additional 1.0% over inflation assumption.

We determined the impact to be approximately \$0.4M of the projected June 30, 2018 healthcare actuarial accrued liability for the DCR plan.

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.

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.

Actuarial Assumptions

The demographic and economic assumptions used in the June 30, 2018 valuation are described below. Unless noted otherwise, these assumptions were adopted by the Board in January 2019 based on the experience study for the period July 1, 2013 to June 30, 2017.

Investment Return

7.38% per year, net of investment expenses.

Salary Scale

Salary scale rates based upon the 2013-2017 actual experience (see Table 1).

Inflation – 2.50% per year.

Productivity – 0.25% per year.

Payroll Growth

2.75% per year. (Inflation + Productivity).

Total Inflation

Total inflation as measured by the Consumer Price Index for urban and clerical workers for Anchorage is assumed to be 2.50% annually.

Mortality (Pre-termination)

Mortality rates based upon the 2013-2017 actual experience.

RP-2014 white-collar employee table with MP-2017 generational improvement.

Mortality (Post-termination)

Mortality rates based upon the 2013-2017 actual experience.

93% of male and 90% of female rates of RP-2014 white-collar healthy annuitant table with MP-2017 generational improvement.

Turnover

Select and ultimate rates based upon the 2013-2017 actual experience (see Table 2).

Disability

Incidence rates based upon the 2013-2017 actual experience (see Table 3).

Disabilities are assumed to be occupational 15% of the time.

Post-disability mortality in accordance with the RP-2014 disabled table with MP-2017 generational improvement.

Retirement

Retirement rates based upon the 2013-2017 actual experience (see Table 4).

Spouse Age Difference

Males are assumed to be three years older than their wives. Females are assumed to be two years younger than husbands.

Percent Married for Occupational Death & Disability

85% of male members and 75% female members are assumed to be married at termination from active service.

Dependent Spouse Medical Coverage Election

Applies to members who do not have dual medical coverage. 65% of male members and 60% female members are assumed to be married and cover a dependent spouse.

Part-Time Status

Part-time employees are assumed to earn 0.75 years of service per year.

Per Capita Claims Cost

Sample claims cost rates (before base claims cost adjustments described below) adjusted to age 65 for FY19 medical benefits are shown below:

| | Medical | Prescription Drugs |
|------------------------|-----------|-----------------------|
| Pre-Medicare | \$ 13,535 | \$ 3,360 |
| Medicare Parts A & B | \$ 1,468 | \$ 3,764 |
| Medicare Part D – RDS | N/A | \$ 527 |
| Medicare Part D – EGWP | N/A | \$ 1,039 |

Members are assumed to attain Medicare eligibility at age 65. The EGWP cost shown above is for calendar year 2019. All other costs are for the 2019 fiscal year (July 1, 2018 – June 30, 2019).

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.

Third Party Administrator Fees

\$300 per person per year; assumed trend rate of 4.5% per year.

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:

- 0.979 for the pre-Medicare plan.
- 0.686 for both the Medicare medical plan and Medicare coordination method (2.1% reduction for the medical plan and 29.3% reduction for the coordination method).

- 0.896 for the prescription drug plan.

Active Data Adjustment

To reflect participants who terminate employment before the valuation date and are subsequently rehired after the valuation date, participants who are listed as terminated on the June 30 client data but active in the October 1 client records are updated to active status.

Administrative Expenses

Beginning with the June 30, 2018 valuation, the Normal Cost is increased for administrative expenses expected to be paid from plan assets during the year. The amounts included in the June 30, 2018 Normal Cost, which are based on the average of actual administrative expenses during the last two fiscal years, are \$6,150 for occupational death & disability and \$7,700 for retiree medical.

Health 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, 7.5% is applied to the FY19 pre-Medicare medical claims cost to get the FY20 medical claims cost.

| | Medical Pre-65 | Medical Post-65 | Prescription Drugs / EGWP | RDS / EGWP |
|-----------|-------------------|--------------------|------------------------------|------------|
| FY19 | 7.5% | 5.5% | 8.5% | 4.7% |
| FY20 | 7.0% | 5.4% | 8.0% | 4.7% |
| FY21 | 6.5% | 5.4% | 7.5% | 4.6% |
| FY22 | 6.3% | 5.4% | 7.1% | 4.6% |
| FY23 | 6.1% | 5.4% | 6.8% | 4.6% |
| FY24 | 5.9% | 5.4% | 6.4% | 4.6% |
| FY25 | 5.8% | 5.4% | 6.1% | 4.6% |
| FY26 | 5.6% | 5.4% | 5.7% | 4.6% |
| FY27-FY40 | 5.4% | 5.4% | 5.4% | 4.5% |
| FY41 | 5.3% | 5.3% | 5.3% | 4.5% |
| FY42 | 5.2% | 5.2% | 5.2% | 4.5% |
| FY43 | 5.1% | 5.1% | 5.1% | 4.5% |
| FY44 | 5.1% | 5.1% | 5.1% | 4.5% |
| FY45 | 5.0% | 5.0% | 5.0% | 4.5% |
| FY46 | 4.9% | 4.9% | 4.9% | 4.5% |
| FY47 | 4.8% | 4.8% | 4.8% | 4.5% |
| FY48 | 4.7% | 4.7% | 4.7% | 4.5% |
| FY49 | 4.6% | 4.6% | 4.6% | 4.5% |
| FY50+ | 4.5% | 4.5% | 4.5% | 4.5% |

For the June 30, 2014 valuations 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 projected out for 80 years. The model has been populated with assumptions that are specific to the State of Alaska. The model was updated this year to use the newest version and incorporate recent trend survey information, which generated the updated trend rates shown above.

The table below shows the amount each trend rate shown on the previous page was increased by to account for the Cadillac Tax:

| Fiscal Year | Pre-65 | Post-65 | Fiscal Year | Pre-65 | Post-65 |
|--------------------|---------------|----------------|--------------------|---------------|----------------|
| FY19-FY44 | 0.00% | 0.00% | FY77 | 0.20% | 0.50% |
| FY45 | 0.00% | 0.12% | FY78 | 0.20% | 0.49% |
| FY46 | 0.00% | 0.29% | FY79 | 0.19% | 0.48% |
| FY47 | 0.00% | 0.27% | FY80 | 0.19% | 0.46% |
| FY48 | 0.00% | 0.25% | FY81 | 0.18% | 0.45% |
| FY49 | 0.00% | 0.25% | FY82 | 0.18% | 0.44% |
| FY50 | 0.00% | 0.20% | FY83 | 0.18% | 0.43% |
| FY51 | 0.00% | 0.20% | FY84 | 0.17% | 0.42% |
| FY52 | 0.06% | 0.16% | FY85 | 0.17% | 0.41% |
| FY53 | 0.06% | 0.16% | FY86 | 0.16% | 0.40% |
| FY54 | 0.06% | 0.15% | FY87 | 0.16% | 0.39% |
| FY55 | 0.06% | 0.15% | FY88 | 0.16% | 0.38% |
| FY56 | 0.05% | 0.14% | FY89 | 0.15% | 0.37% |
| FY57 | 0.06% | 0.14% | FY90 | 0.15% | 0.37% |
| FY58 | 0.05% | 0.13% | FY91 | 0.15% | 0.36% |
| FY59 | 0.05% | 0.12% | FY92 | 0.15% | 0.35% |
| FY60 | 0.05% | 0.15% | FY93 | 0.14% | 0.34% |
| FY61 | 0.05% | 0.61% | FY94 | 0.14% | 0.33% |
| FY62 | 0.05% | 0.59% | FY95 | 0.14% | 0.33% |
| FY63 | 0.05% | 0.61% | FY96 | 0.13% | 0.32% |
| FY64 | 0.05% | 0.64% | FY97 | 0.13% | 0.31% |
| FY65 | 0.05% | 0.65% | FY98 | 0.13% | 0.30% |
| FY66 | 0.05% | 0.64% | FY99 | 0.13% | 0.30% |
| FY67 | 0.14% | 0.64% | FY00 | 0.12% | 0.29% |
| FY68 | 0.24% | 0.63% | FY01 | 0.12% | 0.28% |
| FY69 | 0.24% | 0.61% | FY02 | 0.12% | 0.28% |
| FY70 | 0.23% | 0.60% | FY03 | 0.12% | 0.27% |
| FY71 | 0.23% | 0.58% | FY04 | 0.11% | 0.27% |
| FY72 | 0.22% | 0.57% | FY05 | 0.11% | 0.26% |
| FY73 | 0.22% | 0.55% | FY06 | 0.11% | 0.25% |
| FY74 | 0.21% | 0.54% | FY07 | 0.11% | 0.25% |
| FY75 | 0.21% | 0.53% | FY08 | 0.10% | 0.24% |
| FY76 | 0.20% | 0.51% | FY09 | 0.10% | 0.24% |

Aging Factors

| Age | Medical | Prescription Drugs |
|-------|---------|--------------------|
| 0-44 | 2.0% | 4.5% |
| 45-54 | 2.5% | 3.5% |
| 55-64 | 2.5% | 1.5% |
| 65-74 | 3.0% | 2.0% |
| 75-84 | 2.0% | -0.5% |
| 85-95 | 0.3% | -2.5% |
| 96+ | 0.0% | 0.0% |

Retiree Medical Participation

| Decrement Due to Disability | | Decrement Due to Retirement | |
|-----------------------------|-----------------------|-----------------------------|-------------------------|
| Age | Percent Participation | Age | Percent Participation* |
| <56 | 75.0% | 55 | 50.0% |
| 56 | 77.5% | 56 | 55.0% |
| 57 | 80.0% | 57 | 60.0% |
| 58 | 82.5% | 58 | 65.0% |
| 59 | 85.0% | 59 | 70.0% |
| 60 | 87.5% | 60 | 75.0% |
| 61 | 90.0% | 61 | 80.0% |
| 62 | 92.5% | 62 | 85.0% |
| 63 | 95.0% | 63 | 90.0% |
| 64 | 97.5% | 64 | 95.0% |
| 65+ | 100.0% | 65+ | Years of Service |
| | | | <15 75.0% |
| | | | 15 – 19 80.0% |
| | | | 20 – 24 85.0% |
| | | | 25 – 29 90.0% |
| | | | 30+ 95.0% |

* 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.

