

Actuarial Valuation Report as of June 30, 2013

August 2014

buckconsultants

Submitted By:
Buck Consultants
1200 Seventeenth Street, Suite 1200
Denver, CO 80202

Table of Contents

Letter of Certification

Executive S	Summary	1
Comparati	ve Summary of Key Actuarial Valuation Results	10
Section 1:	Actuarial Funding Results	12
1.1	Actuarial Liabilities and Normal Cost	13
1.2	Actuarial Contributions	19
1.3	Actuarial Gain / (Loss)	28
1.4	Development of Change in Unfunded Liability during FY13	29
1.5	Analysis of Financial Experience	30
1.6	History of UAAL and Funded Ratio	33
Section 2:	Plan Assets	34
2.1	Summary of Fair Value of Assets	35
2.2	Changes in Fair Value of Assets	36
2.3	Actuarial Value of Assets	37
2.4	Historical Rate of Return	39
Section 3:	Accounting Information	40
3.1	Schedule of Funding Progress	41
3.2	Schedule of Employer Contributions	44
3.3	Notes to Trend Data	46
3.4	Solvency Test	47
Section 4:	Actuarial Funding Projections	50
4.1	Projection Assumptions and Methods	51
4.2	Membership Projection	52
4.3	Projection of Employer/State Contribution Rates	55
4.4	Projection of Employer/State Contribution Amounts	56
4.5	Projection of Funding Ratios	57
4.6	Table of Projected Actuarial Results	58
4.7	Sensitivity Analysis	59

Table of Contents

(continued)

Section 5:	Member Data	60
5.1	Summary of Members Included	61
5.2	Age and Service Distribution of Active Members	65
5.3	Member Data Reconciliation	67
5.4	Schedule of Active Member Data	68
5.5	Summary of New Pension Benefit Recipients	70
5.6	Summary of All Pension Benefit Recipients	74
5.7	Schedule of Pension Benefit Recipients by Type of Pension Benefit and O Elected	_
5.8	Pension Benefit Recipients Added to and Removed from Rolls	81
Section 6:	Basis of the Actuarial Valuation	83
6.1	Summary of Plan Provisions and Changes in Benefits	84
6.2	Description of Actuarial Methods and Valuation Procedures	93
6.3	Summary of Actuarial Assumptions and Changes	100
Glossary		114



A Xerox Company

buckconsultants

August 22, 2014

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

Certification of Actuarial Valuation

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

This report summarizes the annual actuarial valuation results of the State of Alaska Public Employees' Retirement System (PERS) as of June 30, 2013 performed by Buck Consultants, LLC.

The actuarial valuation is based on financial information provided in the financial statements audited by KPMG LLP and member data provided by the Division of Retirement and Benefits and summarized in this report. The benefits considered are those delineated in Alaska statutes effective June 30, 2013. The actuary did not verify the data submitted, but did perform tests for consistency and reasonableness.

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

The State of Alaska Public Employees' Retirement System is funded by Employer, State, and Member Contributions in accordance with the funding policy adopted by the Alaska Retirement Management Board (Board). The funding objective for the State of Alaska Public Employees' Retirement System is to pay required contributions that remain level as a percent of total PERS Compensation. The Board has also established a funding policy objective that the required contributions be sufficient to pay the Normal Costs of active plan members, System expenses, and amortize the Unfunded Actuarial Accrued Liability as a level dollar amount over a closed 25-year period. The Board changed the amortization method used for funding from the level percentage of payroll method to the level dollar method in June 2012, effective June 30, 2012. The compensation used to determine required contributions is the total compensation of all active members in PERS, including those hired after July 1, 2006 who are members of the Defined Contribution Retirement (DCR) Plan. This objective is currently being met and is projected to continue to be met.



The Alaska Retirement Management Board, The Department of Revenue and The Department of Administration
August 22, 2014
Page 2

In our opinion, the actuarial assumptions used are reasonable, taking into account the experience of the System and reasonable long-term expectations, and represent our best estimate of the anticipated long-term experience under the System. The actuary performs an analysis of System experience periodically and recommends changes if, in the opinion of the actuary, assumption changes are needed to more accurately reflect expected future experience. The last full experience analysis was performed in 2010. A review of the healthcare assumptions was performed for last year's actuarial valuation and changes were made to the healthcare cost trend rates and the per capita claim cost rates effective June 30, 2012 to better reflect expected future healthcare experience. Base on updated experience, these assumptions are still reasonable. A summary of the actuarial assumptions and methods used in this actuarial valuation are shown in Section 6 beginning on page 82.

The assumptions and methods used to determine the Annual Required Contributions (ARC) of the Employers to the State of Alaska Public Employees' Retirement System as outlined in this report and all supporting schedules meet the parameters and requirements for disclosure of Governmental Accounting Standards Board (GASB) Statements No. 25, Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans, and No. 43, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans. Based on member data and asset information provided by the Division of Retirement and Benefits, we have prepared the Schedule of Funding Progress, Schedule of Employer Contributions, and trend data schedules under GASB Nos. 25 and 43 that are included in the Financial Section of the CAFR. We have also prepared the member data tables shown in Section 5 of this report for the Statistical Section of the CAFR, and the summary of actuarial assumptions, solvency test, and analysis of financial experience for the Actuarial Section of the CAFR.

The undersigned is an Enrolled Actuary, an Associate of the Society of Actuaries and Member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all Applicable Actuarial Standards of Practice. We are available to answer any questions on the material contained in the report, or to provide explanations or further details as may be appropriate.

Respectfully submitted,

BUCK CONSULTANTS, LLC

David H. Slashinsky

David H. Slishinsky, ASA, EA, MAAA, FCA

Principal, Consulting Actuary



The Alaska Retirement Management Board, The Department of Revenue and The Department of Administration
August 22, 2014
Page 3

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

Milisa a Binett

Senior Consultant, Health & Productivity

EXECUTIVE SUMMARY

Overview

The State of Alaska Public Employees' Retirement System provides pension and postemployment healthcare benefits to eligible participants. The Commissioner of the Department of Administration is responsible for administering the System. The Alaska Retirement Management Board has fiduciary responsibility over the assets of the System. This report presents the results of the actuarial valuation of the System benefits as of the valuation date of June 30, 2013.

Purpose

An actuarial valuation is performed on the retirement plan annually as of the beginning of the fiscal year. The main purposes of the actuarial valuation detailed in this report are:

- 1. To determine the Employer/State contribution necessary to meet the Board's funding policy for the System;
- 2. To disclose the funding assets and liability measures as of the valuation date;
- 3. To disclose the accounting measures for the System required by GASB Nos. 25 and 43 as of the end of the last fiscal year;
- 4. To review the current funded status of the System;
- 5. To compare actual and expected experience under the System during the last fiscal year;
- 6. And to report trends in contributions, assets, liabilities, and funded status over the last several years.

The actuarial valuation provides a "snapshot" of the funded position of the PERS based on the plan provisions, membership, assets, and actuarial assumptions as of the valuation date. Actuarial projections are also performed to provide a long-term view of the expected future funding status and contribution patterns (see Section 4 beginning on page 50).

Future actuarial valuation measurements and projections may differ from the current measurements presented in this report due to such factors as: plan experience different from that anticipated by the economic and demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. The sensitivity analysis shown on page 59 is an example of the differences which can occur in projected contribution amounts when actual investment returns are different than assumed, but does not include the impact of all possible future differences that can impact future measurements.

Funding Status

The funding status is a measure of the progress that has been made in funding the plan as of the valuation date. It is determined as a ratio of the value of assets using either the actuarial or fair value of assets, divided by the total actuarial accrued liability on the valuation date. A ratio of over 100% represents a plan that is ahead in funding, and a ratio of less than 100% represents a plan that is behind in funding on the valuation date. A comparative summary of the funding ratio from the prior and current actuarial valuations follows:

Funding	g Status as of June 30 ¹	2012	2013
Pension	1		
(a)	Accrued Liability ²	\$ 11,428,944	\$ 11,945,881
(b)	Valuation Assets ²	6,530,421	6,510,749
(c)	Unfunded Accrued Liability ² , $(a) - (b)$	\$ 4,898,523	\$ 5,435,132
(d)	Funding Ratio based on Valuation Assets, $(b) \div (a)$	57.1%	54.5%
(e)	Fair Value of Assets ²	\$ 6,118,294	\$ 6,694,482
(f)	Funding Ratio based on Fair Assets, $(e) \div (a)$	53.5%	56.0%
Healthc	are		
(a)	Accrued Liability ²	\$ 7,863,417	\$ 8,046,878
(b)	Valuation Assets ²	<u>5,301,609</u>	<u>5,651,877</u>
(c)	Unfunded Accrued Liability ² , $(a) - (b)$	\$ 2,561,808	\$ 2,395,001
(d)	Funding Ratio based on Valuation Assets, $(b) \div (a)$	67.4%	70.2%
(e)	Fair Value of Assets ²	\$ 5,171,815	\$ 5,829,571
(f)	Funding Ratio based on Fair Assets, $(e) \div (a)$	65.8%	72.4%
Total			
(a)	Accrued Liability ²	\$ 19,292,361	\$ 19,992,759
(b)	Valuation Assets ²	11,832,030	<u>12,162,626</u>
(c)	Unfunded Accrued Liability ² , $(a) - (b)$	\$ 7,460,331	\$ 7,830,133
(d)	Funding Ratio based on Valuation Assets, $(b) \div (a)$	61.3%	60.8%
(e)	Fair Value of Assets ²	\$ 11,290,109	\$ 12,524,053
(f)	Funding Ratio based on Fair Assets, $(e) \div (a)$	58.5%	62.6%

² In thousands.

