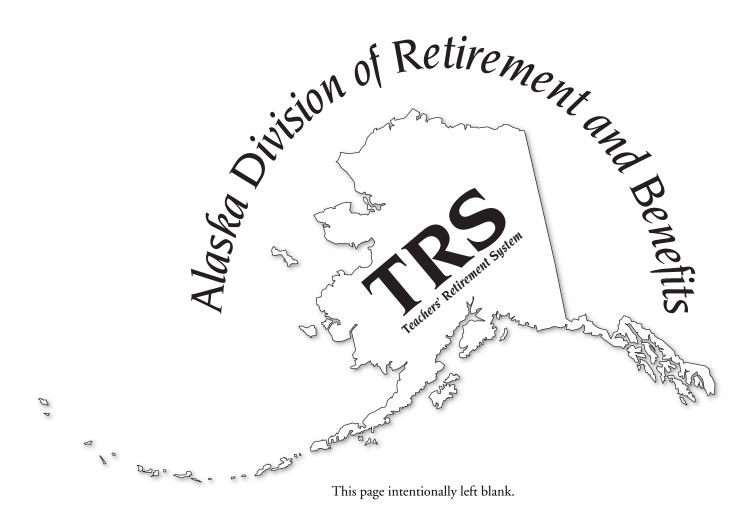


ACTUARIAL SECTION



buckconsultants

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October 4, 2011

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

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

Actuarial Certification

The annual actuarial valuation required for the State of Alaska Teachers' Retirement System has been prepared as of June 30, 2010 by Buck Consultants. The purposes of the report include:

- (1) a presentation of the valuation results of the System as of June 30, 2010;
- (2) a review of experience under the System for the year ended June 30, 2010;
- (3) a determination of the appropriate total contribution rate to be paid by all employers in the System including additional State contributions pursuant to SB 125, which will be applied for the fiscal year ending June 30, 2013; and
- (4) the provision of reporting and disclosure information for financial statements, governmental agencies, and other interested parties.

The following schedules that we have prepared are included in this report:

- (1) Summary of actuarial assumptions and methods
- (2) Schedule of active member valuation data
- (3) Schedule of benefit recipients added to and removed from rolls
- (4) Solvency test
- (5) Analysis of financial experience
- (6) Schedule of Funding Progress, Schedule of Employer Contributions and trend data schedules

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The Alaska Retirement Management Board, The Department of Revenue and The Department of Administration October 4, 2011 Page 2

In preparing this valuation, we have employed generally accepted actuarial methods and assumptions, in conjunction with employee data provided to us by the Division of Retirement and Benefits and financial information provided in the financial statements audited by KPMG LLP, to determine a sound value for the System liability. The employee data has not been audited, but it has been reviewed and found to be consistent, both internally and with prior years' data. The actuarial assumptions are based on the results of an experience study presented to The Alaska Retirement Management Board (Board) in September 2010 and adopted by the Board in December 2010. Actuarial methods, medical cost trend, and assumed blended medical premiums were also reviewed during the experience study.

The total contribution requirements are determined as a percentage of payroll, and reflect the cost of benefits accruing in FY11 and a fixed 25-year amortization as a level percentage of payroll of the initial unfunded accrued liability and subsequent assumption changes and gains/losses. The payroll used to determine the contribution rates is the total payroll of all active members in the System, including those hired after July 1, 2006 who are in the Defined Contribution Retirement (DCR) Plan. The amortization period is set by the Board. Contribution levels are recommended by the Actuary and adopted by the Board each year. The ratio of valuation assets to liabilities decreased from 57.0% to 53.6% during the year. This report provides an analysis of the factors that led to the decrease. This report also provides a history of the funding ratio of the System.

A summary of the actuarial assumptions and methods is presented in this report. The assumptions, when applied in combination, fairly represent past and anticipated future experience of the System.

The funding objective of the plan, as adopted by the ARM Board, is to set a contribution rate that will pay the normal cost and amortize the initial unfunded actuarial accrued liability and each subsequent annual change in the unfunded actuarial accrued liability over a closed 25-year period as a level percentage of payroll. The funding objective for the plan, as adopted by the ARM Board is currently being met.

Future contribution requirements may differ from those determined in the valuation because of:

- (1) differences between actual experience and anticipated experience based on the assumptions;
- (2) changes in actuarial assumptions or methods;
- (3) changes in statutory provisions; or
- (4) differences between the contribution rates determined by the valuation and those adopted by the Board.



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The Alaska Retirement Management Board, The Department of Revenue and The Department of Administration October 4, 2011 Page 3

The undersigned are members of the American Academy of Actuaries and the Society of Actuaries, are fully qualified to provide actuarial services to the State of Alaska, and are available to answer questions regarding this report.

We believe that the assumptions and methods used for funding purposes and for the disclosures presented in this report satisfy the parameter requirements set forth in the Government Accounting Standards Board (GASB) Statement Nos. 25 and 43.

We believe that this report conforms with the requirements of the Alaska statutes, and where applicable, other federal and accounting laws, regulations and rules, as well as generally accepted actuarial principles and practices.

Sincerely,

David H. Slishinsky, ASA, EA, MAAA

David H. Alskinsky

Principal, Consulting Actuary

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 her qualification to render opinions in such matters, in accordance with the qualification standards of the American Academy of Actuaries.

Melissa Bissett, FSA, MAAA

Melisse a Bissett

Senior Consultant, Health & Productivity



The demographic and economic assumptions used in the June 30, 2010 valuation are described below. Unless noted otherwise, these assumptions were adopted by the Board in December 2010. These assumptions were the result of an experience study performed as of June 30, 2009. The funding method used in this valuation was adopted by the Board in October 2006. The asset smoothing method used to determine valuation assets was changed effective June 30, 2002.

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 - Entry Age Actuarial Cost

Liabilities and contributions shown in the report are computed using the Entry Age Actuarial Cost method of funding. Any funding surpluses or unfunded accrued liability is amortized over 25 years as a level percent of pay amount. Payroll is assumed to increase by the payroll growth assumption per year for this purpose. State statutes allow the contribution rate to be determined on payroll for all members, defined benefit and defined contribution member payroll combined. However, for GASB disclosure requirements, the net amortization period will not exceed 30 years and the level dollar amortization method is used since the defined benefit plan membership was closed effective July 1, 2006.

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 for pension benefits (constant dollar amount for healthcare benefits) 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.

Changes in Methods from the Prior Valuation

There were no changes in methods from the prior valuation, except for any described in the healthcare sections below.

B. Valuation of Assets

Effective June 30, 2002, the asset valuation method recognizes 20% of the difference between actual and expected investment return in each of the current and preceding four years. This method was phased in over the next 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. Valuation assets are constrained to a range of 80% to 120% of the market value of assets.

C. Valuation of Medical Benefits

This section outlines the detailed methodology used to develop the initial per capita claims cost rates for the State of Alaska Teachers' Retirement System postemployment healthcare plan. Note that methodology reflects the results of our annual experience rate update for the period July 1, 2010 to June 30, 2011.

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 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.

We analyzed WFIS and Premera management level reporting for fiscal 2007 through fiscal 2010, as well as WFIS and Premera claim level data for the same period and derived recommended base claims cost rates as described in the following steps:

- 1. Based on analysis described in our Experience Study, dental, vision and audio claims (DVA) are excluded from data analyzed for this valuation.
- 2. Available management level reporting does not show claims or enrollment separately for Medicare and non-Medicare plan participants, but does include overall statistics as to the percentage of claims and enrollment attributable to both groups. Claim level reporting was used to augment cost data by Medicare status.
- 3. 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 these "no-Part A" individuals, the State is the primary payer for hospital bills and other Part A services. Thus, claims costs are higher for the no-Part A group. To date, claim experience is not available separately for participants with both Medicare Parts A and B and those with Part B only. Therefore, higher no-Part A claims are spread across the entire retired population and have been applied to future claims of current active employees projected to retire in the future. 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 and will be lower. The smaller the no-Part A population, the more accrued liabilities will decrease.



Based on census data received from WFIS, 0.6% of the current retiree population was identified as having coverage only under Medicare Part B. For future retirees, we assume their Part A eligible status based on a combination of date of hire, date of birth, tier, etc.

All claims cost rates developed from management level reporting have been compared to similar rates developed from claim level data.

- 4. The steps above result in separate paid claims cost rates for medical and prescription benefits for non-Medicare, Medicare Part B only and Medicare Part A&B members for the past four fiscal years. Medical claims cost rates reflect differing average ages and levels of Medicare coordination for each group. Prescription claims cost rates reflect differing average ages. We converted paid claim data to incurred cost rates projected from each historical data period to the valuation year using a weighted average of national and Alaska-specific trend factors and developed weighted average incurred claims cost rates. The assumed lag between medical claim incurred and paid dates is approximately 2.4 months for medical claims and 0.15 months for prescription claims.
- 5. 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 of the following provisions; however, none of the impacts have been included in the valuation results.
 - Because the State plan is retiree-only, and was in effect at the time the legislation was enacted, not all provisions are required. 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.
 - The Plan will be subject to the high cost plan excise tax (Cadillac tax). Based upon guidance available at
 the time of disclosures, Buck estimated the year in which the tax would potentially affect Alaska to be
 2047, and with a minimal impact. Buck determined the impact to be immaterial based on a blend of
 pre-Medicare and Medicare retirees.