Imputed Data

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.

Changes in Assumptions Since the Prior Valuation

Effective for the June 30, 2018 valuation, the Board adopted the changes to the demographic and economic assumptions recommended by the actuary, based on the results of an experience study performed on the population experience from July 1, 2013 to June 30, 2017. The changes in assumptions were adopted at the January 2019 Board meeting.

Table 1: Salary Scale

| Years of Service | Percent Increase |
|-------------------------|-------------------------|
| 0 | 6.75% |
| 1 | 6.25 |
| 2 | 5.75 |
| 3 | 5.25 |
| 4 | 4.75 |
| 5 | 4.25 |
| 6 | 3.75 |
| 7 | 3.65 |
| 8 | 3.55 |
| 9 | 3.45 |
| 10 | 3.35 |
| 11 | 3.25 |
| 12 | 3.15 |
| 13 | 3.05 |
| 14 | 2.95 |
| 15 | 2.85 |
| 16+ | 2.75 |

Table 2: Turnover Rates

Select Rates during the First 6 Years of Employment

| Years of Service | Male | Female |
|-------------------------|-------------|---------------|
| 0 | 20.70% | 21.80% |
| 1 | 19.55 | 18.70 |
| 2 | 16.10 | 15.40 |
| 3 | 13.80 | 13.20 |
| 4 | 11.50 | 11.00 |
| 5 | 7.32 | 8.05 |

Ultimate Rates After First 6 Years of Employment

| Age | Male | Female | Age | Male | Female |
|------------|-------------|---------------|------------|-------------|---------------|
| < 26 | 9.41% | 8.31% | 45 | 9.05% | 8.09% |
| 26 | 9.41 | 8.32 | 46 | 8.99 | 8.07 |
| 27 | 9.40 | 8.33 | 47 | 8.94 | 8.04 |
| 28 | 9.39 | 8.32 | 48 | 8.86 | 8.00 |
| 29 | 9.39 | 8.32 | 49 | 8.78 | 7.95 |
| 30 | 9.38 | 8.31 | 50 | 8.70 | 7.91 |
| 31 | 9.37 | 8.31 | 51 | 8.62 | 7.86 |
| 32 | 9.36 | 8.30 | 52 | 8.54 | 7.82 |
| 33 | 9.35 | 8.29 | 53 | 8.37 | 7.73 |
| 34 | 9.35 | 8.28 | 54 | 8.20 | 7.64 |
| 35 | 9.34 | 8.27 | 55 | 8.03 | 7.55 |
| 36 | 9.34 | 8.26 | 56 | 7.86 | 7.46 |
| 37 | 9.33 | 8.25 | 57 | 7.69 | 7.36 |
| 38 | 9.31 | 8.24 | 58 | 7.76 | 7.50 |
| 39 | 9.29 | 8.22 | 59 | 7.82 | 7.64 |
| 40 | 9.26 | 8.21 | 60 | 7.89 | 7.78 |
| 41 | 9.24 | 8.19 | 61 | 7.95 | 7.92 |
| 42 | 9.22 | 8.17 | 62 | 8.02 | 8.05 |
| 43 | 9.16 | 8.15 | 63 | 8.59 | 8.29 |
| 44 | 9.11 | 8.12 | 64 | 9.17 | 8.52 |
| | | | 65+ | 9.75 | 8.75 |

Table 3: Disability Rates

| Age | Male | Female |
|------------|-------------|---------------|
| < 31 | 0.0337% | 0.0612% |
| 31 | 0.0337 | 0.0613 |
| 32 | 0.0337 | 0.0613 |
| 33 | 0.0342 | 0.0622 |
| 34 | 0.0347 | 0.0631 |
| 35 | 0.0353 | 0.0641 |
| 36 | 0.0357 | 0.0650 |
| 37 | 0.0362 | 0.0659 |
| 38 | 0.0371 | 0.0674 |
| 39 | 0.0379 | 0.0689 |
| 40 | 0.0387 | 0.0703 |
| 41 | 0.0395 | 0.0718 |
| 42 | 0.0403 | 0.0733 |
| 43 | 0.0423 | 0.0770 |
| 44 | 0.0443 | 0.0806 |
| 45 | 0.0464 | 0.0843 |
| 46 | 0.0483 | 0.0879 |
| 47 | 0.0504 | 0.0916 |
| 48 | 0.0536 | 0.0975 |
| 49 | 0.0569 | 0.1034 |
| 50 | 0.0601 | 0.1093 |
| 51 | 0.0634 | 0.1152 |
| 52 | 0.0666 | 0.1211 |
| 53 | 0.0746 | 0.1356 |
| 54 | 0.0826 | 0.1501 |

Table 4: Retirement Rates

| Age | Rate |
|------------|-------------|
| < 55 | 2.0% |
| 55 | 3.0 |
| 56 | 3.0 |
| 57 | 3.0 |
| 58 | 3.0 |
| 59 | 3.0 |
| 60 | 5.0 |
| 61 | 5.0 |
| 62 | 10.0 |
| 63 | 5.0 |
| 64 | 5.0 |
| 65 | 25.0 |
| 66 | 25.0 |
| 67 | 25.0 |
| 68 | 20.0 |
| 69 | 20.0 |
| 70+ | 100.0 |

Section 3 – Summary of Plan Provisions

Effective Date

July 1, 2006, with amendments through June 30, 2018.

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.

Employers Included

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

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.

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.

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 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-Network¹ | 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) | \$1,200 / \$2,400 | \$2,400 / \$4,800 |
| Medicare Coordination | Exclusion | Exclusion |
| Pharmacy | No Deductible | No Deductible |
| Retail Generic (per 30-day fill): | 20% \$10 min / \$50 max | |
| Retail Non-Formulary Brand (per 30-day fill): | 25% \$25 min / \$75 max | 40% |
| Retail Formulary Brand (per 30-day fill): | 35% \$80 min / \$150 max | |
| Mail-Order Generic: | \$20 copay | |
| Mail-Order Non-Formulary Brand: | \$50 copay | 40% |
| 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%, Not subject to deductible | |

¹ Assumed to increase annually to mitigate impact of healthcare cost trend

² OON applies only to non-Medicare eligible participants.

- Buck used its manual rate models to determine relative plan values for the defined benefit (DB) retiree medical plan and the adopted 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 adopted DCR retiree medical plan design. These factors are noted in Section 5.3. We further adjusted the Medicare medical manual rate to reflect the Medicare coordination method adopted. In the prior valuation, the RDS subsidy offset in 2019 was increased by 60% to reflect estimated Medicare reimbursements under the Employer Group Waiver Plan (EGWP) arrangement. For this year’s valuation, the estimated 2019 reimbursements under EGWP were provided by Segal Consulting (who worked with the EGWP administrator, Optum, to develop those estimates). 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.
- The retiree medical plan’s coverage is supplemental to Medicare. Medicare coordination is described in the 2018 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 will be 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 as follows:

| Years of Service | Percent of Premium Paid by Member |
|-------------------------|--|
| Less than 15 years | 30% |
| 15 – 19 | 25% |
| 20 – 24 | 20% |
| 25 – 29 | 15% |
| 30 years or more | 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 dual coverage members.
- Coverage will continue for surviving spouses of covered retired members.

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.

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.

Changes Since the Prior Valuation

There have been no changes in TRS DCR benefit provisions valued since the prior valuation.