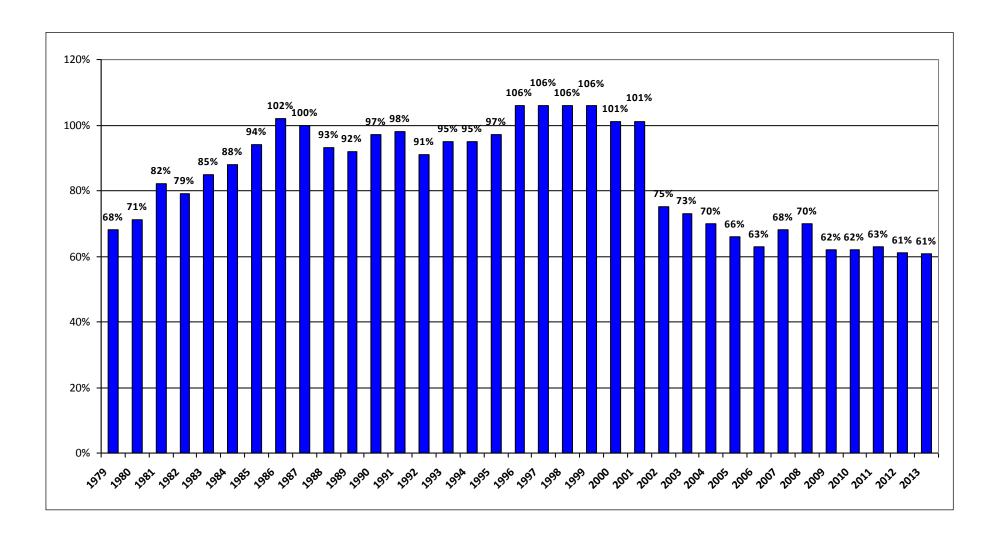


¹ Includes pension and healthcare benefits.

Executive Summary (cont'd)

PERS Funding Ratio History

(Based on Valuation Assets)





Executive Summary (cont'd)

As shown previously, the funding ratio based on valuation assets as of June 30, 2013 has decreased from 61.3% to 60.8%, a decrease of 0.5%. The calculated Employer/State contribution rate has increased from 39.85% of payroll for FY15 to 40.28% for FY16, an increase of 0.43% of payroll. The reasons for the change in the funded status and contribution rate are explained below.

(1) Retiree Medical Costs and Assumptions

The following table summarizes the monthly premium per benefit recipient since 1977.

Time Period	Monthly Premium Per Retiree For Health Coverage	Annual Percentage Change	Average Compound Annual Increase Since FY78
2/1/77-1/31/78	\$ 57.64	66%	
2/1/78-1/31/79	69.10	20%	20%
2/1/79-1/31/80	64.70	-6%	6%
2/1/80-1/31/81	96.34	49%	19%
2/1/81-1/31/82	96.34	0%	14%
2/1/82-1/31/83	115.61	20%	15%
2/1/83-1/31/84	156.07	35%	18%
2/1/84-1/31/85	191.85	23%	19%
2/1/85-1/31/86	168.25	-12%	14%
2/1/86-1/31/87	165.00	-2%	12%
2/1/87-1/31/88	140.25	-15%	9%
2/1/88-1/31/89	211.22	51%	13%
2/1/89-1/31/90	252.83	20%	13%
2/1/90-1/31/91	243.98	-4%	12%
2/1/91-1/31/92	243.98	0%	11%
2/1/92-1/31/93	226.90	-7%	10%
2/1/93-1/31/94	309.72	37%	11%
2/1/94-1/31/95	336.05	9%	11%
2/1/95-1/31/96	350.50	4%	11%
2/1/96-1/31/97	350.50	0%	10%
2/1/97-1/31/98	368.00	5%	10%
2/1/98-12/31/98	368.00	0%	9%
1/1/99-12/31/99	442.00	20%	10%
1/1/00-12/31/00	530.00	20%	10%
1/1/01-12/31/01	610.00	15%	10%
1/1/02-12/31/02	668.00	10%	10%
1/1/03-12/31/03	720.00	8%	10%
1/1/04-12/31/04	806.00	12%	10%
1/1/05-12/31/05	850.00	5%	10%
1/1/06-12/31/06	876.00	3%	10%
1/1/07-12/31/07	876.00	0%	10%
1/1/08-12/31/08	876.00	0%	9%
1/1/09-12/31/09	937.00	7%	9%
1/1/10-12/31/10	1,068.00	14%	9%
1/1/11-12/31/11	1,176.00	10%	9%
1/1/12-12/31/12	1,200.00	2%	9%
1/1/13-12/31/13	1,223.00	2%	9%
1/1/14-12/31/14	1,223.00	0%	9%

As shown in the above table, the monthly retiree medical premium for the January 1, 2014 to December 31, 2014 time period will increase to \$1,223. This represents an increase of 0% from the previous year's medical premium of \$1,223. The health cost trend rates used for this valuation are described in Section 6.3. Over the last 10 years, annual premium rate changes have ranged from no change to up to 14%. Also, over the last ten years, the increase in the premium rate has been about 4.3% compounded annually.

Executive Summary (cont'd)

An analysis of medical costs was completed based on claims information and enrollment data provided by HealthSmart (formerly Wells Fargo Insurance Services). Costs for medical services and prescriptions were analyzed separately, and separate trend rates were developed to project expected future medical and prescription costs. An offset for costs expected to be reimbursed by Medicare was incorporated beginning at age 65. Average medical claims were then distributed across the population based on expected increases in medical expenses that occur with age.

For the 2013 valuation, we updated incurred claims cost and Medicare offset analyses using fiscal 2013 incurred claims and enrollment information through June 2013. For Medicare Part B only participants, we were provided a census, from HealthSmart, of all current retirees that do not have Medicare Part A. A lower average claims cost was applied to retirees covered by both Medicare Part A and B vs. retirees covered only by Medicare Part B. 2013 experience rates were developed using historical incurred claims for fiscal years 2010 - 2013. The trend assumption is based on the proposed Society of Actuaries' Healthcare Cost Trend Model updated for 2012. The trend rate varies by year declining to 4.5% over 100 years. The trends vary by medical, pre-Medicare and Medicare, and aggregate prescription drugs.

For the 2013 valuation, we have not modified any management level reporting information used to develop per capita claim cost rates. We will continue to compare data from multiple sources and potentially modify future claims cost rate derivation to reflect salient information at the individual claimant level that may enhance global management level data. For the 2013 valuation, we do not recommend any changes to morbidity assumptions used to project increasing claims costs as members age. However, we will continue to compare age-based claims costs derived from individual claimant data to the current morbidity curve and potentially modify the assumed aging impact on claims costs in future valuations. Finally, explicit third-party administration (TPA) costs were added to medical and prescription claims cost rates. Per-member TPA costs are derived from the go-forward Aetna contract and are projected to increase at the assumed rate of 5%.

Based upon variations in medical cost trends between Medicare-eligible and pre-Medicare populations, Buck's practice is to use separate healthcare cost trends for these populations. This, in conjunction with updates to legislation, long-term trend models and time since prior assumptions were set, indicated a need to re-set this assumption for the 2012 valuation. Based upon emerging experience, we did not update the trend assumptions for the 2013 valuation.

Executive Summary (Cont'd)

Since 2004, the funding valuation also reflects the impact of the Medicare Part D Retiree Drug Subsidy (RDS) in the projection of prescription drug benefit costs. Buck's actuaries have attested that the prescription drug benefits meet the actuarial equivalence requirements and the plan qualifies to receive the RDS under the Medicare Prescription Drug, Improvement and Modernization Act of 2003 (MMA) for calendar 2013 and 2014. Based on current plan provisions and utilization data, we anticipate the plan will continue to qualify for RDS payments. The State has shared its payments for calendar 2006 through December 2012 and this information was used to estimate future RDS payments in this valuation. Please note, Part D subsidies are not reflected for accounting purposes under GASB No. 43.