We have not identified any other specific provisions of healthcare reform that would be expected to have a significant impact on the measured obligation. As additional guidance on the legislation is issued, we will continue to monitor any potential impacts.

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June 30, 2010 Valuation - FY 2011 Claims Cost Rates

		Medical	
	Pre-Medicare	Medicare A&B	Medicare B Only
Fiscal 2007 Paid Claims	\$129,762,975	\$22,677,328	\$3,524,812
Membership	33,446	20,315	1,069
Paid Claims Cost Rate	\$3,880	\$1,116	\$3,297
Trend to FY2011	1.512	1.512	1.512
FY 2011 Paid Cost Rate	\$5,866	\$1,688	\$4,984
Paid to Incurred Factor**	1.022	1.022	1.022
FY2011 Incurred Cost Rate	\$5,995	\$1,725	\$5,094
Fiscal 2008 Paid Claims	\$169,598,064	\$28,657,490	\$6,079,463
Membership	33,630	21,434	893
Paid Claims Cost Rate	\$5,043	\$1,337	\$6,807
Trend to FY2011	1.358	1.358	1.358
FY 2011 Paid Cost Rate	\$6,847	\$1,815	\$9,243
Paid to Incurred Factor**	1.022	1.022	1.022
FY 2011 Incurred Cost Rate	\$6,998	\$1,855	\$9,446
Fiscal 2009 Paid Claims	\$185,275,626	\$39,286,392	\$3,949,927
Membership	32,943	24,624	539
Paid Claims Cost Rate	\$5,624	\$1,595	\$7,327
Trend to FY2011	1.221	1.221	1.221
FY 2011 Paid Cost Rate	\$6,866	\$1,948	\$8,944
Paid to Incurred Factor**	1.022	1.022	1.022
FY 2011 Incurred Cost Rate	\$7,017	\$1,991	\$9,141
Fiscal 2010 Paid Claims	\$199,739,865	\$51,373,725	\$1,215,832
Membership	32,026	27,915	156
Paid Claims Cost Rate	\$6,237	\$1,840	\$7,794
Trend to FY2011	1.130	1.130	1.130
FY 2011 Paid Cost Rate	\$7,050	\$2,080	\$8,810
Paid to Incurred Factor**	1.022	1.022	1.022
FY 2011 Incurred Cost Rate	\$7,205	\$2,126	\$9,003
Weighted Average 7/1/2010 – 6/30/201			
At average age	\$6,967	\$1,978	\$8,756
At age 65*	\$8,606	\$1,563	\$6,654

^{*} Methodology prior to 2006 did not include separate Part B only analysis; applicable rates above are determined so that the composite Medicare rate equates to separate A&B and B only rates based on the 3.5% of Medicare membership assumed to lack Part A.

^{**} As data specific to Medicare and Pre-Medicare retirees is provided, lag factors specific to Medicare status will be reflected.

June 30, 2010 Valuation – FY 2011 Claims Cost Rates (cont.)

Prescription Drugs Medicare B Medicare A&B **Pre-Medicare** Only **Total** Fiscal 2007 Paid Claims \$46,176,199 \$2,391,089 \$246,881,041 \$42,348,638 Membership 54,830 33,446 20,315 1,069 Paid Claims Cost Rate \$1,381 \$2,085 \$2,236 \$4,503 Trend to FY2011 1.467 1.467 1.467 FY 2011 Paid Cost Rate \$2,026 \$3,059 \$3,282 \$6,734 Paid to Incurred Factor** 1.001 1.001 1.001 FY 2011 Incurred Cost Rate \$2,028 \$3,062 3,285 \$6,830 Fiscal 2008 Paid Claims \$53,506,123 \$2,346,512 \$312,717,425 \$52,529,773 Membership 33,630 21,434 893 55,957 Paid Claims Cost Rate \$1,591 \$2,451 \$2,627 \$5,589 Trend to FY2011 1.316 1.316 1.316 FY 2011 Paid Cost Rate \$2,094 \$3,226 \$3,459 \$7,508 Paid to Incurred Factor** 1.001 1.001 1.001 FY 2011 Incurred Cost Rate \$2,096 \$3,229 \$3,462 \$7,618 Fiscal 2009 Paid Claims \$61,062,842 \$60,195,838 \$1,412,907 \$351,183,532 Membership 24,624 32,943 539 58,106 Paid Claims Cost Rate \$6,044 \$1,854 \$2,445 \$2,621 Trend to FY2011 1.184 1.184 1.184 FY 2011 Paid Cost Rate \$2,194 \$2,893 \$3,102 \$7,300 Paid to Incurred Factor** 1.001 1.001 1.001 FY 2011 Incurred Cost Rate \$2,196 \$2,896 \$3,105 \$7,407 Fiscal 2010 Paid Claims \$62,310,224 \$73,005,066 \$414,101 \$388,058,813 Membership 32,026 27,915 60,097 156 Paid Claims Cost Rate \$1,946 \$2,615 \$2,654 \$6,457 Trend to FY2011 1.096 1.096 1.096

\$2,866

1.001

\$2,869

\$2,971

\$2,600

\$2,909

1.001

\$2,912

\$3,136

\$2,600

\$7,221

\$7,327

\$7,427

\$7,924

\$2,132

1.001

\$2,134

\$2,141

\$2,600

FY 2011 Paid Cost Rate

Paid to Incurred Factor**

At average age At age 65*

FY 2011 Incurred Cost Rate

Weighted Average 7/1/2010 - 6/30/2011 Incurred Claims Cost Rates:

^{*} Methodology prior to 2006 did not include separate Part B only analysis; applicable rates above are determined so that the composite Medicare rate equates to separate A & B and B only rates based on the 3.5% of Medicare membership assumed to lack Part A.

^{**} As data specific to Medicare and Pre-Medicare retirees is provided, lag factors specific to Medicare status will be reflected.

Following the development of total projected costs, a distribution of per capita claims cost was developed. This was accomplished by allocating total projected costs to the population census used in the valuation. The allocation was done separately for each of prescription drugs 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.

Below are the results of this analysis:

Distribution of Per Capita Claims Cost by Age for the Period July 1, 2010 through June 30, 2011

<u>Age</u>	Medical and Medicare <u>Parts A & B</u>	Medical and Medicare <u>Part B Only</u>	Prescription <u>Drug</u>	Medicare Retiree Drug Subsidy
45	\$ 4,766	\$ 4,766	\$ 1,372	\$ -
50	5,392	5,392	1,629	-
55	6,101	6,101	1,935	-
60	7,246	7,246	2,243	-
65	1,563	6,654	2,600	515
70	1,902	8,096	2,801	555
75	2,258	9,613	2,988	592
80	2,433	10,356	3,063	607

D. Actuarial Assumptions

1.	Investment Return/ Discount Rate	8.00% per year (geometric), compounded annually, net of expenses.
2.	Salary Scale	Inflation - 3.12% per year Productivity - 0.5% per year See Table 1 for salary scale rates
3.	Payroll Growth	3.62% per year. (Inflation + Productivity).
4.	Total Inflation	Total inflation as measured by the Consumer Price Index for urban and clerical workers for Anchorage is assumed to increase 3.12% annually.
5.	Mortality (Pre-termination)	Based upon the 2005-2009 actual experience. (See Table 2). 1994 Group Annuity Mortality (GAM) Sex-distinct Table 1994 Base Year without margin projected to 2013 using Projection Scale AA, adjusted 55% for females and 45% for males. Deaths are assumed to result from non-occupational causes 85% of the time.