Appendix

State of Alaska Teachers' Retirement System DCR - Occupational Death & Disability
Schedule A - Employers' Allocation of Net OPEB Liability as of 6/30/2018

| Employer Number | Employer Name | Employer Proportion* | Total OPEB Liability | Plan Fiduciary Net Position | Net OPEB Liability | Total Deferred Outflows | Total Deferred Inflows | Plan Fiduciary Net Position as % of Total OPEB Liability | Covered Payroll | Net OPEB Liability as % of Covered Payroll | Net OPEB Liability 1% Decrease Discount Rate (7.0% Discount Rate) | Net OPEB Liability 1% Increase Discount Rate (9.0% Discount Rate) |
|-----------------|------------------------------------|----------------------|----------------------|-----------------------------|--------------------|-------------------------|------------------------|--|--------------------|--|---|---|
| 701 | ANCHORAGE SD | 30.94564% | 90,052 | 1,175,006 | (1,084,954) | 6,364 | (105,888) | | | | (1,090,524) | (1,081,860) |
| 704 | CORDOVA CITY SD | 0.19997% | 582 | 7,593 | (7,011) | 967 | (1,707) | | | | (7,047) | (6,991) |
| 705 | CRAIG CITY SD | 0.27544% | 802 | 10,458 | (9,657) | 468 | (923) | | | | (9,706) | (9,629) |
| 706 | FAIRBANKS NORTH STAR BOROUGH SD | 8.66246% | 25,208 | 328,914 | (303,706) | - | (36,103) | | | | (305,265) | (302,840) |
| 707 | HAINES BOROUGH SD | 0.26024% | 757 | 9,881 | (9,124) | 3,110 | (872) | | | | (9,171) | (9,098) |
| 708 | HOONAH CITY SD | 0.17474% | 509 | 6,635 | (6,127) | - | (2,038) | | | | (6,158) | (6,109) |
| 709 | HYDABURG CITY SD | 0.07053% | 205 | 2,678 | (2,473) | 1,749 | (236) | | | | (2,485) | (2,466) |
| 710 | JUNEAU BOROUGH SD | 3.20396% | 9,324 | 121,654 | (112,331) | 1,345 | (13,563) | | | | (112,907) | (112,010) |
| 712 | KAKE CITY SD | 0.19499% | 567 | 7,404 | (6,836) | 388 | (897) | | | | (6,872) | (6,817) |
| 714 | KETCHIKAN GATEWAY BOROUGH SD | 1.68279% | 4,897 | 63,896 | (58,999) | 1,396 | (8,481) | | | | (59,302) | (58,830) |
| 717 | KLAWOCK CITY SD | 0.12861% | 374 | 4,883 | (4,509) | 505 | (1,182) | | | | (4,532) | (4,496) |
| 718 | KODIAK ISLAND BOROUGH SD | 2.38509% | 6,941 | 90,562 | (83,621) | 9,507 | (12,689) | | | | (84,051) | (83,383) |
| 719 | NENANA CITY SD | 0.24934% | 726 | 9,468 | (8,742) | 1,262 | (1,664) | | | | (8,787) | (8,717) |
| 720 | NOME CITY SD | 0.73078% | 2,127 | 27,748 | (25,621) | 1,591 | (4,522) | | | | (25,753) | (25,548) |
| 722 | MATANUSKA-SUSITNA BOROUGH SD | 10.96155% | 31,898 | 416,210 | (384,312) | 1,807 | (47,853) | | | | (386,285) | (383,216) |
| 723 | PELICAN CITY SD | 0.01773% | 52 | 673 | (622) | 6 | (94) | | | | (625) | (620) |
| 724 | PETERSBURG CITY SD | 0.34303% | 998 | 13,025 | (12,027) | 1,053 | (4,232) | | | | (12,088) | (11,992) |
| 727 | SITKA BOROUGH SD | 1.05811% | 3,079 | 40,177 | (37,097) | 423 | (4,081) | | | | (37,288) | (36,992) |
| 728 | SKAGWAY CITY SD | 0.17875% | 520 | 6,787 | (6,267) | - | (2,379) | | | | (6,299) | (6,249) |
| 729 | UNALASKA CITY SD | 0.41567% | 1,210 | 15,783 | (14,573) | 1,609 | (3,446) | | | | (14,648) | (14,532) |
| 730 | VALDEZ CITY SD | 0.38899% | 1,132 | 14,770 | (13,638) | 1,403 | (4,612) | | | | (13,708) | (13,599) |
| 731 | WRANGELL PUBLIC SD | 0.24708% | 719 | 9,382 | (8,663) | 543 | (1,228) | | | | (8,707) | (8,638) |
| 732 | YAKUTAT SD | 0.07807% | 227 | 2,964 | (2,737) | - | (1,450) | | | | (2,751) | (2,729) |
| 733 | UNIVERSITY OF ALASKA | 2.28045% | 6,636 | 86,589 | (79,952) | 453 | (8,209) | | | | (80,363) | (79,724) |
| 735 | GALENA CITY SD | 0.67487% | 1,964 | 25,625 | (23,661) | - | (4,037) | | | | (23,782) | (23,593) |
| 736 | NORTH SLOPE BOROUGH SD | 3.34807% | 9,743 | 127,126 | (117,383) | 3,135 | (20,078) | | | | (117,986) | (117,049) |
| 737 | STATE OF ALASKA | 3.99991% | 1,164 | 15,184 | (14,021) | 1,398 | (2,513) | | | | (14,093) | (13,981) |
| 742 | BRISTOL BAY BOROUGH SD | 0.16851% | 490 | 6,398 | (5,908) | 1,192 | (2,188) | | | | (5,938) | (5,891) |
| 743 | SOUTHEAST REGIONAL RESOURCE CENTER | 0.08862% | 258 | 3,365 | (3,107) | 1,557 | (297) | | | | (3,123) | (3,098) |
| 744 | DILLINGHAM CITY SD | 0.64164% | 1,867 | 24,363 | (22,496) | 3,477 | (3,839) | | | | (22,611) | (22,432) |
| 746 | KENAI PENINSULA BOROUGH SD | 6.59816% | 19,201 | 250,532 | (231,332) | - | (24,301) | | | | (232,519) | (230,672) |
| 748 | SAINT MARY'S SD | 0.12629% | 368 | 4,795 | (4,428) | 1,623 | (423) | | | | (4,451) | (4,415) |
| 751 | NORTHWEST ARCTIC BOROUGH SD | 3.32102% | 9,664 | 126,099 | (116,435) | 1,431 | (16,852) | | | | (117,033) | (116,103) |
| 752 | BERING STRAIT SD | 3.55685% | 10,350 | 135,054 | (124,703) | 5,395 | (11,925) | | | | (125,343) | (124,347) |
| 753 | LOWER YUKON SD | 2.37694% | 6,917 | 90,253 | (83,336) | 12,561 | (7,969) | | | | (83,763) | (83,098) |
| 754 | LOWER KUSKOKWIM SD | 4.78120% | 13,913 | 181,542 | (167,629) | 6,514 | (18,926) | | | | (168,490) | (167,151) |
| 755 | KUSPUK SD | 0.54525% | 1,587 | 20,703 | (19,116) | 974 | (2,101) | | | | (19,215) | (19,062) |
| 756 | SOUTHWEST REGION SD | 1.10470% | 3,215 | 41,945 | (38,731) | 348 | (5,663) | | | | (38,929) | (38,620) |
| 757 | LAKE AND PENINSULA BOROUGH SD | 0.81608% | 2,375 | 30,986 | (28,612) | 2,302 | (4,211) | | | | (28,759) | (28,530) |
| 758 | ALEUTIAN REGION SD | 0.08447% | 246 | 3,207 | (2,962) | 207 | (283) | | | | (2,977) | (2,953) |
| 759 | PRIBILOF SD | 0.10569% | 308 | 4,013 | (3,706) | 1,067 | (354) | | | | (3,725) | (3,695) |
| 761 | IDITAROD AREA SD | 0.31672% | 922 | 12,026 | (11,104) | 2,145 | (4,366) | | | | (11,161) | (11,073) |
| 762 | YUKON / KOYUKUK SD | 0.84981% | 2,473 | 32,267 | (29,795) | 2,042 | (3,914) | | | | (29,947) | (29,710) |
| 763 | YUKON FLATS SD | 0.38278% | 1,114 | 14,534 | (13,420) | 3,019 | (1,283) | | | | (13,489) | (13,382) |
| 764 | DENALI BOROUGH SD | 0.32999% | 960 | 12,530 | (11,570) | 459 | (2,614) | | | | (11,629) | (11,537) |
| 765 | DELTA/GREELY SD | 0.50768% | 1,477 | 19,277 | (17,799) | 585 | (1,855) | | | | (17,891) | (17,748) |
| 766 | ALASKA GATEWAY SD | 0.45725% | 1,331 | 17,362 | (16,031) | - | (3,719) | | | | (16,114) | (15,986) |
| 767 | COPPER RIVER SD | 0.33115% | 964 | 12,574 | (11,610) | 308 | (4,225) | | | | (11,670) | (11,577) |
| 768 | CHATHAM SD | 0.23642% | 688 | 8,977 | (8,289) | 384 | (1,448) | | | | (8,331) | (8,265) |
| 769 | SOUTHEAST ISLAND SD | 0.33676% | 980 | 12,787 | (11,807) | 790 | (1,129) | | | | (11,868) | (11,773) |
| 770 | ANNETTE ISLAND SD | 0.51015% | 1,485 | 19,370 | (17,886) | - | (2,829) | | | | (17,978) | (17,835) |
| 771 | CHUGACH SD | 0.10500% | 306 | 3,987 | (3,681) | 113 | (437) | | | | (3,700) | (3,671) |
| 775 | TANANA SD | 0.06189% | 180 | 2,350 | (2,170) | 1,036 | (846) | | | | (2,181) | (2,164) |
| 777 | KASHUNAMIUT SD | 0.40429% | 1,176 | 15,351 | (14,174) | 1,636 | (2,467) | | | | (14,247) | (14,134) |
| 778 | YUPIIT SD | 0.72221% | 2,102 | 27,422 | (25,321) | 2,605 | (2,421) | | | | (25,451) | (25,248) |
| 779 | SPECIAL EDUCATION SERVICE AGENCY | 0.18568% | 540 | 7,050 | (6,510) | - | (1,115) | | | | (6,543) | (6,491) |
| 780 | ALEUTIANS EAST BOROUGH SD | 0.38991% | 1,135 | 14,805 | (13,670) | 1,539 | (2,068) | | | | (13,740) | (13,631) |
| Total | | 100.00000% | 291,000 | 3,797,000 | (3,506,000) | 95,789 | (431,045) | 1304.81% | 327,765,000 | -1.07% | (3,524,000) | (3,496,000) |

All amounts are determined without rounding. Rounded amounts are displayed.