Utilization and claims cost data indicate that healthcare experience emerging since the prior valuation is increasing slightly, but still favorably, compared to industry and aggregate trend expectations. Some of the favorable experience can be attributed to the lower proportion of participants not eligible for Medicare Part A as compared to historical valuation claims costs. With the introduction of a health improvement plan for State employees, as well as disease management provided by the TPA, it is hoped that the incidence of the most severe and costly chronic conditions can maintain a more manageable and stable level. As with the prior valuation, a weighting methodology is employed, where each of the experience years is weighted appropriately, with more emphasis on the most recent two years, when calculating the claims costs. This has the effect of preventing any one year from unduly influencing the claims costs. In the current valuation, we averaged national trend assumptions with Alaska-specific trend, with 75% weight to Alaska-specific trend and 25% to national trend, during the experience period to give more credibility to Alaska-specific experience while still reflecting national trends.

The new third-party administration contract effective January 1, 2014 is expected to deliver greater medical network and pharmacy discount savings compared to levels implicit in claims data used to develop base-year claim cost rates.

Further detail on development of base claim cost rates is provided in Section 6.2(C) below.

Executive Summary (cont'd)

The following table summarizes data sources and assumptions and the relative impact changes in each have on healthcare cost projections for 2013 as compared to 2012:

Healthcare Cost Rate Data Source or Assumption Change, 2013 vs. 2012	Gain / Loss Impact on 2013 Valuation Results
Claim lag specific to medical and prescription experience	Negligible
Individual claims level data	No impact on cost data used for 2012, though potentially a source of future modifications
	No impact on morbidity assumptions used for 2012, though potentially a source of future modifications
Explicit TPA fees	Negligible
Assumed TPA medical and pharmacy network discounts	Modest gain
Actual RDS payments received	Negligible
Averaging Alaska-specific trend during the experience period with Health Care Cost Trend Rates (HCCTR) used to bring prior data forward to the valuation year	N/A / Negligible
Aggregate claims data	Moderate gain due to experience, but dampened by weighting methodology
Census Data – Medicare Part B only participation	Gain due to fewer Medicare Part B only participants as compared to historical estimates

Executive Summary (cont'd)

(2) Investment Experience

The approximate FY13 investment return based on fair values was 12.1% compared to the expected investment return of 8.00%. This resulted in a gain of approximately \$478 million to the System from investment experience. The asset valuation method recognizes 20 percent of this gain (\$95.5 million) this year and an additional 20 percent in each of the next 4 years. In addition, 20 percent of the FY09 investment loss, 20 percent of the FY10 investment gain, 20 percent of the FY11 investment gain, and 20 percent of the FY12 investment loss were recognized this year. The approximate FY13 investment return based on actuarial values was 4.0%, compared to the expected investment return of 8.00%. The net result was an investment loss of \$469.0 million which decreased the funding ratio by 2.3% and increased the Employer/State contribution rate by 1.76%.

(3) Salary Increase

During the period from June 30, 2012 to June 30, 2013, salary increases for continuing active members were more than anticipated in the valuation assumptions. Higher accrued liabilities caused the funding ratio to decrease by 0.1%. The net effect of the salary loss was an increase of 0.23% in the Employer/State contribution rate.

(4) Demographic Experience

Section 5 provides statistics on active participants. The number of active participants decreased 7.8%, from 22,730 at June 30, 2012 to 20,955 at June 30, 2013 due to members retiring and terminating during the year and the closure of the plan to new entrants as of July 1, 2006. The average age of active participants increased from 49.85 to 50.39 and average credited service increased from 13.32 to 14.00 years.

The number of benefit recipients increased 4.6%, from 28,540 to 29,865, and their average age increased from 67.41 to 67.76. There was a 1.0% decrease in the number of vested terminated participants from 6,294 to 6,230. Their average age increased from 50.55 to 50.84.

The overall effect of these participant data changes along with the healthcare experience was an actuarial gain to the System, resulting in a decrease in the Employer/State contribution rate equal to 2.35% of total payroll. Most of this gain is due to spreading the unfunded contribution over a larger payroll base, a lower than expected PRPA increase and a smaller than expected growth in the per capita claims cost rates for healthcare. As a result, expected benefit payments for FY13 and future years are reduced. The gain/loss by decrement on the accrued liability is shown in the summary on page 11.



Executive Summary (cont'd)

(5) Effect of the Two-Year Delay in the Contribution Rate

As of June 30, 2012, the actuarially calculated rate was 39.85% for FY15 Employer/State contributions. Since Employer/State contribution rates are determined two years prior to the fiscal year, the June 30, 2010 employer rate of 32.83% was contributed during FY13. The difference between the two calculated rates, 39.85% and 32.83%, or an actuarial contribution rate of 7.02% less than the actuarial rate, created a contribution deficit to the System. This deficit increased the Employer/State contribution rate by 0.79%.

(6) Actuarial Projections

At the Fall 1991 Board Meetings, the PERS Board approved the use of an enhanced actuarial projection system. The same actuarial cost method is used, but the enhanced system projects the associated liabilities 30 years into the future. By also projecting plan assets, this report in effect produces an actuarial valuation for each of the next 30 years. Section 4, Actuarial Funding Projections, contains the results of this analysis.

This type of information can be especially useful to multi-tiered systems, such as PERS. No new DB plan entrants are anticipated. The total active population is expected to grow at 1% per year and all future demographic assumptions are expected to be exactly realized.

(7) Changes in Methods Since the Prior Valuation

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

(8) Changes in Assumptions Since the Prior Valuation

There have been no changes in actuarial assumptions since the prior valuation.

(9) Changes in Benefit Provisions Since the Prior Valuation

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



Comparative Summary of Key Actuarial Valuation Results

Employer/State Contribution Rates for Pension for Fiscal Year:	2015	2016
(a) Normal Cost Rate Net of Member Contributions	2.57%	2.38%
(b) Past Service Rate	20.67%	<u>22.46%</u>
(c) Total Employer/State Contribution Rate $(a) + (b)$	23.24%	24.84%
Employer/State Contribution Rates for Postemployment Healthcare for Fiscal Year:	2015	2016
(a) Normal Cost Rate	4.25%	3.73%
(b) Past Service Rate	12.36%	<u>11.71%</u>
(c) Total Employer/State Contribution Rate $(a) + (b)$	16.61%	15.44%
Total Employer/State Contribution Rates for Fiscal Year:	2015	2016
(a) Normal Cost Rate Net of Member Contributions	6.82%	6.11%
(b) Past Service Rate	33.03%	<u>34.17%</u>
(c) Total Employer/State Contribution Rate $(a) + (b)$	39.85%	40.28%
(d) Board Adopted Total Employer/State Contribution Rate	39.85%	TBD*
(e) Defined Contribution Retirement (DCR) Rate Paid by Employers	<u>4.18%</u>	TBD*
(f) Board Adopted Total Rate, Including DCR Rate Paid by Employers $(d) + (e)$	44.03%	TBD*

^{*}The contribution rates for fiscal year ending June 30, 2016 are to be determined using new methodology in accordance with 2014 legislation under HB 385 and SB 119 which change the amortization methodology to a closed 25-year period as a level percentage of pay and eliminate the time lag on the contribution rate calculation.

Contribution rates are based on total salaries for DB and DC plan members, combined.

The rates shown above are for funding purposes which differ from the Annual Required Contribution for GASB Nos. 25 and 43 reporting purposes. Under GASB No. 43, postemployment healthcare liabilities are gross of the retiree drug subsidy and are calculated with a discount rate for a partially funded plan. Under both GASB Nos. 25 and 43, the amortization of the unfunded liabilities is calculated as a level dollar amount.

Contribution rates are based on Employer contribution rates as limited by State statute, and include the additional State contribution required under SB 125.



Comparative Summary of Key Actuarial Valuation Results

Summary of Actuarial Gain/(Loss) and Other Changes During the Year

The following table summarizes the sources of change in the total Employer/State contribution rate based on DB and DCR payroll combined:

			<u>Pension</u>	<u>Healthcare</u>	<u>Total</u>
1.	Las	st year's total Employer/State contribution rate	23.24%	16.61%	39.85%
2.	Cha	ange due to:			
	a.	Effect of two-year delay in the contribution rate	0.78%	0.01%	0.79%
	b.	Investment experience	1.43%	0.33%	1.76%
	c.	Salary increases	0.23%	N/A	0.23%
	d.	Demographic and medical experience ¹	(0.84)%	(1.51)%	(2.35)%
	e.	Total change $(a + b + c + d)$	1.60%	(1.17)%	0.43%
3.	Tot	tal Employer/State contribution rate this year $(1) + (2e)$	24.84%	15.44%	40.28%

The following table shows the gain/(loss) on total accrued liability (in thousands):

		<u>Pension</u>	<u> </u>	<u>-lealthcare</u>	<u>Total</u>	% of Total Expected Accrued <u>Liability</u>
-	Retirement Experience	\$ (14,528)	\$	(34,739)	\$ (49,267)	(0.2%)
-	Termination Experience	(23,716)		775	(22,941)	(0.1%)
-	Active Mortality Experience	8,575		3,859	12,434	0.1%
-	Inactive Mortality Experience	(15,978)		(4,004)	(19,982)	(0.1%)
-	Disability Experience	15		(2,460)	(2,445)	nil
-	Rehires	(23,427)		(11,840)	(35,267)	(0.2%)
-	Other Demographic Experience	(19,679)		(3,656)	(23,335)	(0.1%)
-	Salary Increases	(10,070)		N/A	(10,070)	(0.1%)
-	Alaska COLA	5,865		N/A	5,865	nil
-	PRPA Other Than Expected	36,714		N/A	36,714	0.2%
-	Medical Claims Costs	N/A		215,974	215,974	1.1%
_	Total	\$ (56,229)	\$	163,909	\$ 107,680	0.5%

¹ Includes changes in future healthcare claims costs.