STATE OF ALASKA TEACHERS' RETIREMENT SYSTEM Summary of Actuarial Assumptions, Methods and Procedures

6.	Mortality (Post-termination)	Based upon the 2005-2009 actual experience. (See Table 3). The 1994 GAM Sex-distinct Table 1994 Base Year without margin projected to 2013 using Projection Scale AA, with a 3-year setback for females and 4-year setback for males.
7.	Turnover	Select and ultimate rates based upon the 2005-2009 actual with drawal experience. (See Table 4 .)
8.	Disability	Incidence rates based upon the 2005-2009 actual experience, in accordance with Table 5. Post-disability mortality in accordance with the RP-2000 Disabled Retiree Mortality Table.
9.	Retirement	Retirement rates based upon the 2005-2009 actual experience in accordance with Table 6. Deferred vested members are assumed to retire at their earliest unreduced retirement date.
10.	Marriage and Age Difference	Wives are assumed to be three years younger than husbands. 85% of male members and 75% of female members are assumed to be married.
11.	Dependent Children	Benefits to dependent children have been valued assuming members who are married and between the ages of 25 and 45 have two dependent children.
12.	Contribution Refunds	10% 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.
13.	COLA	Of those benefit recipients who are eligible for the COLA, 60% are assumed to remain in Alaska and receive the COLA.
14.	Sick Leave	4.7 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.
15.	Post Retirement Pension Adjustment	50% and 75% of assumed inflation, or 1.56% and 2.34% respectively, is valued for the annual automatic Postretirement Pension Adjustment (PRPA) as specified in the statute.
16.	Expenses	All expenses are net of the investment return assumption.
17.	Part-Time Status	Part-time employees are assumed to earn 0.60 years of credited service per year.
18.	Re-employment Option	We assume all re-employed retirees return to work under the Standard Option.
19.	Service	Total credited service is provided by the State. We assume that this service is 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.
20.	Final Average Earnings	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.

21. Per Capita Claims Cost

Sample claims cost rates adjusted to age 65 for FY11 medical benefits are shown below:

	<u>Medical</u>	Prescription <u>Drugs</u>
Pre-Medicare	\$8,606	\$2,600
Medicare Parts A & B	1,563	2,600
Medicare Part B Only	6,654	2,600
Medicare Part D	N/A	515

22. Third Party
Administrator Fees

\$153.33 per person per year; assumed trend rate of 5% per year.

23. 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, 6.9% is applied to the FY11 rate claims costs to get the FY12 claims costs.

	<u>Medical</u>	Prescription <u>Drugs</u>
FY11	6.9%	8.3%
FY12	6.4	7.1
FY13	5.9	5.9
FY14	5.9	5.9
FY15	5.9	5.9
FY16	5.9	5.9
FY17	5.9	5.9
FY25	5.8	5.8
FY50	5.7	5.7
FY100	5.1	5.1

For the June 30, 2009 valuations and later, the Society of Actuaries' Healthcare Cost Trend Model is used to project medical and prescription drug costs. This model effectively begins estimating trend amounts beginning in 2012 and projects out to 2100. The model has been populated with assumptions that are specific to the State of Alaska.

24. Aging Factors

<u>Age</u>	Medical	Prescription Drugs
0-44	2.0%	4.5%
45-54	2.5	3.5
55-64	3.5	3.0
65-74	4.0	1.5
75-84	1.5	0.5
85-94	0.5	0.0
95+	0.0	0.0

25. 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 FY11 contributions based on monthly rates shown below for calendar 2010 and 2011 are assumed based on the coverage category for current retirees. The composite rate shown is used for current active and inactive members in Tier 2 who are assumed to retire prior to age 60 with less than 25 years of service and who are not disabled:

	Calendar 2011 Annual	Calendar 2011 Monthly	Calendar 2010 Monthly
Coverage Category	Contribution	Contribution	Contribution
Retiree Only	\$ 9,492	\$ 791	\$ 719
Retiree and Spouse	18,996	1,583	1,439
Retiree and Child(ren)	13,416	1,118	1,016
Retiree and Family	22,920	1,910	1,736
Composite	14,112	1,176	1,068

26. Trend Rate for Retired Member Medical Contribution

The table below shows the rate used to project the retired member medical contributions from the shown fiscal year to the next fiscal year. For example, 6.7% is applied to the FY11 retired member medical contributions to get the FY12 retired member medical contributions.

FY11	6.7%
FY12	6.3
FY13	6.0
FY14	5.7
FY15	5.3
FY16	5.0
FY17	5.0
FY18	5.0
FY 19 and later	5.0

Graded trend rates for retired member medical contributions were reinitialized for the June 30, 2005 valuation. Note that actual FY10 retired member medical contributions are reflected in the valuation so trend on such contribution during FY10 is not applicable.

27. Healthcare Participation

100% of system paid members and their spouses are assumed to elect healthcare benefits as soon as they are eligible. 10% of non-system paid members and their spouses are assumed to elect healthcare benefits as soon as they are eligible.

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Table 1 Alaska TRS **Salary Scale**

Years of Employment	Unisex Rates
1-6	6.11%
7	5.94
8	5.78
9	5.61
10	5.44
11	5.28
12	5.11
13	4.94
14	4.78
15	4.61
16	4.45
17	4.28
18	4.11
19	3.95
20	3.78
21+	3.62

Table 2 Alaska TRS Mortality Table (Pre-termination)

Age	<u>Male</u>	<u>Female</u>
20	.017%	.012%
21	.018	.012
22	.019	.012
23	.021	.013
24	.024	.013
25	.026	.013
26	.030	.014
27	.032	.014
28	.033	.015
29	.034	.016
30	.035	.017
31	.036	.019
32	.037	.020
33	.037	.021
34	.037	.022
35	.037	.023
36	.038	.024
37	.039	.024
38	.041	.027
39	.042	.027
40	.042	.029
40	.047	.034
42	.050	
42		.037
43	.053	.039
45	.056	.041
	.060	.042
46	.064	.044
47	.069	.047
48	.075	.051
49	.081	.055
50	.088	.061
51	.097	.068
52	.106	.078
53	.118	.090
54	.131	.102
55	.149	.116
56	.170	.135
57	.195	.157
58	.224	.181
59	.253	.208
60	.284	.239
61	.326	.274
62	.368	.314
63	.425	.359
64	.479	.410

Table 3
Alaska TRS
Mortality Table (Post-termination)

Age	<u>Male</u>	<u>Female</u>
50	.142%	.085%
51	.153	.092
52	.166	.100
53	.181	.111
54	.196	.124
55	.215	.143
56	.235	.163
57	.263	.185
58	.291	.212
59	.331	.246
60	.377	.285
61	.433	.328
62	.499	.378
63	.561	.434
64	.631	.498
65	.725	.570
66	.819	.653
67	.944	.745
68	1.064	.844
69	1.196	.948
70	1.362	1.052
71	1.512	1.150
72	1.634	1.242
73	1.787	1.342
74	1.915	1.434
75	2.094	1.583
76	2.298	1.726
77	2.518	1.918
78	2.748	2.094
79	3.061	2.338
80	3.361	2.669
81	3.788	2.985
82	4.292	3.327
83	4.868	3.707
84	5.510	4.136
85	6.214	4.625

Table 4 Alaska TRS Turnover Assumptions

Select Rates of Turnover During the First 8 Years of Employment:

Year of Employment	Unisex Rate
1	17.00%
2	17.00
3	14.00
4	12.00
5	10.00
6	9.00
7	7.50
8	6.00

Ultimate Rates of Turnover After the First 8 Years of Employment

Age	Male	Female	Age	Male	Female
15	4.4584%	4.3747%	40	4.3189%	4.2658%
16	4.4528	4.3714	41	4.3065	4.2559
17	4.4483	4.3692	42	4.2908	4.2460
18	4.4438	4.3681	43	4.2762	4.2372
19	4.4415	4.3670	44	4.2570	4.2262
20	4.4067	4.3351	45	4.2357	4.2130
21	4.4044	4.3351	46	4.2132	4.2009
22	4.3999	4.3340	47	4.1850	4.1844
23	4.3965	4.3340	48	4.1524	4.1657
24	4.3909	4.3329	49	4.1187	4.1470
25	4.3864	4.3329	50	4.0804	4.1250
26	4.3819	4.3318	51	4.0354	4.0997
27	4.3774	4.3307	52	3.9825	4.0700
28	4.3729	4.3274	53	3.9240	4.0348
29	4.3684	4.3241	54	3.8588	3.9974
30	4.3650	4.3208	55	3.7845	3.9523
31	4.3628	4.3186	56	3.6945	3.8940
32	4.3594	4.3142	57	3.5843	3.8192
33	4.3572	4.3109	58	3.4639	3.7345
34	4.3560	4.3065	59	3.3188	3.6267
35	4.3538	4.3021	60	3.1557	3.5046
36	4.3504	4.2955	61	2.9745	3.3682
37	4.3459	4.2900	62	2.7642	3.2131
38	4.3380	4.2823	63	2.5245	3.0360
39	4.3290	4.2746	64	2.2647	2.8435
			65+	4.5000	4.4000

Table 5 Alaska TRS Disability Table

Age	Male	<u>Female</u>
20	.0224%	.0202%
21	.0224	.0202
22	.0232	.0209
23	.0232	.0209
24	.0240	.0216
25	.0240	.0216
26	.0240	.0216
27	.0248	.0223
28	.0256	.0230
29	.0264	.0238
30	.0272	.0245
31	.0272	.0245
32	.0280	.0252
33	.0288	.0259
34	.0296	.0266
35	.0304	.0274
36	.0320	.0288
37	.0328	.0295
38	.0344	.0310
39	.0352	.0317
40	.0368	.0331
41	.0384	.0346
42	.0408	.0367
43	.0432	.0389
44	.0472	.0425
45	.0520	.0468
46	.0560	.0504
47	.0608	.0547
48	.0664	.0598
49	.0712	.0641
50	.0768	.0691
51	.0832	.0749
52	.0912	.0821
53	.1016	.0914
54	.1136	.1022
55	.1280	.1152
56	.1472	.1325
57	.1712	.1541
58	.1952	.1757
59	.2304	.2074
60	.2696	.2426
61	.3120	.2808
62	.3616	.3254
63	.4176	.3758
64	.4768	.4291