*Based on Retiree Medical contributions

State of Alaska Teachers' Retirement System DCR - Occupational Death & Disability
 Schedule B - Employers' Allocation of Net OPEB Liability as of 6/30/2019

| Employer Number | Employer Name | FY2019 Employer Contributions | Employer Proportion | Total OPEB Liability | Plan Fiduciary Net Position | Net OPEB Liability | Total Deferred Outflows | Total Deferred Inflows | Plan Fiduciary Net Position as % of Total OPEB Liability | Covered Payroll | Net OPEB Liability as % of Covered Payroll | Net OPEB Liability 1% Decrease Discount Rate (6.38% Discount Rate) |
|-----------------|------------------------------------|-------------------------------------|------------------------|----------------------------|-----------------------------------|--------------------------|-------------------------------|------------------------------|--|--------------------|---|---|
| 701 | ANCHORAGE SD | 96,597 | 30.94603% | 95,004 | 1,339,344 | (1,244,340) | 5,653 | (152,575) | | | | (1,248,672) |
| 704 | CORDOVA CITY SD | 705 | 0.22581% | 693 | 9,773 | (9,080) | 862 | (2,744) | | | | (9,111) |
| 705 | CRAIG CITY SD | 775 | 0.24836% | 762 | 10,749 | (9,987) | 1,181 | (1,209) | | | | (10,021) |
| 706 | FAIRBANKS NORTH STAR BOROUGH SD | 27,525 | 8.81797% | 27,071 | 381,642 | (354,571) | - | (53,565) | | | | (355,805) |
| 707 | HAINES BOROUGH SD | 839 | 0.26873% | 825 | 11,631 | (10,806) | 2,762 | (1,548) | | | | (10,843) |
| 708 | HOONAH CITY SD | 629 | 0.20162% | 619 | 8,726 | (8,107) | - | (3,026) | | | | (8,136) |
| 709 | HYDABURG CITY SD | 203 | 0.06501% | 200 | 2,813 | (2,614) | 1,702 | (316) | | | | (2,623) |
| 710 | JUNEAU BOROUGH SD | 9,657 | 3.09383% | 9,498 | 133,901 | (124,403) | 4,300 | (17,577) | | | | (124,836) |
| 712 | KAKE CITY SD | 597 | 0.19132% | 587 | 8,280 | (7,693) | 447 | (1,148) | | | | (7,720) |
| 714 | KETCHIKAN GATEWAY BOROUGH SD | 5,419 | 1.73615% | 5,330 | 75,141 | (69,811) | 1,234 | (12,487) | | | | (70,054) |
| 717 | KLAWOCK CITY SD | 327 | 0.10476% | 322 | 4,534 | (4,212) | 1,123 | (1,473) | | | | (4,227) |
| 718 | KODIAK ISLAND BOROUGH SD | 7,047 | 2.25770% | 6,931 | 97,713 | (90,782) | 12,072 | (15,139) | | | | (91,098) |
| 719 | NENANA CITY SD | 912 | 0.29212% | 897 | 12,643 | (11,746) | 1,125 | (3,361) | | | | (11,787) |
| 720 | NOME CITY SD | 2,206 | 0.70671% | 2,170 | 30,586 | (28,417) | 2,086 | (5,288) | | | | (28,516) |
| 722 | MATANUSKA-SUSITNA BOROUGH SD | 35,154 | 11.26201% | 34,574 | 487,420 | (452,845) | 1,610 | (73,109) | | | | (454,422) |
| 723 | PELICAN CITY SD | 53 | 0.01701% | 52 | 736 | (684) | 26 | (113) | | | | (686) |
| 724 | PETERSBURG CITY SD | 990 | 0.31703% | 973 | 13,721 | (12,748) | 1,664 | (4,290) | | | | (12,792) |
| 727 | SITKA BOROUGH SD | 3,349 | 1.07284% | 3,294 | 46,433 | (43,139) | 377 | (6,110) | | | | (43,289) |
| 728 | SKAGWAY CITY SD | 505 | 0.16163% | 496 | 6,995 | (6,499) | 483 | (2,365) | | | | (6,522) |
| 729 | UNALASKA CITY SD | 1,315 | 0.42120% | 1,293 | 18,230 | (16,937) | 1,422 | (4,036) | | | | (16,995) |
| 730 | VALDEZ CITY SD | 1,612 | 0.51646% | 1,586 | 22,352 | (20,767) | 1,251 | (9,035) | | | | (20,839) |
| 731 | WRANGELL PUBLIC SD | 744 | 0.23820% | 731 | 10,309 | (9,578) | 735 | (1,513) | | | | (9,612) |
| 732 | YAKUTAT SD | 208 | 0.06661% | 204 | 2,883 | (2,678) | 324 | (1,377) | | | | (2,688) |
| 733 | UNIVERSITY OF ALASKA | 7,695 | 2.46514% | 7,568 | 106,691 | (99,123) | 404 | (17,710) | | | | (99,469) |
| 735 | GALENA CITY SD | 2,249 | 0.72047% | 2,212 | 31,182 | (28,970) | - | (6,367) | | | | (29,071) |
| 736 | NORTH SLOPE BOROUGH SD | 10,516 | 3.36880% | 10,342 | 145,802 | (135,459) | 2,770 | (24,873) | | | | (135,931) |
| 737 | STATE OF ALASKA | 1,394 | 0.44658% | 1,371 | 19,328 | (17,957) | 1,235 | (4,665) | | | | (18,020) |
| 742 | BRISTOL BAY BOROUGH SD | 496 | 0.15876% | 487 | 6,871 | (6,384) | 1,329 | (2,220) | | | | (6,406) |
| 743 | SOUTHEAST REGIONAL RESOURCE CENTER | 295 | 0.09448% | 290 | 4,089 | (3,799) | 1,387 | (625) | | | | (3,812) |
| 744 | DILLINGHAM CITY SD | 2,051 | 0.65699% | 2,017 | 28,434 | (26,418) | 3,073 | (5,135) | | | | (26,510) |
| 746 | KENAI PENINSULA BOROUGH SD | 19,979 | 6.40052% | 19,650 | 277,015 | (257,365) | 5,586 | (33,095) | | | | (258,261) |
| 748 | SAINT MARY'S SD | 571 | 0.18286% | 561 | 7,914 | (7,353) | 1,442 | (2,487) | | | | (7,379) |
| 751 | NORTHWEST ARCTIC BOROUGH SD | 10,740 | 3.44070% | 10,563 | 148,914 | (138,351) | 1,265 | (25,222) | | | | (138,832) |
| 752 | BERING STRAIT SD | 10,445 | 3.34606% | 10,272 | 144,817 | (134,545) | 10,734 | (16,291) | | | | (135,013) |
| 753 | LOWER YUKON SD | 6,768 | 2.16809% | 6,656 | 93,835 | (87,179) | 17,046 | (10,556) | | | | (87,482) |
| 754 | LOWER KUSKOKWIM SD | 14,286 | 4.57656% | 14,050 | 198,073 | (184,023) | 11,587 | (24,842) | | | | (184,664) |
| 755 | KUSPUK SD | 1,675 | 0.53655% | 1,647 | 23,222 | (21,575) | 1,114 | (2,853) | | | | (21,650) |
| 756 | SOUTHWEST REGION SD | 3,596 | 1.15212% | 3,537 | 49,864 | (46,327) | 310 | (8,678) | | | | (46,488) |
| 757 | LAKE AND PENINSULA BOROUGH SD | 1,684 | 0.53935% | 1,656 | 23,343 | (21,687) | 9,845 | (3,941) | | | | (21,763) |
| 758 | ALEUTIAN REGION SD | 189 | 0.06060% | 186 | 2,623 | (2,437) | 857 | (295) | | | | (2,445) |
| 759 | PRIBILOF SD | 283 | 0.09068% | 278 | 3,925 | (3,646) | 1,372 | (441) | | | | (3,659) |
| 761 | IDITAROD AREA SD | 1,070 | 0.34277% | 1,052 | 14,835 | (13,783) | 1,912 | (5,323) | | | | (13,831) |
| 762 | YUKON / KOYUKUK SD | 3,167 | 1.01464% | 3,115 | 43,914 | (40,799) | 1,805 | (10,540) | | | | (40,941) |
| 763 | YUKON FLATS SD | 1,258 | 0.40316% | 1,238 | 17,449 | (16,211) | 2,687 | (2,537) | | | | (16,267) |
| 764 | DENALI BOROUGH SD | 984 | 0.31521% | 968 | 13,642 | (12,674) | 827 | (2,867) | | | | (12,719) |
| 765 | DELTA/GREELEY SD | 1,587 | 0.50843% | 1,561 | 22,005 | (20,444) | 517 | (2,633) | | | | (20,515) |
| 766 | ALASKA GATEWAY SD | 1,752 | 0.56120% | 1,723 | 24,289 | (22,566) | - | (7,602) | | | | (22,645) |
| 767 | COPPER RIVER SD | 1,049 | 0.33621% | 1,032 | 14,551 | (13,519) | 272 | (4,555) | | | | (13,566) |
| 768 | CHATHAM SD | 791 | 0.25342% | 778 | 10,968 | (10,190) | 343 | (2,292) | | | | (10,226) |
| 769 | SOUTHEAST ISLAND SD | 976 | 0.31258% | 960 | 13,529 | (12,569) | 1,386 | (1,522) | | | | (12,613) |
| 770 | ANNETTE ISLAND SD | 1,656 | 0.53042% | 1,628 | 22,957 | (21,328) | - | (4,144) | | | | (21,403) |
| 771 | CHUGACH SD | 425 | 0.13603% | 418 | 5,888 | (5,470) | 100 | (1,613) | | | | (5,489) |
| 775 | TANANA SD | 211 | 0.06774% | 208 | 2,932 | (2,724) | 915 | (2,733) | | | | (2,733) |
| 777 | KASHUNAMIUT SD | 1,183 | 0.37899% | 1,164 | 16,403 | (15,239) | 2,161 | (2,836) | | | | (15,292) |
| 778 | YUPIIT SD | 1,868 | 0.59855% | 1,838 | 25,905 | (24,068) | 5,810 | (2,914) | | | | (24,151) |
| 779 | SPECIAL EDUCATION SERVICE AGENCY | 722 | 0.23139% | 710 | 10,015 | (9,304) | - | (2,855) | | | | (9,337) |
| 780 | ALEUTIANS EAST BOROUGH SD | 1,170 | 0.37482% | 1,151 | 16,222 | (15,071) | 1,798 | (2,497) | | | | (15,124) |
| Total | | 312,145 | 100.00% | 307,000 | 4,328,000 | (4,021,000) | 134,327 | (621,195) | 1409.77% | 346,044,000 | -1.16% | (4,035,000) |