-

Section 1

Actuarial Funding Results

Section 1.1

Actuarial Liabilities and Normal Cost - Peace Officer/Firefighter (\$'s in 000's)

As of June 30, 2013		esent Value Projected Benefits	Accrued (Past Service) Liability		
Active Members	Members				
Retirement Benefits	\$	803,552	\$	663,671	
Termination Benefits		32,901		15,971	
Disability Benefits		7,058		(514)	
Death Benefits		11,022		5,901	
Return of Contributions		5,728		(6,875)	
Medical and Prescription Drug Benefits		388,263		327,372	
Medicare Part D Subsidy		(17,596)		(14,899)	
Indebtedness		(6,784)		(6,784)	
Subtotal	\$	1,224,144	\$	983,843	
Inactive Members					
Not Vested	\$	2,273	\$	2,273	
Vested Terminations					
- Retirement Benefits		22,136		22,136	
- Medical and Prescription Drug Benefits		29,871		29,871	
- Medicare Part D Subsidy		(1,442)		(1,442)	
- Indebtedness		(472)		(472)	
Retirees & Beneficiaries					
- Retirement Benefits		1,155,929		1,155,929	
- Medical and Prescription Drug Benefits		540,730		540,730	
- Medicare Part D Subsidy		(35,010)		(35,010)	
Subtotal	\$	1,714,015	\$	1,714,015	
Total	\$	2,938,159	\$	2,697,858	
Total Pension	\$	2,033,343	\$	1,851,236	
Total Medical, Net of Part D Subsidy	\$	904,816	\$	846,622	
Total Medical, Gross of Part D Subsidy	\$	958,864	\$	897,973	

Actuarial Liabilities and Normal Cost – Peace Officer/Firefighter (cont'd) (\$'s in 000's)

As of June 30, 2013	Prese of Pr June 30, 2013 Be		Accrued (Past Service) Liability		
By Tier					
Tier 1					
- Pension	\$	1,077,136	\$	1,070,477	
- Medical, Net of Part D Subsidy		464,515		461,277	
Tier 2					
- Pension		490,242		450,627	
- Medical, Net of Part D Subsidy		203,542		193,697	
Tier 3					
- Pension		465,965		330,132	
- Medical, Net of Part D Subsidy		236,759		191,648	
Total	\$	2,938,159	\$	2,697,858	
As of June 30, 2013				Normal Cost	
Active Members					
Retirement Benefits			\$	19,956	
Termination Benefits			*	2,397	
Disability Benefits				1,094	
Death Benefits				751	
Return of Contributions				1,803	
Medical and Prescription Drug Benefits				10,083	
Medicare Part D Subsidy				(449)	
Subtotal			\$	35,635	
Total			\$	35,635	
Total Pension			\$	26,001	
Total Medical, Net of Part D Subsidy			\$	9,634	
Total Medical, Gross of Part D Subsidy			\$	10,083	
By Tier					
Tier 1					
- Pension			\$	1,848	
- Medical, Net of Part D Subsidy				941	
Tier 2					
- Pension				7,435	
- Medical, Net of Part D Subsidy				2,041	
Tier 3					
- Pension				16,718	
- Medical, Net of Part D Subsidy				6,652	
Total			\$	35,635	

Actuarial Liabilities and Normal Cost – Others (\$'s in 000's)

As of June 30, 2013	Present Value of Projected Benefits	Accrued (Past Service) Liability
Active Members		<u> </u>
Retirement Benefits	\$ 4,198,775	\$ 3,662,916
Termination Benefits	327,838	183,751
Disability Benefits	14,963	1,443
Death Benefits	67,886	48,408
Return of Contributions	48,381	(71,411)
Medical and Prescription Drug Benefits	3,006,564	2,587,948
Medicare Part D Subsidy	(175,007)	(151,923)
Indebtedness	(64,851)	(64,851)
Subtotal	\$ 7,424,549	\$ 6,196,281
Inactive Members		
Not Vested	\$ 71,139	\$ 71,139
Vested Terminations		
- Retirement Benefits	470,829	470,829
- Medical and Prescription Drug Benefits	893,529	893,529
- Medicare Part D Subsidy	(43,892)	(43,892)
- Indebtedness	(12,243)	(12,243)
Retirees & Beneficiaries		
- Retirement Benefits	5,804,664	5,804,664
- Medical and Prescription Drug Benefits	4,215,681	4,215,681
- Medicare Part D Subsidy	(301,087)	(301,087)
Subtotal	\$ 11,098,620	\$ 11,098,620
Total	\$ 18,523,169	\$ 17,294,901
Total Pension	\$ 10,927,381	\$ 10,094,645
Total Medical, Net of Part D Subsidy	\$ 7,595,788	\$ 7,200,256
Total Medical, Gross of Part D Subsidy	\$ 8,115,774	\$ 7,697,158

Actuarial Liabilities and Normal Cost – Others (cont'd) (\$'s in 000's)