Table 6 Alaska TRS Retirement Table

Age at	Retirement Rate				
Retirement	Reduced	Unreduced		duced Unreduced	duced
	Unisex Rates	<u>Male</u>	Female		
<50	N/A	10.00%	10.00%		
50	8.00%	13.00	13.00		
51	8.00	12.00	12.00		
52	8.00	12.00	12.00		
53	6.00	13.00	13.00		
54	12.00	16.00	16.00		
55	8.00	18.00	20.00		
56	8.00	17.00	15.00		
57	8.00	13.00	17.50		
58	8.00	17.50	18.00		
59	12.00	15.00	17.50		
60	N/A	17.50	20.00		
61	N/A	17.50	20.00		
62	N/A	11.00	25.00		
63	N/A	20.00	25.00		
64	N/A	25.00	20.00		
65	N/A	30.00	20.00		
66	N/A	25.00	20.00		
67	N/A	25.00	20.00		
68	N/A	25.00	20.00		
69	N/A	25.00	20.00		
70-84	N/A	50.00	50.00		
85		100.00	100.00		

Changes in Actuarial Assumptions Since the Prior Valuation

-	-	
	June 30, 2009	June 30, 2010
Salary Scale	Based on actual experience from 2001 to 2005.	Rates adjusted on actual experience 2005 to 2009.
Payroll Growth	4.00% per year	3.62% per year
Total Inflation	3.50%	3.12%
Investment Return/ Discount Rate	8.25% per year (geometric), compounded annually, net of expenses	8.00% per year (geometric), compounded annually, net of expenses
Pre-termination Mortality	The 1994 GAM Sex-distinct Table, 1994 Base Year adjusted 55% for males, and 60% for females.	The 1994 GAM Sex-distinct Table, 1994 Base Year projected to 2013 using Projection Scale AA, adjusted 45% for males, and 55% for females.
Post-termination Mortality	The 1994 GAM Sex-distinct Table, 1994 Base Year, setback 1 year for females and 3-year setback for males.	The 1994 GAM Sex-distinct Table, 1994 Base Year projected to 2013 using Projection Scale AA, setback 3 years for females and 4-year setback for males.
Disability Mortality	1979 PBGC Disability Mortality Table for those receiving Social Security disability benefits.	RP-2000 Disabled Retiree Mortality Table.
Turnover	Based on actual experience from 2001 to 2005.	Rates adjusted based on actual experience from 2005 to 2009.
Disability	Based on actual experience from 2001 to 2005.	Male/female rates decreased based on actual experience from 2005 to 2009 and stop rates at earliest retirement age.
Retirement	Based on actual experience from 2001 to 2005.	Rates adjusted based on actual experience from 2005 to 2009.
Part-time Service	.55 years of credited service per year.	.60 years of credited service per year.
Occupational Assumption	0% of deaths are assumed to be from occupational causes.	15% of deaths are assumed to be from occupational causes.
Deferred Vested Commencement Age	Earliest reduced age.	Earliest unreduced age.



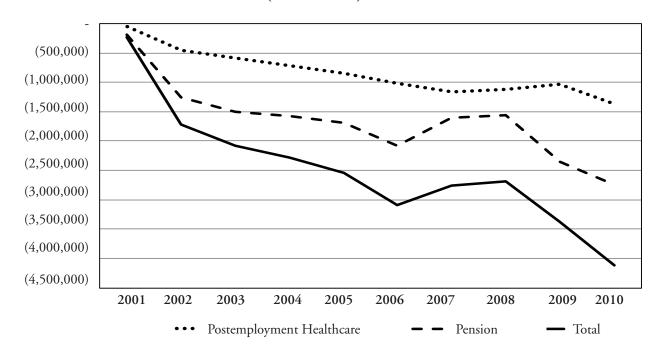
Changes in Actuarial Assumptions Since the Prior Valuation (cont.)

	June 30, 2009	June 30, 2010
Healthcare Participation	100% of members and their spouses are assumed to elect healthcare benefits as soon as they are eligible.	100% of system paid members and their spouses are assumed to elect healthcare benefits as soon as they are eligible.
		10% of non-system paid members and their spouses are assumed to elect healthcare benefits as soon as they are eligible.

Teachers' Retirement System
Funding Excess/(Unfunded Liability)
(In thousands)

Actuarial Valuation Year Ended June 30	Postemployment Healthcare	Pension	Total Funding Excess/ (Unfunded Liability)	Funded Ratio
2001	(47,740)	(183,178)	(230,918)	95.0
2002	(462,093)	(1,260,513)	(1,722,606)	68.2
2003	(587,139)	(1,496,185)	(2,083,324)	64.3
2004	(709,527)	(1,568,703)	(2,278,230)	62.8
2005	(845,674)	(1,693,934)	(2,539,608)	60.9
2006	(1,012,540)	(2,075,617)	(3,088,157)	57.3
2007	(1,163,423)	(1,601,581)	(2,765,004)	61.5
2008	(1,120,634)	(1,561,568)	(2,682,202)	64.8
2009	(1,026,288)	(2,348,268)	(3,374,556)	57.0
2010	(1,361,547)	(2,747,113)	(4,108,660)	53.6

10-YEAR TREND OF UNFUNDED LIABILITY (In thousands)

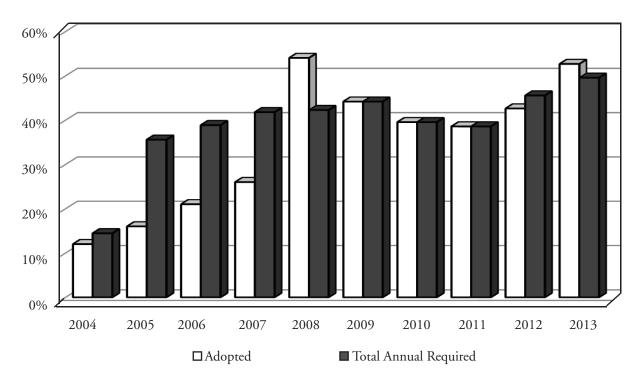


			irement System tribution Rates		
		Actuarially Determined			
Year Ended June 30	Actuarial Valuation Year Ended June 30	Normal Cost ¹	Past Service	Total Annual Required	Adopted
2004	2001	10.33	4.11	14.44	12.00
2005	2002	14.76	20.81	35.57	16.00
2006	2003	14.28	24.57	38.85	21.00
2007	2004	13.76	28.02	41.78	26.00
2008	2005	12.56	29.70	42.26	54.03^{2}
2009	2006	9.37	34.80	44.17	44.17
2010	2007	7.59	31.94	39.53	39.53
2011	2008	7.56	31.00	38.56	38.56
2012	2009	6.57	36.04	42.61	45.55
2013	2010	7.47	42.09	49.56	52.67

¹ Also referred to as the consolidated rate.

Valuations are used to set contribution rates in future years.

10-YEAR COMPARISON OF EMPLOYER CONTRIBUTION RATES



² The ARMB recognized the fact that the Plan becomes a closed Plan on July 1, 2006, and set a rate reflecting no payroll growth.

Teachers'	Retirement System
Schedule of Active	Member Valuation Data

Valuation Date	Number	Annual Earnings (In thousands)	Annual Average Earnings	Percent Increase/ (Decrease) In Average Earnings	Number of Participating Employers
June 30, 2010	7,832	\$564,887	\$72,125	6.5%	58
June 30, 2009	8,226	557,026	67,715	5.2	58
June 30, 2008	8,531	549,148	64,371	5.8	58
June 30, 2007	9,107	554,245	60,859	2.9	58
June 30, 2006	9,710	574,409	59,156	6.6	58
June 30, 2005	9,656	535,837	55,493	2.9	58
June 30, 2004	9,688	522,421	53,925	0.0	58
June 30, 2003	9,873	532,630	53,948	2.7	57
June 30, 2002	9,690	509,437	52,535	3.9	57
June 30, 2001	9,815	496,188	50,544	1.8	60

Teachers' Retirement System
Schedule of Pension Benefit Recipients Added to and Removed from Rolls

	Added to Rolls		Removed from Rolls		Rolls - End of Year		Percent Increase in	Average
Year Ended	No.*	Annual Pension Benefits*	No.*	Annual Pension Benefits*	No.	Annual Pension Benefits	Annual Pension Benefits	Annual Pension Benefits
June 30, 2010	533	\$16,980,817	190	\$ 5,495,399	10,598	\$342,621,008	3.47%	\$32,329
June 30, 2009	368	9,788,639	139	(2,857,118)	10,255	331,135,590	3.97	32,290
June 30, 2008	481	14,265,236	133	806,945	10,026	318,489,833	4.41	31,766
June 30, 2007	432	12,388,703	140	(14,114,559)	9,678	305,031,542	9.52	31,518
June 30, 2006	487	12,731,292	121	(50,838)	9,386	278,528,280	4.81	29,675
June 30, 2005	446	11,243,448	121	13,053,612	9,020	265,746,150	(0.68)	29,462
June 30, 2004	491	17,867,366	96	5,503,666	8,707	267,556,314	4.84	30,729
June 30, 2003	599	21,475,421	91	3,377,352	8,312	255,192,614	7.63	30,702
June 30, 2002	589	24,789,896	118	4,966,397	7,804	237,094,545	9.12	30,381
June 30, 2001	1,057	39,213,327	210	7,790,727	7,333	217,271,046	16.91	29,629

^{*} Numbers are estimated, and include other internal transfers.