All amounts are determined without rounding. Rounded amounts are displayed.

State of Alaska Teachers' Retirement System DCR - Occupational Debt
 Schedule B - Employers' Allocation of Net OPEB Liability as of 6/30/20

| Employer Number | Employer Name | Net OPEB Liability 1% Increase Discount Rate (8.38% Discount Rate) |
|-----------------|------------------------------------|--|
| 701 | ANCHORAGE SD | (1,241,864) |
| 704 | CORDOVA CITY SD | (9,062) |
| 705 | CRAIG CITY SD | (9,967) |
| 706 | FAIRBANKS NORTH STAR BOROUGH SD | (353,865) |
| 707 | HAINES BOROUGH SD | (10,784) |
| 708 | HOONAH CITY SD | (8,091) |
| 709 | HYDABURG CITY SD | (2,609) |
| 710 | JUNEAU BOROUGH SD | (124,155) |
| 712 | KAKE CITY SD | (7,678) |
| 714 | KETCHIKAN GATEWAY BOROUGH SD | (69,672) |
| 717 | KLAWOCK CITY SD | (4,204) |
| 718 | KODIAK ISLAND BOROUGH SD | (90,601) |
| 719 | NENANA CITY SD | (11,723) |
| 720 | NOME CITY SD | (28,360) |
| 722 | MATANUSKA-SUSITNA BOROUGH SD | (451,944) |
| 723 | PELICAN CITY SD | (683) |
| 724 | PETERSBURG CITY SD | (12,722) |
| 727 | SITKA BOROUGH SD | (43,053) |
| 728 | SKAGWAY CITY SD | (6,486) |
| 729 | UNALASKA CITY SD | (16,903) |
| 730 | VALDEZ CITY SD | (20,725) |
| 731 | WRANGELL PUBLIC SD | (9,559) |
| 732 | YAKUTAT SD | (2,673) |
| 733 | UNIVERSITY OF ALASKA | (98,926) |
| 735 | GALENA CITY SD | (28,912) |
| 736 | NORTH SLOPE BOROUGH SD | (135,190) |
| 737 | STATE OF ALASKA | (17,921) |
| 742 | BRISTOL BAY BOROUGH SD | (6,371) |
| 743 | SOUTHEAST REGIONAL RESOURCE CENTER | (3,792) |
| 744 | DILLINGHAM CITY SD | (26,365) |
| 746 | KENAI PENINSULA BOROUGH SD | (256,853) |
| 748 | SAINT MARY'S SD | (7,338) |
| 751 | NORTHWEST ARCTIC BOROUGH SD | (138,075) |
| 752 | BERING STRAIT SD | (134,277) |
| 753 | LOWER YUKON SD | (87,005) |
| 754 | LOWER KUSKOKWIM SD | (183,657) |
| 755 | KUSPUK SD | (21,532) |
| 756 | SOUTHWEST REGION SD | (46,235) |
| 757 | LAKE AND PENINSULA BOROUGH SD | (21,644) |
| 758 | ALEUTIAN REGION SD | (2,432) |
| 759 | PRIBILOF SD | (3,639) |
| 761 | IDITAROD AREA SD | (13,755) |
| 762 | YUKON / KOYUKUK SD | (40,718) |
| 763 | YUKON FLATS SD | (16,179) |
| 764 | DENALI BOROUGH SD | (12,649) |
| 765 | DELTA/GREELY SD | (20,403) |
| 766 | ALASKA GATEWAY SD | (22,521) |
| 767 | COPPER RIVER SD | (13,492) |
| 768 | CHATHAM SD | (10,170) |
| 769 | SOUTHEAST ISLAND SD | (12,544) |
| 770 | ANNETTE ISLAND SD | (21,286) |
| 771 | CHUGACH SD | (5,459) |
| 775 | TANANA SD | (2,718) |
| 777 | KASHUNAMIUT SD | (15,209) |
| 778 | YUPIIT SD | (24,020) |
| 779 | SPECIAL EDUCATION SERVICE AGENCY | (9,286) |
| 780 | ALEUTIANS EAST BOROUGH SD | (15,041) |
| Total | | (4,013,000) |

All amounts are determined without rounding. Rounded amounts are displayed.

State of Alaska Teachers' Retirement System DCR - Occupational Death & Disability
 Schedule C - Employers' Allocation of OPEB Amounts as of 6/30/2019