Tier 1 - Pension \$ 6,245,126 \$ 6,135,226 - Medical, Net of Part D Subsidy 4,166,143 4,076,091 Tier 2 - Pension 2,667,234 2,440,319 - Medical, Net of Part D Subsidy 1,868,567 1,777,207 Tier 3 - Pension 2,015,021 1,519,097 - Medical, Net of Part D Subsidy 1,561,078 1,346,958 Total \$ 18,523,169 \$ 17,294,901 As of June 30, 2013 Normal Cost Retirement Benefits \$ 91,391 Termination Benefits 2,074 Disability Benefits 2,074 Disability Benefits 2,074 Death Benefits 3,155 Return of Contributions 17,861 Medical and Prescription Drug Benefits 17,861 Medical Part D Subsidy \$ 211,526 Total \$ 211,526 Total Medical, Net of Part D Subsidy \$ 76,698 Total Medical, Net of Part D Subsidy \$ 9,464 Total Medical, Net of Part D Subsidy \$ 26,480 Tier 1 Pension	As of June 30, 2013	Present Value of Projected Benefits	Accrued (Past Service) Liability	
- Pension	By Tier			
Medical, Net of Part D Subsidy 1,166,143 4,076,091 Tier 2 Pension 2,667,234 2,440,319 1,868,567 1,777,207 Tier 3 2,015,021 1,519,097 Medical, Net of Part D Subsidy 1,561,078 1,346,958 1,346,958 Total	Tier 1			
Tier 2	- Pension	\$ 6,245,126	\$	6,135,229
Pension	- Medical, Net of Part D Subsidy	4,166,143		4,076,091
Femalical Net of Part D Subsidy 1,868,567 1,777,207 Tier 3 2,015,021 1,519,097 1,561,078 1,361,078 1,346,958 Total 1,561,078 1,346,958 Total 1,561,078 1,294,901 1,2	Tier 2			
Tier 3 - Pension 2,015,021 1,519,097 - Medical, Net of Part D Subsidy 1,561,078 1,346,958 Total 18,523,169 17,294,901 As of June 30, 2013 Normal Cost Active Members 8 19,391 Retirement Benefits 90,344 20,344 Disability Benefits 20,074 20,344 Disability Benefits 2,074 3,155 3,155 Return of Contributions 17,861 4,404 3,155 <	- Pension	2,667,234		2,440,319
- Pension	- Medical, Net of Part D Subsidy	1,868,567		1,777,207
Nedical, Net of Part D Subsidy 1,561,078 1,346,958 Total \$ 18,523,169 \$ 17,294,901 \$ 18,523,169 \$ 17,294,901 \$ 18,501,078 \$ 18,503,169 \$ 17,294,901 \$ 18,501,000 \$ 18,500	Tier 3			
Normal Normal Cost	- Pension	2,015,021		1,519,097
As of June 30, 2013 Normal Cost Active Members \$ 91,391 Retirement Benefits \$ 91,391 Termination Benefits 20,346 Disability Benefits 2,074 Death Benefits 3,155 Return of Contributions 17,861 Medical and Prescription Drug Benefits 81,103 Medicare Part D Subsidy (4,404) Subtotal \$ 211,526 Total \$ 211,526 Total Pension \$ 134,827 Total Medical, Net of Part D Subsidy \$ 76,695 Total Medical, Net of Part D Subsidy \$ 26,480 Total Medical, Net of Part D Subsidy 33,894 Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 37,894 Tier 3 - Pension 37,894 - Medical, Net of Part D Subsidy 17,385 Tier 3 - Pension 37,894 - Pension	- Medical, Net of Part D Subsidy	1,561,078		1,346,958
As of June 30, 2013 Cost Active Members Retirement Benefits 91,391 Retirement Benefits 20,346 Disability Benefits 2,074 Death Benefits 3,155 Return of Contributions 17,861 Medical and Prescription Drug Benefits 81,103 Medicare Part D Subsidy (4,404 Subtotal \$ 211,526 Total Pension \$ 134,827 Total Medical, Net of Part D Subsidy \$ 76,695 Total Medical, Gross of Part D Subsidy \$ 81,103 By Tier Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,894 - Medical, Net of Part D Subsidy 17,389 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946	-	\$ 18,523,169	\$	17,294,901
Active Members Retirement Benefits \$ 91,391 Termination Benefits 20,346 Disability Benefits 2,074 Death Benefits 3,155 Return of Contributions 17,861 Medical and Prescription Drug Benefits 81,103 Medicare Part D Subsidy (4,404 Subtotal \$ 211,526 Total \$ 211,526 Total Pension \$ 76,695 Total Medical, Net of Part D Subsidy \$ 81,103 By Tier Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 Pension 70,456 - Medical, Net of Part D Subsidy 17,389 Tier 3 Pension 70,456 - Medical, Net of Part D Subsidy 35,946	As of June 30, 2013			
Retirement Benefits \$ 91,391 Termination Benefits 20,344 Disability Benefits 2,074 Death Benefits 3,155 Return of Contributions 17,861 Medical and Prescription Drug Benefits 81,103 Medicare Part D Subsidy (4,404 Subtotal \$ 211,526 Total Pension \$ 134,827 Total Medical, Net of Part D Subsidy \$ 76,695 Total Medical, Gross of Part D Subsidy \$ 81,103 By Tier Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,385 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946				
Termination Benefits 20,346 Disability Benefits 2,077 Death Benefits 3,155 Return of Contributions 17,861 Medical and Prescription Drug Benefits 81,103 Medicare Part D Subsidy (4,404 Subtotal \$211,526 Total \$211,526 Total \$211,526 Total Pension \$134,827 Total Medical, Net of Part D Subsidy \$76,695 Total Medical, Net of Part D Subsidy \$81,103 By Tier Tier 1 - Pension \$26,486 - Medical, Net of Part D Subsidy 37,891 - Medical, Net of Part D Subsidy 17,385 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946			\$	91 391
Disability Benefits			Ψ	
Death Benefits 3,155 Return of Contributions 17,861 Medical and Prescription Drug Benefits 81,103 Medicare Part D Subsidy (4,404 Subtotal \$ 211,526 Total \$ 211,526 Total Pension \$ 134,827 Total Medical, Net of Part D Subsidy \$ 76,695 Total Medical, Gross of Part D Subsidy \$ 81,103 By Tier Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946				
Return of Contributions 17,861 Medical and Prescription Drug Benefits 81,103 Medicare Part D Subsidy \$ 211,526 Total \$ 211,526 Total Pension \$ 134,827 Total Medical, Net of Part D Subsidy \$ 76,699 Total Medical, Gross of Part D Subsidy \$ 81,103 By Tier Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 70,456 - Medical, Net of Part D Subsidy 35,946	•			
Medical and Prescription Drug Benefits 81,103 Medicare Part D Subsidy (4,404 Subtotal \$ 211,526 Total \$ 211,526 Total Pension \$ 134,827 Total Medical, Net of Part D Subsidy \$ 76,698 Total Medical, Gross of Part D Subsidy \$ 81,103 By Tier Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 Pension 70,456 - Medical, Net of Part D Subsidy 35,946				
Medicare Part D Subsidy (4,404 Subtotal \$ 211,526 Total \$ 211,526 Total Pension \$ 134,827 Total Medical, Net of Part D Subsidy \$ 76,695 Total Medical, Gross of Part D Subsidy \$ 81,103 By Tier Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,385 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946				
Subtotal \$ 211,526 Total \$ 211,526 Total Pension \$ 134,827 Total Medical, Net of Part D Subsidy \$ 76,698 Total Medical, Gross of Part D Subsidy \$ 81,103 By Tier Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,894 - Medical, Net of Part D Subsidy 17,385 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946				
Total			\$	
Total Pension \$ 134,827 Total Medical, Net of Part D Subsidy \$ 76,699 Total Medical, Gross of Part D Subsidy \$ 81,103 By Tier Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946	Subtotui		Ψ	211,020
Total Medical, Net of Part D Subsidy \$ 76,699 Total Medical, Gross of Part D Subsidy \$ 81,103 By Tier Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946	Total		\$	211,526
Total Medical, Gross of Part D Subsidy \$ 81,103 By Tier Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946	Total Pension		\$	134,827
Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946	Total Medical, Net of Part D Subsidy		\$	76,699
Tier 1 - Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946	Total Medical, Gross of Part D Subsidy		\$	81,103
- Pension \$ 26,480 - Medical, Net of Part D Subsidy 23,364 Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946	By Tier			
- Medical, Net of Part D Subsidy Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946	Tier 1			
Tier 2 - Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946	- Pension		\$	26,480
- Pension 37,891 - Medical, Net of Part D Subsidy 17,389 Tier 3 70,456 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946	- Medical, Net of Part D Subsidy			23,364
- Medical, Net of Part D Subsidy Tier 3 - Pension - Medical, Net of Part D Subsidy 70,456 - Medical, Net of Part D Subsidy 35,946	Tier 2			
- Medical, Net of Part D Subsidy Tier 3 - Pension - Medical, Net of Part D Subsidy 70,456 - Medical, Net of Part D Subsidy 35,946	- Pension			37,891
Tier 3 - Pension 70,456 - Medical, Net of Part D Subsidy 35,946	- Medical, Net of Part D Subsidy			17,389
- Medical, Net of Part D Subsidy 35,946	•			·
- Medical, Net of Part D Subsidy 35,946				70,456
<u> </u>	- Medical, Net of Part D Subsidy			35,946
	Total		\$	211,526

Actuarial Liabilities and Normal Cost – All Members (\$'s in 000's)

As of June 30, 2013	Present Value of Projected Benefits	(Pa	Accrued st Service) Liability
Active Members			
Retirement Benefits	\$ 5,002,327	\$	4,326,587
Termination Benefits	360,739		199,722
Disability Benefits	22,021		929
Death Benefits	78,908		54,309
Return of Contributions	54,109		(78,286)
Medical and Prescription Drug Benefits	3,394,827		2,915,320
Medicare Part D Subsidy	(192,603)		(166,822)
Indebtedness	(71,635)		(71,635)
Subtotal	\$ 8,648,693	\$	7,180,124
Inactive Members			
Not Vested	\$ 73,412	\$	73,412
Vested Terminations			
- Retirement Benefits	492,965		492,965
- Medical and Prescription Drug Benefits	923,400		923,400
- Medicare Part D Subsidy	(45,334)		(45,334)
- Indebtedness	(12,715)		(12,715)
Retirees & Beneficiaries			
- Retirement Benefits	6,960,593		6,960,593
- Medical and Prescription Drug Benefits	4,756,411		4,756,411
- Medicare Part D Subsidy	(336,097)		(336,097)
Subtotal	\$ 12,812,635	\$	12,812,635
Total	\$ 21,461,328	\$	19,992,759
Total Pension	\$ 12,960,724	\$	11,945,881
Total Medical, Net of Part D Subsidy	\$ 8,500,604	\$	8,046,878
Total Medical, Gross of Part D Subsidy	\$ 9,074,638	\$	8,595,131

Actuarial Liabilities and Normal Cost – All Members (cont'd) (\$'s in 000's)

As of June 30, 2013	Present Value of Projected Benefits	Accrued (Past Service) Liability		
By Tier				
Tier 1				
- Pension	\$ 7,322,262	\$	7,205,706	
- Medical, Net of Part D Subsidy	4,630,658		4,537,368	
Tier 2				
- Pension	3,157,476		2,890,946	
- Medical, Net of Part D Subsidy	2,072,109		1,970,904	
Tier 3				
- Pension	2,480,986		1,849,229	
- Medical, Net of Part D Subsidy	 1,797,837		1,538,606	
Total	\$ 21,461,328	\$	19,992,759	
As of June 30, 2013			Normal Cost	
Active Members				
Retirement Benefits		\$	111,347	
Termination Benefits		•	22,743	
Disability Benefits			3,168	
Death Benefits			3,906	
Return of Contributions			19,664	
Medical and Prescription Drug Benefits			91,186	
Medicare Part D Subsidy			(4,853	
Subtotal		\$	247,161	
Total		\$	247,161	
Total Pension		\$	160,828	
Total Medical, Net of Part D Subsidy		\$	86,333	
Total Medical, Gross of Part D Subsidy		\$	91,186	
By Tier				
Tier 1				
- Pension		\$	28,328	
- Medical, Net of Part D Subsidy		*	24,305	
Tier 2			,500	
- Pension			45,326	
- Medical, Net of Part D Subsidy			19,430	
Tier 3			. 5, 150	
- Pension			87,174	
- Medical, Net of Part D Subsidy			42,598	
Total		\$	247,161	