Teachers' Retirement System Solvency Test										
	Aggre		Portion of Accrued Liabilities Covered by Assets							
Valuation Date	(1) Active Member Contributions (In thousands)	(2) Inactive Members (In thousands)	(3) Active Members (Employer- Financed Portion) (In thousands)	Valuation Assets (In thousands)	(1)	(2)	(3)			
June 30, 2010 ⁽²⁾	\$716,675	\$5,909,080	\$2,222,033	\$4,739,128	100%	68.1%	0.0%			
June 30, 2009	692,105	5,292,808	1,862,601	4,472,958	100	71.4	0.0			
June 30, 2008 ⁽²⁾	654,662	5,181,676	1,782,840	4,936,976	100	82.6	0.0			
June 30, 2007	638,420	4,912,025	1,638,958	4,424,399	100	77.1	0.0			
June 30, 2006 ⁽²⁾⁽³⁾	615,207	4,925,922	1,688,722	4,141,700	100	71.6	0.0			
June 30, 2005	589,169	4,694,176	1,215,211	3,958,939	100	71.8	0.0			
June 30, 2004 ⁽²⁾	569,435	4,423,036	1,131,129	3,845,370	100	74.1	0.0			
June 30, 2003	548,947	4,105,445	1,181,217	3,752,285	100	78.0	0.0			
June 30, 2002 ⁽¹⁾⁽²⁾⁽³⁾	523,142	3,755,882	1,132,618	3,689,036	100	84.3	0.0			
June 30, 2001	533,752	3,213,431	855,964	4,372,229	100	100.0	73.0			

 $Health care\ liabilities\ are\ calculated\ using\ the\ funding\ assumptions\ (i.e., funding\ investment\ return\ and\ net\ of\ Medicare\ Part\ D\ subsidy)$

⁽¹⁾ Change in Asset Valuation Method. (2) Change of Assumptions (3) Change in Methods.

Teachers' Retirement System **Analysis of Financial Experience**

Change in Employer/State Contribution Rate Due to (Gains) and Losses in Accrued Liabilities **During the Last Five Fiscal Years Resulting From** Differences Between Assumed Experience and Actual Experience

Type of	Change in Employer/State Contribution Rate During Fiscal Year						
(Gain) or Loss	2010	2009	2008	2007	2006		
Health Experience	0.19%	(2.67)%	(1.22)%	(3.90)%	(2.52)%		
Salary Experience	0.59	0.29	0.43	(0.27)	0.79		
Investment Experience	0.05	7.23	(0.85)	(1.37)	(0.36)		
Demographic Experience	(0.75)	(0.54)	(0.33)	1.63	(0.27)		
Contribution Shortfall	<u>0.01</u>	(0.26)	<u>(0.98</u>)	_1.31	1.21		
(Gain) or Loss During Year From Experience	0.09	4.05	(2.95)	(2.60)	(1.15)		
Non-recurring changes							
Asset Valuation Method	-	-	-	-	-		
Past Service Amortization Change	-	-	-	-	-		
Assumption and Method Changes	6.86	-	1.98	(2.04)*	3.06		
System Benefit Changes			_	-			
Composite (Gain) Loss During Year	6.95	4.05	(0.97)	(4.64)	1.91		
Beginning Total Employer/State Contribution Rate	<u>42.61</u>	<u>38.56</u>	<u>39.53</u>	<u>44.17</u>	<u>42.26</u>		
Ending Total Employer/State Contribution Rate	49.56	42.61	38.56	39.53	44.17		
Board Adopted Contribution Rate	52.67% ====	45.55% ====	38.56%	39.53% ——	44.17%		
Fiscal Year Above Rate is Applied	FY13	FY12	FY11	FY10	FY09		

^{*} Includes change in rate by using total payroll.

Teachers' Retirement System Analysis of Financial Experience

Change in Employer/State Contribution Rate Due to (Gains) and Losses in Accrued Liabilities During the Last Three Fiscal Years Resulting From Differences Between Assumed Experience and Actual Experience

	Change in Employer/State Contribution Rate During Fiscal Year					
		Pension		Healthcare		
Type of (Gain) or Loss	2010	2009	2008	2010	2009	2008
Health Experience	N/A	N/A	N/A	0.19%	(2.67)%	(1.22)%
Salary Experience	0.59%	0.29%	0.43%	N/A	N/A	N/A
Investment Experience	(0.34)	6.53	(0.62)	0.39	0.70	(0.23)
Demographic Experience	(0.75)	(0.54)	(0.33)	N/A	N/A	N/A
Contribution Shortfall	_0.46	0.01	<u>(0.11</u>)	(0.45)	(0.27)	(0.87)
(Gain) or Loss During Year From Experience	(0.4)	6.29	(0.63)	0.13	(2.24)	(2.32)
Non-recurring changes						
Asset Valuation Method	-	-	-	_	-	-
Past Service Amortization Change	-	-	-	-	-	-
Assumption and Method Changes	3.96	-	-	2.90	-	1.98
System Benefit Changes				-		
Composite (Gain) Loss During Year	_3.92	6.29	<u>(0.63</u>)	_3.03	(2.24)	(0.34)
Beginning Total Employer/State Contribution Rate	26.61	20.32	<u>20.95</u>	<u>16.00</u>	<u>18.24</u>	<u>18.58</u>
Ending Total Employer/State Contribution Rate	30.53%	<u>26.61</u> %	20.32%	19.03%	16.00%	18.24%
Fiscal Year Above Rate is Applied	FY13	FY12	FY11	FY13	FY12	FY11

Summary of Plan Provisions

(1) Effective Date

July 1, 1955, with amendments through June 30, 2010. Chapter 97, 1990 Session Laws of Alaska, created a two-tier retirement system. Members who were first hired under the 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.

(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 58 employers participating in the TRS, including the State of Alaska, 53 school districts, and four other eligible organizations.

(4) Membership

Membership in the Alaska 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 the TRS;
- members on approved sabbatical leave under AS 14.20.310;

Summary of Plan Provisions

- certain State legislators who have elected to be covered under the TRS; and
- a teacher who has filed for workers' compensation benefits due to an on-the-job assault and who, as a result of the physical injury, is placed on leave without pay.

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

Employees who work half-time in the 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.

(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.

Summary of Plan Provisions

(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).

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 pay amount over fixed 25-year periods.

Employer rates cannot be less than the normal cost rate.

(7) Additional State Contributions

Pursuant to AS14.25.070 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 (12.56%) will be sufficient to pay the total contribution rate adopted by The State of Alaska Retirement Management Board.

(8) Member Contributions

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

<u>Contributions for Claimed Service</u>: Member contributions are also required for most of the claimed service described in (5) 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 (13) below). Supplemental contributions are only refundable upon death (see (13) below).

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

<u>Refund of Contributions</u>: 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.

<u>Reinstatement of Contributions</u>: Refunded accounts and the corresponding TRS service may be reinstated upon reemployment in the TRS prior to July 1, 2010. Accounts attached to satisfy claims under Alaska Statute 09.38.065 or a federal tax levy may be reinstated at any time. Interest accrues on refunds until paid in full or members retire.

STATE OF ALASKA TEACHERS' RETIREMENT SYSTEM

Summary of Plan Provisions

(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:
 - (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 the 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 those options and early retirement, benefits are actuarially adjusted so that members receive the actuarial equivalents of their normal benefit amounts.

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Summary of Plan Provisions

Benefit Calculation: 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. The 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%.

<u>Indebtedness</u>: 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.

(10) Reemployment of Retired Members

Retirees who return to work in a permanent full-time or part-time TRS position after a Normal Retirement have two options available, the Standard Option or the Waiver Option.