| Employer Number | Employer Name | Net OPEB Liability | Employer Proportion | Deferred Outflows of Resources | | | | Deferred Inflows of Res | | | | | |
|-----------------|------------------------------------|--------------------|---------------------|---|------------------------|---------------------|---|--|-------------------------|---|------------------------|---------------------|---|
| | | | | Difference Between Expected and Actual Experience | Changes in Assumptions | Changes in Benefits | Difference Between Projected and Actual Investment Earnings | Changes in Proportion and Differences Between Employer Contributions | Total Deferred Outflows | Difference Between Expected and Actual Experience | Changes in Assumptions | Changes in Benefits | Difference Between Projected and Actual Investment Earnings |
| 701 | ANCHORAGE SD | (1,244,340) | 30.94603% | - | - | - | - | 5,653 | 5,653 | (140,500) | (1,377) | - | (8,789) |
| 704 | CORDOVA CITY SD | (9,080) | 0.22581% | - | - | - | - | 862 | 862 | (1,025) | (10) | - | (64) |
| 705 | CRAIG CITY SD | (9,987) | 0.24836% | - | - | - | - | 1,181 | 1,181 | (1,128) | (11) | - | (71) |
| 706 | FAIRBANKS NORTH STAR BOROUGH SD | (354,571) | 8.81797% | - | - | - | - | - | - | (40,035) | (392) | - | (2,504) |
| 707 | HAINES BOROUGH SD | (10,806) | 0.26873% | - | - | - | - | 2,762 | 2,762 | (1,220) | (12) | - | (76) |
| 708 | HOONAH CITY SD | (8,107) | 0.20162% | - | - | - | - | - | - | (915) | (9) | - | (57) |
| 709 | HYDABURG CITY SD | (2,614) | 0.06501% | - | - | - | - | 1,702 | 1,702 | (295) | (3) | - | (18) |
| 710 | JUNEAU BOROUGH SD | (124,403) | 3.09383% | - | - | - | - | 4,300 | 4,300 | (14,047) | (138) | - | (879) |
| 712 | KAKE CITY SD | (7,693) | 0.19132% | - | - | - | - | 447 | 447 | (869) | (9) | - | (54) |
| 714 | KETCHIKAN GATEWAY BOROUGH SD | (69,811) | 1.73615% | - | - | - | - | 1,234 | 1,234 | (7,882) | (77) | - | (493) |
| 717 | KLAWOCK CITY SD | (4,212) | 0.10476% | - | - | - | - | 1,123 | 1,123 | (476) | (5) | - | (30) |
| 718 | KODIAK ISLAND BOROUGH SD | (90,782) | 2.25770% | - | - | - | - | 12,072 | 12,072 | (10,250) | (100) | - | (641) |
| 719 | NENANA CITY SD | (11,746) | 0.29212% | - | - | - | - | 1,125 | 1,125 | (1,326) | (13) | - | (83) |
| 720 | NOME CITY SD | (28,417) | 0.70671% | - | - | - | - | 2,086 | 2,086 | (3,209) | (31) | - | (201) |
| 722 | MATANUSKA-SUSITNA BOROUGH SD | (452,845) | 11.26201% | - | - | - | - | 1,610 | 1,610 | (51,131) | (501) | - | (3,198) |
| 723 | PELICAN CITY SD | (684) | 0.01701% | - | - | - | - | 26 | 26 | (77) | (1) | - | (5) |
| 724 | PETERSBURG CITY SD | (12,748) | 0.31703% | - | - | - | - | 1,664 | 1,664 | (1,439) | (14) | - | (90) |
| 727 | SITKA BOROUGH SD | (43,139) | 1.07284% | - | - | - | - | 377 | 377 | (4,871) | (48) | - | (305) |
| 728 | SKAGWAY CITY SD | (6,499) | 0.16163% | - | - | - | - | 483 | 483 | (734) | (7) | - | (46) |
| 729 | UNALASKA CITY SD | (16,937) | 0.42120% | - | - | - | - | 1,422 | 1,422 | (1,912) | (19) | - | (120) |
| 730 | VALDEZ CITY SD | (20,767) | 0.51646% | - | - | - | - | 1,251 | 1,251 | (2,345) | (23) | - | (147) |
| 731 | WRANGELL PUBLIC SD | (9,578) | 0.23820% | - | - | - | - | 735 | 735 | (1,081) | (11) | - | (68) |
| 732 | YAKUTAT SD | (2,678) | 0.06661% | - | - | - | - | 324 | 324 | (302) | (3) | - | (19) |
| 733 | UNIVERSITY OF ALASKA | (99,123) | 2.46514% | - | - | - | - | 404 | 404 | (11,192) | (110) | - | (700) |
| 735 | GALENA CITY SD | (28,970) | 0.72047% | - | - | - | - | - | - | (3,271) | (32) | - | (205) |
| 736 | NORTH SLOPE BOROUGH SD | (135,459) | 3.36880% | - | - | - | - | 2,770 | 2,770 | (15,295) | (150) | - | (957) |
| 737 | STATE OF ALASKA | (17,957) | 0.44658% | - | - | - | - | 1,235 | 1,235 | (2,028) | (20) | - | (127) |
| 742 | BRISTOL BAY BOROUGH SD | (6,384) | 0.15876% | - | - | - | - | 1,329 | 1,329 | (721) | (7) | - | (45) |
| 743 | SOUTHEAST REGIONAL RESOURCE CENTER | (3,799) | 0.09448% | - | - | - | - | 1,387 | 1,387 | (429) | (4) | - | (27) |
| 744 | DILLINGHAM CITY SD | (26,418) | 0.65699% | - | - | - | - | 3,073 | 3,073 | (2,983) | (29) | - | (187) |
| 746 | KENAI PENINSULA BOROUGH SD | (257,365) | 6.40052% | - | - | - | - | 5,586 | 5,586 | (29,059) | (285) | - | (1,818) |
| 748 | SAINT MARY'S SD | (7,353) | 0.18286% | - | - | - | - | 1,442 | 1,442 | (830) | (8) | - | (52) |
| 751 | NORTHWEST ARCTIC BOROUGH SD | (138,351) | 3.44070% | - | - | - | - | 1,265 | 1,265 | (15,621) | (153) | - | (977) |
| 752 | BERING STRAIT SD | (134,545) | 3.34606% | - | - | - | - | 10,734 | 10,734 | (15,192) | (149) | - | (950) |
| 753 | LOWER YUKON SD | (87,179) | 2.16809% | - | - | - | - | 17,046 | 17,046 | (9,843) | (96) | - | (616) |
| 754 | LOWER KUSKOKWIM SD | (184,023) | 4.57656% | - | - | - | - | 11,587 | 11,587 | (20,778) | (204) | - | (1,300) |
| 755 | KUSPUK SD | (21,575) | 0.53655% | - | - | - | - | 1,114 | 1,114 | (2,436) | (24) | - | (152) |
| 756 | SOUTHWEST REGION SD | (46,327) | 1.15212% | - | - | - | - | 310 | 310 | (5,231) | (51) | - | (327) |
| 757 | LAKE AND PENINSULA BOROUGH SD | (21,687) | 0.53935% | - | - | - | - | 9,845 | 9,845 | (2,449) | (24) | - | (153) |
| 758 | ALEUTIAN REGION SD | (2,437) | 0.06060% | - | - | - | - | 857 | 857 | (275) | (3) | - | (17) |
| 759 | PRIBILOF SD | (3,646) | 0.09068% | - | - | - | - | 1,372 | 1,372 | (412) | (4) | - | (26) |
| 761 | IDITAROD AREA SD | (13,783) | 0.34277% | - | - | - | - | 1,912 | 1,912 | (1,556) | (15) | - | (97) |
| 762 | YUKON / KOYUKUK SD | (40,799) | 1.01464% | - | - | - | - | 1,805 | 1,805 | (4,607) | (45) | - | (288) |
| 763 | YUKON FLATS SD | (16,211) | 0.40316% | - | - | - | - | 2,687 | 2,687 | (1,830) | (18) | - | (114) |
| 764 | DENALI BOROUGH SD | (12,674) | 0.31521% | - | - | - | - | 827 | 827 | (1,431) | (14) | - | (90) |
| 765 | DELTA/GREELY SD | (20,444) | 0.50843% | - | - | - | - | 517 | 517 | (2,308) | (23) | - | (144) |
| 766 | ALASKA GATEWAY SD | (22,566) | 0.56120% | - | - | - | - | - | - | (2,548) | (25) | - | (159) |
| 767 | COPPER RIVER SD | (13,519) | 0.33621% | - | - | - | - | 272 | 272 | (1,526) | (15) | - | (95) |
| 768 | CHATHAM SD | (10,190) | 0.25342% | - | - | - | - | 343 | 343 | (1,151) | (11) | - | (72) |
| 769 | SOUTHEAST ISLAND SD | (12,569) | 0.31258% | - | - | - | - | 1,386 | 1,386 | (1,419) | (14) | - | (89) |
| 770 | ANNETTE ISLAND SD | (21,328) | 0.53042% | - | - | - | - | - | - | (2,408) | (24) | - | (151) |
| 771 | CHUGACH SD | (5,470) | 0.13603% | - | - | - | - | 100 | 100 | (618) | (6) | - | (39) |
| 775 | TANANA SD | (2,724) | 0.06774% | - | - | - | - | 915 | 915 | (308) | (3) | - | (19) |
| 777 | KASHUNAMIUT SD | (15,239) | 0.37899% | - | - | - | - | 2,161 | 2,161 | (1,721) | (17) | - | (108) |
| 778 | YUPIIT SD | (24,068) | 0.59855% | - | - | - | - | 5,810 | 5,810 | (2,718) | (27) | - | (170) |
| 779 | SPECIAL EDUCATION SERVICE AGENCY | (9,304) | 0.23139% | - | - | - | - | - | - | (1,051) | (10) | - | (66) |
| 780 | ALEUTIANS EAST BOROUGH SD | (15,071) | 0.37482% | - | - | - | - | 1,798 | 1,798 | (1,702) | (17) | - | (106) |
| Total | | (4,021,000) | 100.00000% | - | - | - | - | 134,327 | 134,327 | (454,017) | (4,451) | - | (28,400) |

All amounts are determined without rounding. Rounded amounts are displayed.