Section 1.2

Actuarial Contributions - FY16 - Peace Officer/Firefighter
(\$'s in 000's)

Normal Cost Rate	Pension	Healthcare	Total
(1) Total Normal Cost	\$ 26,	001 \$ 9,63	4 \$ 35,635
(2) DB Member Salaries Projected for FY14	205,	747 205,74	7 205,747
(3) DCR Member Salaries Projected for FY14	80,	152 80,15	2 80,152
(4) Total Salaries Projected for FY14	285,	899 285,899	9 285,899
(5) Normal Cost Rate for Peace Officer/Firefighter			
a. Based on DB Member Salaries, $(1) \div (2)$	12.6	4.68%	6 17.32%
b. Based on Total Salaries, $(1) \div (4)$	9.0	9% 3.37%	6 12.46%
(6) Member Contribution Rate			
(Peace Officer/Firefighter) ¹	5.4	2% 0.00%	6 5.42%
(7) Employer Normal Cost Rate For Peace			
Officer/Firefighter, $(5b) - (6)$	3.6	3.37%	7.04%
Past Service Rate			
(1) Accrued Liability	\$ 1,851,2	236 \$ 846,622	2 \$ 2,697,858
(2) Valuation Assets ²	1,008,9	<u>961</u> <u>594,64</u>	1,603,602
(3) Unfunded Liability, (1) – (2)	\$ 842,	275 \$ 251,98	1 \$ 1,094,256
(4) Funded Ratio, (2) ÷ (1)	54	.5% 70.2%	6 59.4%
(5) Past Service Cost Amortization Payment ³	80,0	654 28,18	0 108,834
(6) Total Salaries Projected for FY14	285,	899 285,899	9 285,899
(7) Past Service Rate, (5) ÷ (6)	28.2	9.86%	6 38.07%
Total Employer/State Contribution Rate	31.8	88% 13.23%	45.11%
Normal Cost Rate by Tier (Total Employer and M	ember) ⁴		
Tier 1	14.2	7.23%	6 21.43%
Tier 2	12.2	28% 3.37%	6 15.65%
Tier 3	12.6	5.03%	6 17.68%
Maturity Ratio	63.	7% 63.1%	63.5%

⁴ Rate determined considering the pay for members of the plan in this tier. DCR payroll is excluded from these calculations.



¹ Assumes no member contributions from members in the DCR plan and 7.50% from Tiers 1, 2 and 3 in Peace Officer/Firefighter.

² Allocated between Peace Officer/Firefighter and Others in proportion to accrued liability.

³ Amortized on a level dollar basis.

Actuarial Contributions - FY16 - Peace Officer/Firefighter (cont'd) (\$'s in 000's)

Schedule of Past Service Cost Amortizations

Pension

	Amortizati		.0.0.	Balaı	nces			
	Date Created	Years Left		Initial		tstanding	Beg	inning-of-Year Payment
Initial Unfunded Liability ¹	6/30/2002	14	\$	137,169	\$	138,633	\$	15,570
FY03 Loss ¹	6/30/2003	15		9,777		9,988		1,080
FY04 Loss ¹	6/30/2004	16		25,832		26,559		2,778
FY05 Loss ¹	6/30/2005	17		48,970		50,485		5,125
Change in								
Assumptions/Methods ¹	6/30/2006	18		65,436		67,415		6,660
FY06 Gain ¹	6/30/2006	18		(19,153)		(19,731)		(1,949)
FY07 Loss	6/30/2007	19		22,584		23,219		2,239
FY08 Gain	6/30/2008	20		(3,036)		(3,107)		(293)
FY09 Loss	6/30/2009	21		249,836		253,876		23,468
Change in Assumptions	6/30/2010	22		46,836		47,110		4,276
FY10 Gain	6/30/2010	22		(8,620)		(8,670)		(787)
FY11 Loss	6/30/2011	23		40,553		40,428		3,609
FY12 Loss	6/30/2012	24		114,501		112,935		9,932
FY13 Loss	6/30/2013	25		103,135		103,135		8,946
Total					\$	842,275	\$	80,654

Healthcare

	Amortizati	on Period	Balances				
	Date Created	Years Left	Initial	Ou	tstanding	_	ning-of-Year ayment
Initial Unfunded Liability ¹	6/30/2002	14	\$ 175,533	\$	177,406	\$	19,925
FY03 Loss ¹	6/30/2003	15	12,512		12,782		1,383
FY04 Loss ¹	6/30/2004	16	33,056		33,989		3,556
FY05 Loss ¹	6/30/2005	17	62,666		64,607		6,558
Change in							
Assumptions/Methods ¹	6/30/2006	18	83,737		86,269		8,523
FY06 Gain ¹	6/30/2006	18	(24,510)		(25,250)		(2,495)
FY07 Gain	6/30/2007	19	(86,375)		(88,804)		(8,562)
Change in Assumptions	6/30/2008	20	44,982		46,034		4,341
FY08 Gain	6/30/2008	20	(27,452)		(28,094)		(2,649)
FY09 Gain	6/30/2009	21	(23,322)		(23,700)		(2,191)
Change in Assumptions	6/30/2010	22	29,559		29,731		2,699
FY10 Loss	6/30/2010	22	3,008		3,026		275
FY11 Gain	6/30/2011	23	(17,392)		(17,338)		(1,548)
Change in Assumptions	6/30/2012	24	27,643		27,265		2,398
FY12 Gain	6/30/2012	24	(40,719)		(40,162)		(3,532)
FY13 Gain	6/30/2013	25	(5,780)		(5,780)		(501)

¹ The pension and healthcare split was done using a ratio of unfunded accrued liability as of June 30, 2006.



Total

251,981 \$

28,180

Actuarial Contributions - FY16 - Peace Officer/Firefighter (cont'd) (\$'s in 000's)

Schedule of Past Service Cost Amortizations

Total

	Amortizati	on Period	Balaı	nces		
	Date Created	Years Left	Initial	Oı	utstanding	nning-of-Year Payment
Initial Unfunded						
Liability	6/30/2002	14	\$ 312,702	\$	316,039	\$ 35,495
FY03 Loss	6/30/2003	15	22,289		22,770	2,463
FY04 Loss	6/30/2004	16	58,888		60,548	6,334
FY05 Loss	6/30/2005	17	111,636		115,092	11,683
Change in Assumptions/ Methods	6/30/2006	18	149,173		153,684	15,183
FY06 Gain	6/30/2006	18	(43,663)		(44,981)	(4,444)
FY07 Gain	6/30/2007	19	(63,791)		(65,585)	(6,323)
Change in Assumptions	6/30/2008	20	44,982		46,034	4,341
FY08 Gain	6/30/2008	20	(30,488)		(31,201)	(2,942)
FY09 Loss	6/30/2009	21	226,514		230,176	21,277
Change in Assumptions	6/30/2010	22	76,395		76,841	6,975
FY10 Gain	6/30/2010	22	(5,612)		(5,644)	(512)
FY11 Loss Change in	6/30/2011	23	23,161		23,090	2,061
Assumptions	6/30/2012	24	27,643		27,265	2,398
FY12 Loss	6/30/2012	24	73,782		72,773	6,400
FY13 Loss	6/30/2013	25	97,355		97,355	8,445
Total				\$	1,094,256	\$ 108,834

The amortization factor for 25 years is 11.528758. The weighted average amortization factor is 10.054358. The amortization method is on a level dollar basis.

The equivalent single amortization period is 18 years.