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

If an Alaska school district has established that there is a shortage of teachers in a particular discipline or specialty and has passed a resolution to that effect, a retiree returning to work in a permanent full-time or part-time TRS position with that school district may exercise the Waiver Option. The Waiver Option allows a retiree who retired under a Normal Retirement to reemploy with a TRS employer and continue to receive a retirement benefit by signing a waiver of participation in the TRS. The Waiver Option first became effective July 1, 2005 and applies to reemployment periods after that date. The Waiver Option is no longer available after June 30, 2009.

The Waiver Option is not available to members who retired early or under the Retirement Incentive Program (RIP).

Members retired under the RIP who return to employment under the TRS, Public Employees' Retirement System (PERS), Judicial Retirement System (JRS) or the University of Alaska's Optional Retirement Plan will:

- (a) forfeit the three years of incentive credits that they received;
- (b) owe the 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.

Summary of Plan Provisions

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.

(11) Postemployment Healthcare Benefits

When pension benefits begin, major medical benefits are provided by the 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 twenty-five years of membership service, are disabled or age sixty 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 sixty by paying premiums.

(12) 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.

(13) Death Benefits

Monthly death benefits may be paid to a spouse or dependent children upon the death of a member. If monthly benefits are not payable under the supplemental contributions provision or occupational and nonoccupational death provisions, the designated beneficiary receives the lump sum benefit described below.

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

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

<u>Lump Sum Benefit</u>: 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, indebtedness payments, and interest earned. Any supplemental contributions will also be refunded. If the member has more than one year of TRS service or is vested, the beneficiary also receives \$1,000 and \$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.

Summary of Plan Provisions

<u>Supplemental Contributions Provision</u>: Members are eligible for supplemental coverage if they joined the 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 (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 the 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) <u>Survivor's Allowance</u>: 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) <u>Spouse's Pension</u>: 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.

<u>Death After Retirement</u>: 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.

(14) 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, excluding the Alaska COLA, times:

- (a) 75% of the CPI increase in the preceding calendar year or 9%, whichever is less, if the recipient is at least age 65 or on TRS disability; or
- (b) 50% of the CPI increase in the preceding calendar year or 6%, whichever is less, 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 I) if the CPI increases and the funding ratio is at least 105%.

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

Summary of Plan Provisions

(15) Alaska Cost of Living Allowance

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

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

Changes in Benefit Provisions Since the Prior Valuation

There has been no changes in benefit provisions since the prior valuation.

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buckconsultants

A Xerox Company

September 23, 2011

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

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

Actuarial Certification

The annual actuarial valuation required for the State of Alaska Teachers' Retirement System Defined Contribution Retirement (DCR) Plan has been prepared as of June 30, 2010 by Buck Consultants. The purposes of the report include:

- (1) a presentation of the valuation results of the Plan as of June 30, 2010;
- (2) a review of experience under the Plan for the year ended June 30, 2010;
- (3) a determination of the appropriate contribution rate which will be applied for the fiscal year ending June 30, 2013; and
- (4) the provision of reporting and disclosure information for financial statements, governmental agencies, and other interested parties.

The following schedules that we have prepared are included in this report:

- (1) Summary of actuarial assumptions and methods
- (2) Schedule of active member valuation data
- (3) Solvency test
- (4) Schedule of Funding Progress, Schedule of Employer Contributions and trend data schedules

In preparing this valuation, we have employed generally accepted actuarial methods and assumptions, in conjunction with employee data provided to us by the Division of Retirement and Benefits and financial information provided in the financial statements audited by KPMG LLP, to determine a sound value for the Plan liability. The employee data has not been audited, but it has been reviewed and found

Tabor Center, 1200 17th Street, Suite 1200 • Denver, CO 80202 720.359.7700 • 720.359.7701 (fax)

The Alaska Retirement Management Board, The Department of Revenue and The Department of Administration September 23, 2011
Page 2

to be consistent, both internally and with prior years' data. The actuarial assumptions are based on the results of an experience study presented to the Alaska Retirement Management Board (Board) in September 2010 and adopted by the Board in December 2010. Actuarial methods, medical cost trend, and assumed blended medical premiums were also reviewed during the experience study.

The contribution requirements are determined as a percentage of payroll, and reflect the cost of benefits accruing in FY11 and a fixed 25-year amortization as a level percentage of payroll of the initial unfunded accrued liability and subsequent gains/losses. The amortization period is set by the Board. Contribution levels are recommended by the Actuary and adopted by the Board each year. The ratio of valuation assets to liabilities decreased from 234.5% to 223.5% during the year. This report provides an analysis of the factors that led to the decrease.

A summary of the actuarial assumptions and methods is presented in this report. The assumptions, when applied in combination, fairly represent past and anticipated future experience of the Plan.

The funding objective of the plan, as adopted by the ARM Board, is to set a contribution rate that will pay the normal cost and amortize the initial unfunded actuarial accrued liability and each subsequent annual change in the unfunded actuarial accrued liability over a closed 25-year period as a level percentage of payroll. The funding objective for the plan, as adopted by the ARM Board, is currently being met.

Future contribution requirements may differ from those determined in the valuation because of:

- (1) differences between actual experience and anticipated experience based on the assumptions;
- (2) changes in actuarial assumptions or methods;
- (3) changes in statutory provisions; or
- (4) differences between the contribution rates determined by the valuation and those adopted by the Board.

The undersigned are members of the American Academy of Actuaries and the Society of Actuaries, are fully qualified to provide actuarial services to the State of Alaska, and are available to answer questions regarding this report.

We believe that the assumptions and methods used for funding purposes and for the disclosures presented in this report satisfy the parameter requirements set forth in the Government Accounting Standards Board (GASB) Statement Nos. 25 and 43.



The Alaska Retirement Management Board, The Department of Revenue and The Department of Administration September 23, 2011 Page 3

We believe that this report conforms with the requirements of the Alaska statutes, and where applicable, other federal and accounting laws, regulations and rules, as well as generally accepted actuarial principles and practices.

Sincerely,

David H. Slishinsky, ASA, EA, MAAA

David H. Slashinsky

Principal, Consulting Actuary

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 her qualification to render opinions in such matters, in accordance with the qualification standards of the American Academy of Actuaries.

Melissa Bissett, FSA, MAAA

Melisse a Bissett

Senior Consultant, Health & Productivity

Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Actuarial Assumptions, Methods and Procedures

The demographic and economic assumptions used in the June 30, 2010 valuation are described below. Unless noted otherwise, these assumptions were adopted by the Board in December 2010. These assumptions were the result of an experience study performed for the DB Plan as of June 30, 2009. The funding method used in this valuation was adopted by the Board in October 2006. The asset smoothing method used to determine valuation assets was changed effective June 30, 2002.

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 - Entry Age Actuarial Cost

Liabilities and contributions shown in the report are computed using the Entry Age Actuarial Cost method of funding. Any funding surpluses or unfunded accrued liability is amortized over 25 years as a level percentage of expected payroll. Payroll is assumed to increase by the payroll growth assumption per year for this purpose. However, in keeping with GASB requirements, the net amortization period will not exceed 30 years.

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 (constant dollar amount for 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.

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 will be phased in over five years. Market Value of Assets were \$0 as of June 30, 2006. All assets are valued at market 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 market value of assets.

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Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Actuarial Assumptions, Methods and Procedures

C. Valuation of Retiree Medical Benefits

The methodology used for the valuation of the retiree medical benefits is described in Section 2.3(c) of the State of Alaska Teachers' Retirement System Defined Benefit Plan Actuarial Valuation Report as of June 30, 2010.

Due to the lack of experience for the DCR Plan only, base claims costs are based on those described in the actuarial valuation as of June 30, 2010 for TRS 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 different coverage levels and an indexing of the retiree out-of-pocket dollar amounts. To account for higher initial copays, deductibles and out-of-pocket limits, FY10 claims costs were reduced 5.9% for medical and 0.7% for prescription drugs. Retiree out-of-pocket amounts were indexed 4.8% each year to reflect the effect of the deductible leveraging on trend, putting the annual projected trend closer to the ultimate trend rate.

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, as such participants will be required to pay the full plan premium. Explicit subsidies for disabled and normal retirement are determined using the plan-defined percentages of total projected plan costs, again with no implicit subsidy assumed.

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 of the following provisions; however, none of the impacts have been included in the valuation results.

- Because the State plan is retiree-only, and was in effect at the time the legislation was enacted, not all provisions are required. 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.
- The Plan will be subject to the high cost plan excise tax (Cadillac tax). Based upon guidance available at the time
 of disclosures, Buck estimated the year in which the tax would potentially affect Alaska to be 2047, and with a
 minimal impact. Buck determined the impact to be immaterial based on a blend of pre-Medicare and Medicare
 retirees.

We have not identified any other specific provisions of healthcare reform that would be expected to have a significant impact on the measured obligation. As additional guidance on the legislation is issued, we will continue to monitor any potential impacts.