State of Alaska Teachers' Retirement System DCR - Occupational Death
 Schedule C - Employers' Allocation of OPEB Amounts as of 6/30/2019

| | | ources | OPEB Expense Recognized | | | |
|-----------------|------------------------------------|--|-------------------------|--|--|-----------------|
| Employer Number | Employer Name | Changes in Proportion and Differences Between Employer Contributions | Total Deferred Inflows | Proportionate Share of OPEB Plan Expense | Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions | Total |
| 701 | ANCHORAGE SD | (1,909) | (152,575) | (15,903) | 511 | (15,392) |
| 704 | CORDOVA CITY SD | (1,645) | (2,744) | (116) | (105) | (221) |
| 705 | CRAIG CITY SD | - | (1,209) | (128) | 146 | 19 |
| 706 | FAIRBANKS NORTH STAR BOROUGH SD | (10,633) | (53,565) | (4,531) | (1,346) | (5,878) |
| 707 | HAINES BOROUGH SD | (239) | (1,548) | (138) | 318 | 180 |
| 708 | HOONAH CITY SD | (2,045) | (3,026) | (104) | (260) | (364) |
| 709 | HYDABURG CITY SD | - | (316) | (33) | 222 | 189 |
| 710 | JUNEAU BOROUGH SD | (2,514) | (17,577) | (1,590) | 234 | (1,356) |
| 712 | KAKE CITY SD | (217) | (1,148) | (98) | 32 | (67) |
| 714 | KETCHIKAN GATEWAY BOROUGH SD | (4,034) | (12,487) | (892) | (332) | (1,224) |
| 717 | KLAWOCK CITY SD | (663) | (1,173) | (54) | 51 | (3) |
| 718 | KODIAK ISLAND BOROUGH SD | (4,147) | (15,139) | (1,160) | 932 | (228) |
| 719 | NENANA CITY SD | (1,939) | (3,361) | (150) | (108) | (258) |
| 720 | NOME CITY SD | (1,847) | (5,288) | (363) | 44 | (319) |
| 722 | MATANUSKA-SUSITNA BOROUGH SD | (18,277) | (73,109) | (5,787) | (2,140) | (7,927) |
| 723 | PELICAN CITY SD | (30) | (113) | (9) | (1) | (10) |
| 724 | PETERSBURG CITY SD | (2,747) | (4,290) | (163) | (122) | (285) |
| 727 | SITKA BOROUGH SD | (886) | (6,110) | (551) | (67) | (619) |
| 728 | SKAGWAY CITY SD | (1,578) | (2,365) | (83) | (143) | (226) |
| 729 | UNALASKA CITY SD | (1,985) | (4,036) | (216) | (55) | (272) |
| 730 | VALDEZ CITY SD | (6,520) | (9,035) | (265) | (676) | (942) |
| 731 | WRANGELL PUBLIC SD | (353) | (1,513) | (122) | 44 | (79) |
| 732 | YAKUTAT SD | (1,052) | (1,377) | (34) | (95) | (130) |
| 733 | UNIVERSITY OF ALASKA | (5,708) | (17,710) | (1,267) | (659) | (1,926) |
| 735 | GALENA CITY SD | (2,860) | (6,367) | (370) | (359) | (730) |
| 736 | NORTH SLOPE BOROUGH SD | (8,472) | (24,873) | (1,731) | (670) | (2,401) |
| 737 | STATE OF ALASKA | (2,491) | (4,665) | (229) | (143) | (373) |
| 742 | BRISTOL BAY BOROUGH SD | (1,447) | (2,220) | (82) | (4) | (85) |
| 743 | SOUTHEAST REGIONAL RESOURCE CENTER | (165) | (625) | (49) | 149 | 101 |
| 744 | DILLINGHAM CITY SD | (1,937) | (5,135) | (338) | 167 | (170) |
| 746 | KENAI PENINSULA BOROUGH SD | (1,933) | (33,095) | (3,289) | 442 | (2,847) |
| 748 | SAINT MARY'S SD | (1,596) | (2,487) | (94) | (16) | (110) |
| 751 | NORTHWEST ARCTIC BOROUGH SD | (8,470) | (25,222) | (1,768) | (872) | (2,640) |
| 752 | BERING STRAIT SD | - | (16,291) | (1,719) | 1,349 | (370) |
| 753 | LOWER YUKON SD | - | (10,556) | (1,114) | 2,140 | 1,026 |
| 754 | LOWER KUSKOKWIM SD | (2,560) | (24,842) | (2,352) | 1,085 | (1,267) |
| 755 | KUSPUK SD | (241) | (2,853) | (276) | 105 | (171) |
| 756 | SOUTHWEST REGION SD | (3,069) | (8,678) | (592) | (355) | (947) |
| 757 | LAKE AND PENINSULA BOROUGH SD | (1,315) | (3,941) | (277) | 1,072 | 794 |
| 758 | ALEUTIAN REGION SD | - | (295) | (31) | 107 | 76 |
| 759 | PRIBILOF SD | - | (441) | (47) | 171 | 125 |
| 761 | IDITAROD AREA SD | (3,654) | (5,323) | (176) | (242) | (418) |
| 762 | YUKON / KOYUKUK SD | (5,600) | (10,540) | (521) | (452) | (974) |
| 763 | YUKON FLATS SD | (575) | (2,537) | (207) | 261 | 54 |
| 764 | DENALI BOROUGH SD | (1,332) | (2,867) | (162) | (74) | (236) |
| 765 | DELTA/GREELY SD | (157) | (2,633) | (261) | 49 | (212) |
| 766 | ALASKA GATEWAY SD | (4,870) | (7,602) | (288) | (612) | (900) |
| 767 | COPPER RIVER SD | (2,918) | (4,555) | (173) | (320) | (493) |
| 768 | CHATHAM SD | (1,059) | (2,292) | (130) | (94) | (224) |
| 769 | SOUTHEAST ISLAND SD | - | (1,522) | (161) | 171 | 10 |
| 770 | ANNETTE ISLAND SD | (1,562) | (4,144) | (273) | (199) | (471) |
| 771 | CHUGACH SD | (951) | (1,613) | (70) | (104) | (174) |
| 775 | TANANA SD | (734) | (1,064) | (35) | 31 | (4) |
| 777 | KASHUNAMIUT SD | (990) | (2,836) | (195) | 158 | (37) |
| 778 | YUPIIT SD | - | (2,914) | (308) | 717 | 409 |
| 779 | SPECIAL EDUCATION SERVICE AGENCY | (1,729) | (2,855) | (119) | (213) | (332) |
| 780 | ALEUTIANS EAST BOROUGH SD | (672) | (2,497) | (193) | 131 | (61) |
| Total | | (134,327) | (621,195) | (51,388) | 0 | (51,388) |

All amounts are determined without rounding. Rounded amounts are displayed.

State of Alaska Teachers' Retirement System DCR - Occupational Death & Disability
Schedule D - Employers' Allocation of Recognition of Deferred Outflows/Inflows as of 6/30/2019