Actuarial Contributions - FY16 - Others (\$'s in 000's)

Normal Cost Rate	Pension	Healthcare	Total
(1) Total Normal Cost	\$ 134,827	\$ 76,699	\$ 211,526
(2) DB Member Salaries Projected for FY14	1,308,287	1,308,287	1,308,287
(3) DCR Member Salaries Projected for FY14	722,493	722,493	722,493
(4) Total Salaries Projected for FY14	2,030,780	2,030,780	2,030,780
(5) Normal Cost Rate for Others			
a. Based on DB Member Salaries, $(1) \div (2)$	10.31%	5.86%	16.17%
b. Based on Total Salaries, $(1) \div (4)$	6.64%	3.78%	10.42%
(6) Member Contribution Rate (Others) ¹	4.44%	0.00%	4.44%
(7) Employer/State Normal Cost Rate For			
Others, $(5b) - (6)$	2.20%	3.78%	5.98%
Past Service Rate			
(1) Accrued Liability	\$ 10,094,645	\$ 7,200,256	\$ 17,294,901
(2) Valuation Assets ²	5,501,788	5,057,236	10,559,024
(3) Unfunded Liability, (1) – (2)	\$ 4,592,857	\$ 2,143,020	\$ 6,735,877
(4) Funded Ratio, $(2) \div (1)$	54.5%	70.2%	61.1%
(5) Past Service Cost Amortization Payment ³	439,619	243,147	682,766
(6) Total Salaries Projected for FY14	2,030,780	2,030,780	2,030,780
(7) Past Service Rate, (5) ÷ (6)	21.65%	11.97%	33.62%
Total Employer/State Contribution Rate	23.85%	15.75%	39.60%
Normal Cost Rate by Tier (Total Employer and	l Member) ⁴		
Tier 1	11.55%	10.19%	21.74%
Tier 2	9.79%	4.49%	14.28%
Tier 3	10.18%	5.19%	15.37%
Maturity Ratio	62.7%	66.2%	64.2%

⁴ Rate determined considering the pay for members of the plan in this tier. DCR payroll is excluded from these calculations.



¹ Assumes no member contributions from members in the DCR plan and 6.75% from Tiers 1, 2 and 3 in Others members.

² Allocated between Peace Officer/Firefighter and Others in proportion to accrued liability.

³ Amortized on a level dollar basis.

Actuarial Contributions - FY16 - Others (cont'd) (\$'s in 000's)

Schedule of Past Service Cost Amortizations

Pension

		1 61	13101	•				
	Amortizati	on Period		Balaı	nces			
	Date Created	Years Left		Initial	Oı	utstanding	Beg	inning-of-Year Payment
Initial Unfunded Liability ¹	6/30/2002	14	\$	734,495	\$	742,328	\$	83,372
FY03 Loss ¹	6/30/2003	15		52,354		53,485		5,786
FY04 Loss ¹	6/30/2004	16		138,320		142,223		14,878
FY05 Loss ¹	6/30/2005	17		262,218		270,328		27,440
Change in								
Assumptions/Methods ¹	6/30/2006	18		350,386		360,980		35,665
FY06 Gain ¹	6/30/2006	18		(102,558)		(105,661)		(10,440)
FY07 Loss	6/30/2007	19		120,930		124,334		11,987
FY08 Loss	6/30/2008	20		7,896		8,081		762
FY09 Loss	6/30/2009	21		1,389,049		1,411,512		130,476
Change in Assumptions	6/30/2010	22		184,848		185,930		16,877
FY10 Loss	6/30/2010	22		51,817		52,119		4,731
FY11 Loss	6/30/2011	23		197,121		196,512		17,545
FY12 Loss	6/30/2012	24		616,150		607,722		53,444
FY13 Loss	6/30/2013	25		542,964		542,964		47,096
Total					\$	4,592,857	\$	439,619

Healthcare

	Amortizati	on Period	Balaı	nces			
	Date Created	Years Left	Initial	Οι	ıtstanding	Beg	inning-of-Year Payment
Initial Unfunded Liability ¹	6/30/2002	14	\$ 1,596,753	\$	1,613,784	\$	181,247
FY03 Loss ¹	6/30/2003	15	113,814		116,273		12,578
FY04 Loss ¹	6/30/2004	16	300,702		309,182		32,343
FY05 Loss ¹	6/30/2005	17	570,049		587,684		59,655
Change in							
Assumptions/Methods ¹	6/30/2006	18	761,720		784,752		77,532
FY06 Gain ¹	6/30/2006	18	(222,957)		(229,699)		(22,694)
FY07 Gain	6/30/2007	19	(785,717)		(807,825)		(77,886)
Change in Assumptions	6/30/2008	20	364,085		372,580		35,137
FY08 Gain	6/30/2008	20	(238,309)		(243,871)		(22,999)
FY09 Gain	6/30/2009	21	(148,044)		(150,437)		(13,906)
Change in Assumptions	6/30/2010	22	356,581		358,669		32,556
FY10 Gain	6/30/2010	22	(60,664)		(61,020)		(5,539)
FY11 Gain	6/30/2011	23	(274,356)		(273,509)		(24,419)
Change in Assumptions	6/30/2012	24	198,960		196,239		17,258
FY12 Gain	6/30/2012	24	(368,627)		(363,584)		(31,974)
FY13 Gain	6/30/2013	25	(66,198)		(66,198)		(5,742)
Total				\$	2,143,020	\$	243,147

¹ The pension and healthcare split was done using a ratio of unfunded accrued liability as of June 30, 2006.



State of Alaska Public Employees' Retirement System As of June 30, 2013

Actuarial Contributions - FY16 - Others (cont'd) (\$'s in 000's)

Schedule of Past Service Cost Amortizations

Total

	Amortizati	on Dorind	IULO					
	Amortizati	on Period		Bala	ince	2 S		
	Date Created	Years Left		Initial	(Outstanding	Beg	inning-of-Year Payment
Initial Unfunded								
Liability	6/30/2002	14	\$	2,331,248	\$	2,356,112	\$	264,619
FY03 Loss	6/30/2003	15		166,168		169,758		18,364
FY04 Loss	6/30/2004	16		439,022		451,405		47,221
FY05 Loss	6/30/2005	17		832,267		858,012		87,095
Change in Assumptions/ Methods	6/30/2006	18		1,112,106		1,145,732		113,197
FY06 Gain								•
	6/30/2006	18		(325,515)		(335,360)		(33,134)
FY07 Gain	6/30/2007	19		(664,787)		(683,491)		(65,899)
Change in Assumptions	6/30/2008	20		364,085		372,580		35,137
FY08 Gain	6/30/2008	20		(230,413)		(235,790)		(22,237)
FY09 Loss	6/30/2009	21		1,241,005		1,261,075		116,570
Change in Assumptions	6/30/2010	22		541,429		544,599		49,433
FY10 Gain	6/30/2010	22		(8,847)		(8,901)		(808)
FY11 Gain	6/30/2011	23		(77,235)		(76,997)		(6,874)
Change in Assumptions	6/30/2012	24		198,960		196,239		17,258
FY12 Loss	6/30/2012			•				
		24		247,523		244,138		21,470
FY13 Loss	6/30/2013	25		476,766		476,766		41,354
Total					\$	6,735,877	\$	682,766

The amortization factor for 25 years is 11.528758. The weighted average amortization factor is 9.865572. The amortization method is on a level dollar basis.

The equivalent single amortization period is 17 years.



Actuarial Contributions - FY16 - All Members (\$'s in 000's)

Normal Cost Rate	Pension	Healthcare	Total
(1) Total Normal Cost	\$ 160,828	\$ 86,333	\$ 247,161
(2) DB Member Salaries Projected for FY14	1,514,034	1,514,034	1,514,034
(3) DCR Member Salaries Projected for FY14	802,645	802,645	802,645
(4) Total Salaries Projected for FY14	2,316,679	2,316,679	2,316,679
(5) Normal Cost Rate for All Members			
a. Based on DB Member Salaries, $(1) \div (2)$	10.62%	5.70%	16.32%
b. Based on Total Salaries, (1) ÷ (4)	6.94%	3.73%	10.67%
(6) Average Member Contribution Rate ¹	4.56%	0.00%	4.56%
(7) Employer Normal Cost Rate For All Members,			
(5b) - (6)	2.38%	3.73%	6.11%
Past Service Rate			
(1) Accrued Liability	\$ 11,945,881	\$ 8,046,878	\$ 19,992,759
(2) Valuation Assets	6,510,749	5,651,877	12,162,626
(3) Total Unfunded Liability, (1) – (2)	\$ 5,435,132	\$ 2,395,001	\$ 7,830,133
(4) Funded Ratio, (2) ÷ (1)	54.5%	70.2%	60.8%
(5) Past Service Cost Amortization Payment ²	520,273	271,327	791,600
(6) Total Salaries Projected for FY14	2,316,679	2,316,679	2,316,679
(7) Past Service Rate, (5) ÷ (6)	22.46%	11.71%	34.17%
Total Employer/State Contribution Rate	24.84%	15.44%	40.28%
Normal Cost Rate by Tier (Total Employer and M	(ember) ³		
Tier 1	11.69%	10.03%	21.72%
Tier 2	10.13%	4.34%	14.47%
Tier 3	10.58%	5.17%	15.75%
Maturity Ratio	62.9%	65.8%	64.1%

³ Rate determined considering the pay for members of the plan in this tier. DCR payroll is excluded from these calculations.



State of Alaska Public Employees' Retirement System As of June 30, 2013

¹ Assumes no member contribution from members in the DCR plan, 7.5% for Peace Officer/Firefighter members and 6.75% for Others members.

² Amortized on a level dollar basis.