Changes in Methods From the Prior Valuation

There were no changes in methods from the prior valuation.

STATE OF ALASKA TEACHERS' RETIREMENT SYSTEM

Defined Contribution Retirement Plan Occupational Death and Disability and Retiree Medical Benefits Summary of Actuarial Assumptions, Methods and Procedures

D. Actuarial Assumptions

Investment Return/
Discount Rate
 8.00% per year (geometric), compounded annually, net of expenses.

2. Salary Scale Inflation - 3.12% per year

Productivity - 0.5% per year See Table 1 for salary scale rates.

3. Payroll Growth 3.62% per year

4. Total Inflation Total inflation as measured by the Consumer Price Index for urban and clerical

workers for Anchorage is assumed to increase 3.12% annually.

5. Mortality (Pre-termination) Based upon the 2005-2009 actual experience of the TRS DB Plan. (See Table

2). 55% of the 1994 Group Annuity Mortality (GAM) Table, 1994 Base Year without margin projected to 2013 using Projection Scale AA for females and 45% for males. 15% of deaths are assumed to result from occupational causes.

6. Mortality (Post-termination) Based upon the 2005-2009 actual experience of the TRS DB Plan. (See Table

3). 3-year setback of the 1994 GAM Table, 1994 Base Year without margin projected to 2013 using Projection Scale AA for females and 4-year setback for

males.

7. Turnover Select rates were estimated and ultimate rates were set to the TRS DB Plan's

rates loaded by 10%. (See Table 4).

8. Disability Incidence rates based upon the 2005-2009 actual experience of the TRS DB

Plan, in accordance with Table 5. Post-disability mortality in accordance with the RP-2000 Disabled Retiree Mortality Table. 15% of disabilities are assumed

to result from occupational causes.

9. Retirement rates were estimated in accordance with Table 6.

10. Marriage and Age Wives are assumed to be three years younger than husbands. 85% of male

Difference members and 75% of female members are assumed to be married.

11. Part-time Status Part-time employees are assumed to earn 0.60 years of credited service per year.

12. Expenses All expenses are net of the investment return assumption.

Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Actuarial Assumptions, Methods and Procedures

13. Per Capita Claims Cost

Sample claims cost rates adjusted to age 65 for FY11 medical benefits are shown below:

		Prescription
	<u>Medical</u>	Drugs
Pre-Medicare	\$8,606	\$2,600
Medicare Parts A & B	1,563	2,600
Medicare Part B Only	6,654	2,600
Medicare Part D	N/A	515

14. Third Party
Administrator Fees

\$153.33 per person per year; assumed trend rate of 5% per year.

15. 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 adjustments were made:

- 0.941 for the medical plan.
- 0.993 for the prescription drug plan.
- 0.952 for the annual indexing for member cost sharing.

16. 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, 6.9% is applied to the FY11 medical claims costs to get the FY12 medical claims costs.

	Medical	Prescription <u>Drugs</u>
FY11	6.9%	8.3%
FY12	6.4	7.1
FY13	5.9	5.9
FY14	5.9	5.9
FY15	5.9	5.9
FY16	5.9	5.9
FY17	5.9	5.9
FY25	5.8	5.8
FY50	5.7	5.7
FY100	5.1	5.1

For the June 30, 2008 valuation and later, the Society of Actuaries' Healthcare Cost Trend Model is used to project medical and prescription drug costs. This model effectively begins estimating trend amounts beginning in 2012 and projects out to 2100. The model has been populated with assumptions that are specific to the State of Alaska.

STATE OF ALASKA TEACHERS' RETIREMENT SYSTEM

Defined Contribution Retirement Plan Occupational Death and Disability and Retiree Medical Benefits Summary of Actuarial Assumptions, Methods and Procedures

17. Aging Factors

Age	Medical	Prescription <u>Drugs</u>
0-44	2.0%	4.5%
45-54	2.5	3.5
55-64	3.5	3.0
65-74	4.0	1.5
75-84	1.5	0.5
85-94	0.5	0.0
95+	0.0	0.0

18. Retiree Medical Participation

Years of Service	Percent Participation
10-14	75%
15-19	80
20-24	85
25-29	95
30+	100

Defined Contribution Retirement Plan Occupational Death and Disability and Retiree Medical Benefits Summary of Actuarial Assumptions, Methods and Procedures

Table 1 Alaska TRS DCR Plan **Salary Scale**

Year of Employment	Unisex Rate
1-6	6.11%
7	5.94
8	5.78
9	5.61
10	5.44
11	5.28
12	5.11
13	4.94
14	4.78
15	4.61
16	4.45
17	4.28
18	4.11
19	3.95
20	3.78
21+	3.62

Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Actuarial Assumptions, Methods and Procedures

Table 2
Alaska TRS DCR Plan
Mortality Table (Pre-termination)

20 .017% .012% 21 .018 .012 22 .019 .012 23 .021 .013 24 .024 .013 25 .026 .013 26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .023 .04 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .044	Age	Male	Female
21 .018 .012 22 .019 .012 23 .021 .013 24 .024 .013 25 .026 .013 26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060	20	.017%	.012%
22 .019 .012 23 .021 .013 24 .024 .013 25 .026 .013 26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060			
23 .021 .013 24 .024 .013 25 .026 .013 26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .023 .036 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069			
24 .024 .013 25 .026 .013 26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .023 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075		.021	.013
25 .026 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51			
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30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131			
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35 .037 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284			
36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239		.037	
37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239			
38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239			.025
39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	38		
40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239			
41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239		.045	
42 .050 .037 43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	41		
43 .053 .039 44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	42		
44 .056 .041 45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	43		
45 .060 .042 46 .064 .044 47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239			.041
47 .069 .047 48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239		.060	.042
48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	46	.064	.044
48 .075 .051 49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	47	.069	.047
49 .081 .055 50 .088 .061 51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	48		.051
51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	49		
51 .097 .068 52 .106 .078 53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	50	.088	.061
53 .118 .090 54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239		.097	
54 .131 .102 55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	52	.106	.078
55 .149 .116 56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	53	.118	.090
56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239		.131	.102
56 .170 .135 57 .195 .157 58 .224 .181 59 .253 .208 60 .284 .239	55	.149	.116
58 .224 .181 59 .253 .208 60 .284 .239	56	.170	.135
58 .224 .181 59 .253 .208 60 .284 .239	57	.195	.157
59 .253 .208 60 .284 .239	58	.224	.181
60 .284 .239		.253	.208
· · · · · · · · · · · · · · · · · · ·		.284	.239
	61	.326	.274
.368 .314			
63 .425 .359	63	.425	.359
.479 .410	64	.479	.410

Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Actuarial Assumptions, Methods and Procedures

Table 3
Alaska TRS DCR Plan
Mortality Table (Post-termination)

Age	Male	<u>Female</u>
50	.142%	.085%
51	.153	.092
52	.166	.100
53	.181	.111
54	.196	.124
55	.215	.143
56	.235	.163
57	.263	.185
58	.291	.212
59	.331	.246
60	.377	.285
61	.433	.328
62	.499	.378
63	.561	.434
64	.631	.498
65	.725	.570
66	.819	.653
67	.944	.745
68	1.064	.844
69	1.196	.948
70	1.362	1.052
71	1.512	1.150
72	1.634	1.242
73	1.787	1.342
74	1.915	1.434
75	2.094	1.583
76	2.298	1.726
77	2.518	1.918
78	2.748	2.094
79	3.061	2.338
80	3.361	2.669
81	3.788	2.985
82	4.292	3.327
83	4.868	3.707
84	5.510	4.136
85	6.214	4.625

Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Actuarial Assumptions, Methods and Procedures

Table 4 Alaska TRS DCR Plan Turnover Assumptions Select Rates of Turnover During the First 5 Years of Employment

Year of Employment	Rate
0	18%
1	17
2	14
3	12
4	10

Ultimate Rates of Turnover After the First 5 Years of Employment

Age	Male	Female	Age	Male	Female
15	4.9042%	4.8122%	40	4.7508%	4.6924%
16	4.8981	4.8085	41	4.7372	4.6815
17	4.8931	4.8061	42	4.7199	4.6706
18	4.8882	4.8049	43	4.7038	4.6609
19	4.8857	4.8037	44	4.6827	4.6488
20	4.8474	4.7686	45	4.6593	4.6343
21	4.8448	4.7686	46	4.6345	4.6210
22	4.8399	4.7674	47	4.6035	4.6028
23	4.8362	4.7674	48	4.5676	4.5823
24	4.8300	4.7662	49	4.5306	4.5617
25	4.8250	4.7662	50	4.4884	4.5375
26	4.8201	4.7650	51	4.4389	4.5097
27	4.8151	4.7638	52	4.3808	4.4770
28	4.8102	4.7601	53	4.3164	4.4383
29	4.8052	4.7565	54	4.2447	4.3971
30	4.8015	4.7529	55	4.1630	4.3475
31	4.7991	4.7505	56	4.0640	4.2834
32	4.7953	4.7456	57	3.9427	4.2011
33	4.7929	4.7420	58	3.8103	4.1080
34	4.7916	4.7372	59	3.6507	3.9894
35	4.7892	4.7323	60	3.4713	3.8551
36	4.7854	4.7251	61	3.2720	3.7050
37	4.7805	4.7190	62	3.0406	3.5344
38	4.7718	4.7105	63	2.7770	3.3396
39	4.7619	4.7021	64	2.4912	3.1279
			65+	4.9500	4.8400

Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Actuarial Assumptions, Methods and Procedures

Table 5 Alaska TRS DCR Plan Disability Table

Age	Male	<u>Female</u>
20	.022%	.020%
21	.022	.020
22	.023	.021
$\frac{-2}{23}$.023	.021
24	.024	.022
25	.024	.022
26	.024	.022
27	.025	.022
28	.026	.023
29	.026	.024
30	.027	.025
31	.027	.025
32	.028	.025
33	.029	.026
34	.030	.027
35	.030	.027
36	.032	.029
37	.033	.030
38	.034	.031
39	.035	.032
40	.037	.033
41	.038	.035
42	.041	.037
43	.043	.039
44	.047	.043
45	.052	.047
46	.056	.050
47	.061	.055
48	.066	.060
49	.071	.064
50	.077	.069
51	.083	.075
52	.091	.082
53	.102	.091
54	.114	.102
55	.128	.115
56	.147	.133
57	.171	.154
58	.195	.176
59	.230	.207
60	.270	.243
61	.312	.281
62	.362	.325
63	.418	.376
64	.477	.429
0	• • / /	•>

STATE OF ALASKA TEACHERS' RETIREMENT SYSTEM

Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Actuarial Assumptions, Methods and Procedures

Table 6 Alaska TRS DCR Plan Retirement Table

Age	Rate
<55	2%
55-59	3
60	5
61	5
62	10
63	5
64	5
65	25
66	25
67	25
68	20
69	20
70	100

Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Actuarial Assumptions, Methods and Procedures

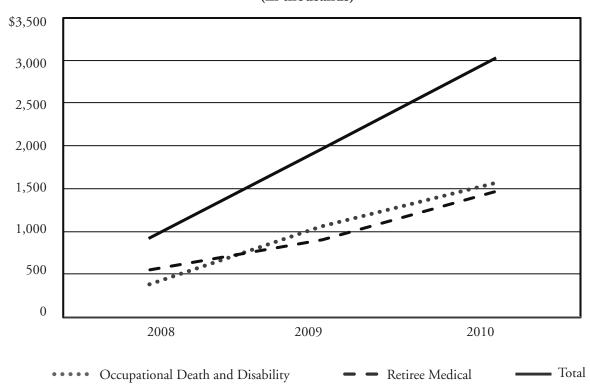
Changes in Actuarial Assumptions Since the Prior Valuation

	June 30, 2009	June 30, 2010	
Investment Return/ Discount Rate	8.25% per year (geometric), compounded annually, net of expenses.	8.00% per year (geometric), compounded annually, net of expenses.	
Salary Scale	Based on actual TRS DB Plan experience from 2001 to 2005.	Rates adjusted based on actual experience from 2005 to 2009	
Payroll Growth	4.00% per year	3.62% per year	
Inflation	3.50%	3.12%	
Pre-termination Mortality	55% of the 1994 GAM Table, 1994 Base Year for males. 60% for females.	45% of the 1994 GAM Table, 1994 Base Year projected to 2013 using Projection Scale AA for males. 55% for females.	
Post-termination Mortality	1-year setback of the 1994 GAM Table, 1994 Base Year for females and 3-year setback for males.	3-year setback of the 1994 GAM Table, 1994 Base Year projected to 2013 using Projection Scale AA for females and 4-year setback for males.	
Disability Mortality	1979 PBGC Disability Mortality Table for those receiving Social Security disability benefits.	RP-2000 Disabled Retiree Mortality Table.	
Turnover	Unisex 5-year select period, ultimate rates are sex-distinct and are equal to the DB Plan's rates loaded by 10%.	Most unisex select rates increased, ultimate rates are sex-distinct and are equal to the DB Plan's rates loaded by 10%.	
Disability	Based on actual TRS DB Plan experience from 2001 to 2005.	Rates adjusted based on actual TRS DB Plan experience from 2005 to 2009.	
Part-time Service	0.55 years of credited service per year.	0.60 years of credited service per year.	
Healthcare Participation	100% of members and their spouses are assumed to elect healthcare benefits as soon as they are eligible.	Years of Service Participation 10-14 75% 15-19 80 20-24 85 25-29 95 30+ 100	

Teachers' Retirement System Defined Contribution Retirement Plan for 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	
2008	\$ 376	\$ 551	\$ 927	215.73%	
2009	1,057	907	1,964	234.5	
2010	1,559	1,465	3,024	223.5	

3-YEAR TREND OF UNFUNDED LIABILITY (in thousands)



Teachers' Retirement System Defined Contribution Retirement Plan For Occupational Death and Disability And Retiree Medical Benefits Employer Contribution Rates

Fiscal Year	Actuarial Valuation Year Ended June 30	Occupational Death and Disability	Retiree Medical	Total Annual Required	Adopted
2007	N/A	N/A	1.75%	1.75%	1.75%
2008	N/A	0.56	0.99	1.55	1.55
2009	N/A	0.62	0.99	1.61	1.61
2010	2007	0.32	1.03	1.35	1.35
2011	2008	0.28	0.68	0.96	0.96
2012	2009	0.00	0.58	0.58	0.58
2013	2010	0.00	0.49	0.49	0.49

Valuations are used to set contribution rates in future years.

Teachers' Retirement System Defined Contribution Retirement Plan For Occupational Death and Disability And Retiree Medical Benefits Schedule of Active Member Valuation Data

Valuation Date	Number	Annual Earnings ¹ (In thousands)	Annual Average Earnings	Percent Increase/ (Decrease) In Average Earnings	Number of Participating Employers
June 30, 2010	2,246	\$118,813	\$52,900	5.7%	58
June 30, 2009	1,792	89,708	50,061	6.4	58
June 30, 2008	1,198	56,369	47,053	6.2	58
June 30, 2007	641	28,410	44,322	_	58
June 30, 2006	_	_	_	_	58

¹Annual earnings are the annualized earnings for the fiscal year ending on the valuation date.

Teachers' Retirement System Defined Contribution Retirement Plan For Occupational Death and Disability And Retiree Medical Benefits Solvency Test

	Aggregate Accrued Liability For:				Portion of Accrued Liabilities Covered by Assets		
Valuation Date	(1) Active Member Contributions (In thousands)	(2) Inactive Members (In thousands)	(3) Active Members (Employer- Financed Portion) (In thousands)	Valuation Assets (In thousands)	(1)	(2)	(3)
June 30, 2010 (1)	\$ —	\$ —	\$2,448	\$5,472	100%	100%	100%
June 30, 2009 ⁽¹⁾	_	_	1,460	3,424	100	100	100
June 30, 2008 ⁽¹⁾	_	_	801	1,728	100	100	100
June 30, 2007	_	_	374	597	100	100	100
June 30, 2006	_			_	100	100	100

Retiree medical liabilities are calculated using the funding assumptions (i.e., funding investment return and net of Medicare Part D subsidy.)

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⁽¹⁾ Change in Assumptions.



Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Plan Provisions

(1) Effective Date

July 1, 2006, with amendments through June 30, 2010.

(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 58 employers participating in the TRS DCR Plan, including the State of Alaska, 53 school districts, and four 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 participant 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 the DCR Plan if they are an eligible nonvested 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 the TRS DCR Plan.

(5) Member Contributions

There are no member contributions for the occupational death & disability and retiree medical benefits.

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Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Plan Provisions

(6) Retiree Medical

- 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 retiree medical benefits are provided until normal retirement eligibility. The member's premium is 100% until they are Medicare eligible.
- 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 plan's coverage is supplemental to Medicare.
- The Medicare-eligible premium 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		

(7) Occupational Disability Benefits

- Benefit is 40% of salary at date of disability.
- There is no increase in the benefit after commencement.
- 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 retiree medical benefits are provided until normal retirement eligibility. The member's premium is 100% until they are Medicare eligible. Medicare-eligible premiums follow the service-based schedule above.

STATE OF ALASKA TEACHERS' RETIREMENT SYSTEM

Defined Contribution Retirement Plan
Occupational Death and Disability and Retiree Medical Benefits
Summary of Plan Provisions

(8) Occupational Death Benefits

- Benefit is 40% of salary.
- There is no increase in the benefit after commencement.
- 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 retiree medical benefits are provided until the member would have been eligible for normal retirement. The
 surviving spouse's premium is 100% 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 benefit provisions since the prior valuation.

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