| Employer Number | Employer Name | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 | Thereafter |
|-----------------|------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| 701 | ANCHORAGE SD | (24,057) | (24,057) | (14,463) | (13,968) | (16,939) | (53,438) |
| 704 | CORDOVA CITY SD | (285) | (285) | (215) | (211) | (233) | (655) |
| 705 | CRAIG CITY SD | (51) | (51) | 26 | 30 | 6 | 11 |
| 706 | FAIRBANKS NORTH STAR BOROUGH SD | (8,347) | (8,347) | (5,613) | (5,472) | (6,319) | (19,467) |
| 707 | HAINES BOROUGH SD | 105 | 105 | 188 | 193 | 167 | 456 |
| 708 | HOONAH CITY SD | (420) | (420) | (358) | (354) | (374) | (1,101) |
| 709 | HYDABURG CITY SD | 170 | 170 | 191 | 192 | 185 | 477 |
| 710 | JUNEAU BOROUGH SD | (2,222) | (2,222) | (1,263) | (1,214) | (1,511) | (4,845) |
| 712 | KAKE CITY SD | (120) | (120) | (61) | (58) | (76) | (265) |
| 714 | KETCHIKAN GATEWAY BOROUGH SD | (1,710) | (1,710) | (1,172) | (1,144) | (1,311) | (4,206) |
| 717 | KLAWOCK CITY SD | (32) | (32) | 0 | 2 | (8) | 21 |
| 718 | KODIAK ISLAND BOROUGH SD | (860) | (860) | (160) | (124) | (341) | (720) |
| 719 | NENANA CITY SD | (340) | (340) | (249) | (245) | (273) | (789) |
| 720 | NOME CITY SD | (517) | (517) | (298) | (287) | (355) | (1,227) |
| 722 | MATANUSKA-SUSITNA BOROUGH SD | (11,080) | (11,080) | (7,589) | (7,409) | (8,490) | (25,849) |
| 723 | PELICAN CITY SD | (14) | (14) | (9) | (9) | (10) | (31) |
| 724 | PETERSBURG CITY SD | (374) | (374) | (275) | (270) | (301) | (1,032) |
| 727 | SITKA BOROUGH SD | (919) | (919) | (586) | (569) | (672) | (2,067) |
| 728 | SKAGWAY CITY SD | (271) | (271) | (221) | (218) | (234) | (667) |
| 729 | UNALASKA CITY SD | (390) | (390) | (259) | (252) | (293) | (1,031) |
| 730 | VALDEZ CITY SD | (1,086) | (1,086) | (926) | (918) | (967) | (2,800) |
| 731 | WRANGELL PUBLIC SD | (146) | (146) | (72) | (68) | (91) | (256) |
| 732 | YAKUTAT SD | (148) | (148) | (128) | (127) | (133) | (369) |
| 733 | UNIVERSITY OF ALASKA | (2,617) | (2,617) | (1,852) | (1,813) | (2,050) | (6,358) |
| 735 | GALENA CITY SD | (931) | (931) | (708) | (697) | (766) | (2,334) |
| 736 | NORTH SLOPE BOROUGH SD | (3,344) | (3,344) | (2,300) | (2,246) | (2,569) | (8,301) |
| 737 | STATE OF ALASKA | (498) | (498) | (360) | (352) | (395) | (1,327) |
| 742 | BRISTOL BAY BOROUGH SD | (130) | (130) | (81) | (78) | (93) | (379) |
| 743 | SOUTHEAST REGIONAL RESOURCE CENTER | 74 | 74 | 104 | 105 | 96 | 309 |
| 744 | DILLINGHAM CITY SD | (354) | (354) | (150) | (140) | (203) | (861) |
| 746 | KENAI PENINSULA BOROUGH SD | (4,639) | (4,639) | (2,655) | (2,552) | (3,167) | (9,857) |
| 748 | SAINT MARY'S SD | (162) | (162) | (105) | (102) | (120) | (395) |
| 751 | NORTHWEST ARCTIC BOROUGH SD | (3,603) | (3,603) | (2,537) | (2,481) | (2,812) | (8,921) |
| 752 | BERING STRAIT SD | (1,307) | (1,307) | (270) | (216) | (538) | (1,918) |
| 753 | LOWER YUKON SD | 419 | 419 | 1,091 | 1,126 | 918 | 2,517 |
| 754 | LOWER KUSKOKWIM SD | (2,548) | (2,548) | (1,130) | (1,056) | (1,496) | (4,476) |
| 755 | KUSPUK SD | (321) | (321) | (155) | (146) | (198) | (597) |
| 756 | SOUTHWEST REGION SD | (1,270) | (1,270) | (913) | (894) | (1,005) | (3,017) |
| 757 | LAKE AND PENINSULA BOROUGH SD | 643 | 643 | 811 | 819 | 767 | 2,220 |
| 758 | ALEUTIAN REGION SD | 59 | 59 | 78 | 79 | 73 | 215 |
| 759 | PRIBILOF SD | 99 | 99 | 128 | 129 | 120 | 355 |
| 761 | IDITAROD AREA SD | (514) | (514) | (408) | (402) | (435) | (1,139) |
| 762 | YUKON / KOYUKUK SD | (1,258) | (1,258) | (943) | (927) | (1,025) | (3,324) |
| 763 | YUKON FLATS SD | (59) | (59) | 66 | 73 | 34 | 94 |
| 764 | DENALI BOROUGH SD | (324) | (324) | (226) | (221) | (252) | (693) |
| 765 | DELTA/GREELY SD | (355) | (355) | (197) | (189) | (238) | (782) |
| 766 | ALASKA GATEWAY SD | (1,057) | (1,057) | (883) | (874) | (928) | (2,802) |
| 767 | COPPER RIVER SD | (587) | (587) | (483) | (478) | (510) | (1,638) |
| 768 | CHATHAM SD | (295) | (295) | (216) | (212) | (237) | (695) |
| 769 | SOUTHEAST ISLAND SD | (77) | (77) | 20 | 25 | (5) | (21) |
| 770 | ANNETTE ISLAND SD | (620) | (620) | (455) | (447) | (498) | (1,506) |
| 771 | CHUGACH SD | (212) | (212) | (170) | (168) | (181) | (570) |
| 775 | TANANA SD | (23) | (23) | (2) | (1) | (7) | (92) |
| 777 | KASHUNAMIUT SD | (143) | (143) | (26) | (20) | (56) | (287) |
| 778 | YUPIIT SD | 242 | 242 | 427 | 437 | 380 | 1,168 |
| 779 | SPECIAL EDUCATION SERVICE AGENCY | (397) | (397) | (325) | (321) | (344) | (1,071) |
| 780 | ALEUTIANS EAST BOROUGH SD | (166) | (166) | (50) | (44) | (80) | (193) |
| Total | | (79,388) | (79,388) | (48,388) | (46,788) | (56,388) | (176,527) |

State of Alaska Teachers' Retirement System DCR - Occupational Death & Disability
Schedule E - Contribution History

| Employer Number | Employer Name | FY2019 | FY2018 | FY2017 | FY2016 |
|-----------------|------------------------------------|----------------|--------|--------|--------------|
| 701 | ANCHORAGE SD | 96,597 | - | - | - |
| 704 | CORDOVA CITY SD | 705 | - | - | - |
| 705 | CRAIG CITY SD | 775 | - | - | - |
| 706 | FAIRBANKS NORTH STAR BOROUGH SD | 27,525 | - | - | - |
| 707 | HAINES BOROUGH SD | 839 | - | - | - |
| 708 | HOONAH CITY SD | 629 | - | - | - |
| 709 | HYDABURG CITY SD | 203 | - | - | - |
| 710 | JUNEAU BOROUGH SD | 9,657 | - | - | - |
| 712 | KAKE CITY SD | 597 | - | - | - |
| 714 | KETCHIKAN GATEWAY BOROUGH SD | 5,419 | - | - | - |
| 717 | KLAWOCK CITY SD | 327 | - | - | - |
| 718 | KODIAK ISLAND BOROUGH SD | 7,047 | - | - | - |
| 719 | NENANA CITY SD | 912 | - | - | - |
| 720 | NOME CITY SD | 2,206 | - | - | - |
| 722 | MATANUSKA-SUSITNA BOROUGH SD | 35,154 | - | - | - |
| 723 | PELICAN CITY SD | 53 | - | - | - |
| 724 | PETERSBURG CITY SD | 990 | - | - | - |
| 727 | SITKA BOROUGH SD | 3,349 | - | - | - |
| 728 | SKAGWAY CITY SD | 505 | - | - | - |
| 729 | UNALASKA CITY SD | 1,315 | - | - | - |
| 730 | VALDEZ CITY SD | 1,612 | - | - | - |
| 731 | WRANGELL PUBLIC SD | 744 | - | - | - |
| 732 | YAKUTAT SD | 208 | - | - | - |
| 733 | UNIVERSITY OF ALASKA | 7,695 | - | - | - |
| 735 | GALENA CITY SD | 2,249 | - | - | - |
| 736 | NORTH SLOPE BOROUGH SD | 10,516 | - | - | 1,458 |
| 737 | STATE OF ALASKA | 1,394 | - | - | - |
| 742 | BRISTOL BAY BOROUGH SD | 496 | - | - | - |
| 743 | SOUTHEAST REGIONAL RESOURCE CENTER | 295 | - | - | - |
| 744 | DILLINGHAM CITY SD | 2,051 | - | - | - |
| 746 | KENAI PENINSULA BOROUGH SD | 19,979 | - | - | - |
| 748 | SAINT MARY'S SD | 571 | - | - | - |
| 751 | NORTHWEST ARCTIC BOROUGH SD | 10,740 | - | - | - |
| 752 | BERING STRAIT SD | 10,445 | - | - | - |
| 753 | LOWER YUKON SD | 6,768 | - | - | - |
| 754 | LOWER KUSKOKWIM SD | 14,286 | - | - | - |
| 755 | KUSPUK SD | 1,675 | - | - | - |
| 756 | SOUTHWEST REGION SD | 3,596 | - | - | - |
| 757 | LAKE AND PENINSULA BOROUGH SD | 1,684 | - | - | - |
| 758 | ALEUTIAN REGION SD | 189 | - | - | - |
| 759 | PRIBILOF SD | 283 | - | - | - |
| 761 | IDITAROD AREA SD | 1,070 | - | - | - |
| 762 | YUKON / KOYUKUK SD | 3,167 | - | - | - |
| 763 | YUKON FLATS SD | 1,258 | - | - | - |
| 764 | DENALI BOROUGH SD | 984 | - | - | - |
| 765 | DELTA/GREELY SD | 1,587 | - | - | - |
| 766 | ALASKA GATEWAY SD | 1,752 | - | - | - |
| 767 | COPPER RIVER SD | 1,049 | - | - | - |
| 768 | CHATHAM SD | 791 | - | - | - |
| 769 | SOUTHEAST ISLAND SD | 976 | - | - | - |
| 770 | ANNETTE ISLAND SD | 1,656 | - | - | - |
| 771 | CHUGACH SD | 425 | - | - | - |
| 775 | TANANA SD | 211 | - | - | (5) |
| 777 | KASHUNAMIUT SD | 1,183 | - | - | - |
| 778 | YUPIIT SD | 1,868 | - | - | - |
| 779 | SPECIAL EDUCATION SERVICE AGENCY | 722 | - | - | - |
| 780 | ALEUTIANS EAST BOROUGH SD | 1,170 | - | - | - |
| Total | | 312,145 | - | - | 1,453 |

State of Alaska Teachers' Retirement System DCR - Occupational Death & Disability
Schedule E - Contribution History - Historical

| | | FY2015 | FY2014 | FY2013 | FY2012 | FY2011 | FY2010 |
|-------|--------------------------|--------|--------|--------|--------|---------|---------|
| Total | Total Plan Contributions | - | - | - | - | 474,000 | 442,000 |