Actuarial Contributions - FY16 - All Members (cont'd) (\$'s in 000's)

Schedule of Past Service Cost Amortizations

Pension

		1 61	13101	•				
	Amortizati	on Period		Balaı	nces			
	Date Created	Years Left		Initial	Oı	utstanding	Begi	nning-of-Year Payment
Initial Unfunded Liability ¹	6/30/2002	14	\$	871,664	\$	880,961	\$	98,942
FY03 Loss ¹	6/30/2003	15		62,131		63,473		6,866
FY04 Loss ¹	6/30/2004	16		164,152		168,782		17,656
FY05 Loss ¹	6/30/2005	17		311,188		320,813		32,565
Change in								
Assumptions/Methods ¹	6/30/2006	18		415,822		428,395		42,325
FY06 Gain ¹	6/30/2006	18		(121,711)		(125,392)		(12,389)
FY07 Loss	6/30/2007	19		143,514		147,553		14,226
FY08 Loss	6/30/2008	20		4,860		4,974		469
FY09 Loss	6/30/2009	21		1,638,885		1,665,388		153,944
Change in Assumptions	6/30/2010	22		231,684		233,040		21,153
FY10 Loss	6/30/2010	22		43,197		43,449		3,944
FY11 Loss	6/30/2011	23		237,674		236,940		21,154
FY12 Loss	6/30/2012	24		730,651		720,657		63,376
FY13 Loss	6/30/2013	25		646,099		646,099		56,042
Total					\$	5,435,132	\$	520,273

Healthcare

	Amortizati	on Period	Balances					
	Date Created	Years Left	Initial		Οι	ıtstanding	Beg	inning-of-Year Payment
Initial Unfunded Liability ¹	6/30/2002	14	\$	\$ 1,772,286		\$ 1,791,190		201,172
FY03 Loss ¹	6/30/2003	15		126,326		129,055		13,961
FY04 Loss ¹	6/30/2004	16		333,758		343,171		35,899
FY05 Loss ¹	6/30/2005	17		632,715		652,291		66,213
Change in								
Assumptions/Methods ¹	6/30/2006	18		845,457		871,021		86,055
FY06 Gain ¹	6/30/2006	18		(247,467)		(254,949)		(25,189)
FY07 Gain	6/30/2007	19		(872,092)		(896,629)		(86,448)
Changes in Assumptions	6/30/2008	20		409,067		418,614		39,478
FY08 Gain	6/30/2008	20		(265,761)		(271,965)		(25,648)
FY09 Gain	6/30/2009	21		(171,366)		(174,137)		(16,097)
Change in Assumptions	6/30/2010	22		386,140		388,400		35,255
FY10 Gain	6/30/2010	22		(57,656)		(57,994)		(5,264)
FY11 Gain	6/30/2011	23		(291,748)		(290,847)		(25,967)
Change in Assumptions	6/30/2012	24		226,603		223,504		19,656
FY12 Gain	6/30/2012	24		(409,346)		(403,746)		(35,506)
FY13 Gain	6/30/2013	25		(71,978)		(71,978)		(6,243)
Total					\$	2,395,001	\$	271,327

¹ The pension and healthcare split was done using a ratio of unfunded accrued liability as of June 30, 2006.



State of Alaska Public Employees' Retirement System As of June 30, 2013

Actuarial Contributions - FY16 - All Members (cont'd) (\$'s in 000's)

Schedule of Past Service Cost Amortizations

Total

lotai											
	Amortization Period			Bala							
	Date Created	Years Left		Initial		Outstanding	Be	ginning-of-Year Payment			
Initial Unfunded Liability	6/30/2002	14	\$	2,643,950	\$	2,672,151	\$	300,114			
FY03 Loss	6/30/2003	15		188,457		192,528		20,827			
FY04 Loss	6/30/2004	16		497,910		511,953		53,555			
FY05 Loss	6/30/2005	17		943,903		973,104		98,778			
Change in Assumptions/ Methods	6/30/2006	18		1,261,279		1,299,416		128,380			
FY06 Gain	6/30/2006	18		(369,178)		(380,341)		(37,578)			
FY07 Gain	6/30/2007	19		(728,578)		(749,076)		(72,222)			
Change in Assumptions	6/30/2008	20		409,067		418,614		39,478			
FY08 Gain	6/30/2008	20		(260,901)		(266,991)		(25,179)			
FY09 Loss	6/30/2009	21		1,467,519		1,491,251		137,847			
Change in Assumptions	6/30/2010	22		617,824		621,440		56,408			
FY10 Gain	6/30/2010	22		(14,459)		(14,545)		(1,320)			
FY11 Gain	6/30/2011	23		(54,074)		(53,907)		(4,813)			
Change in Assumptions	6/30/2012	24		226,603		223,504		19,656			
FY12 Loss	6/30/2012	24		321,305		316,911		27,870			
FY13 Loss	6/30/2013	25		574,121		574,121		49,799			
Total					\$	7,830,133	\$	791,600			

The amortization factor for 25 years is 11.528758. The weighted average amortization factor is 9.891527. The amortization method is on a level dollar basis.

The equivalent single amortization period is 17 years.



Section 1.3

Actuarial Gain/(Loss) for FY13 (\$'s in 000's)

			Pension	Healthcare		Total	
(1)	Exp	ected Actuarial Accrued Liability					
	(a)	Accrued Liability, June 30, 2012	\$ 11,428,944	\$	7,863,417	\$	19,292,361
	(b)	Normal Cost for FY13	167,203		95,499		262,702
	(c)	Interest on (a) and (b) at 8.00%	927,692		636,713		1,564,405
	(d)	Benefit Payments for FY13	599,318		370,314		969,632
	(e)	Refund of Contributions for FY13	10,929		0		10,929
	(f)	Interest on (d) and (e) at 8.00% for one-half year	23,940		14,528		38,468
	(g)	Expected Accrued Liability as of June 30, 2013 $(a) + (b) + (c) - (d) - (e) - (f)$	11,889,652		8,210,787	2	20,100,439
(2)	Acti	ual Accrued Liability, June 30, 2013	11,945,881		8,046,878		19,992,759
(3)	Lial	bility Gain/(Loss), $(1)(g) - (2)$	\$ (56,229)	\$	163,909	\$	107,680
(4)	Exp	ected Actuarial Asset Value					
	(a)	Actuarial Asset Value, June 30, 2012	\$ 6,530,421	\$	5,301,609	\$	11,832,030
	(b)	Interest on (a) at 8.00%	522,434		424,129		946,563
	(c)	Employee Contributions for FY13	110,808		635		111,443
	(d)	Employer Contributions for FY13	179,976		229,990		409,966
	(e)	Employer Legislative Relief for FY13	164,087		143,215		307,302
	(f)	Medicare Part D Subsidy	0		10,415		10,415
	(g)	Interest on (c), (d), (e) and (f) at 8.00% for one-half year	17,845		15,075		32,920
	(h)	Benefit Payments for FY13	599,318		370,314		969,632
	(i)	Refund of Contributions for FY13	10,929		0		10,929
	(j)	Interest on (h) and (i) at 8.00% for one-half year	23,940		14,528		38,468
	(k)	Expected Actuarial Asset Value, June 30, 2013 $(a)+(b)+(c)+(d)+(e)+(f)+(g)-(h)-(i)-(j)$	6,891,384		5,740,226		12,631,610
(5)	Acti	uarial Asset Value, June 30, 2013	6,510,749		5,651,877		12,162,626
(6)		uarial Asset Gain/(Loss), (5) – (4)(k)	\$ (380,635)	\$	(88,349)	\$	(468,984)
(7)	Act	uarial Gain/(Loss), (3) + (6)	\$ (436,864)	\$	75,560	\$	(361,304)
(8)	Effe	ect of the 2-Year Delay on Contributions	\$ (209,235)	\$	(3,582)	\$	(212,817)
(9)	FY1	13 Gain/(Loss) to be Amortized, $(7) + (8)$	\$ (646,099)	\$	71,978	\$	(574,121)

Section 1.4

Development of Change in Unfunded Liability During FY13

		Pension		Healthcare	Total		
1. 2012 Unfunded Liability		4,898,523	\$	2,561,808	\$	7,460,331	
a. Interest on unfunded liability	\$	391,882	\$	204,944	\$	596,826	
b. Normal cost		167,203		95,499		262,702	
c. Employee contributions		(110,808)		(635)		(111,443)	
d. Employer contributions		(179,976)		(229,990)		(409,966)	
e. Employer legislative relief		(164,087)		(143,215)		(307,302)	
f. Medicare Part D subsidy		0		(10,415)		(10,415)	
g. Interest on b., c., d., e., and f.		(4,469)		(7,435)		(11,904)	
h. Expected change in unfunded liability during FY13	\$	99,745	\$	(91,247)	\$	8,498	
2. Expected 2013 Unfunded Liability	\$	4,998,268	\$	2,470,561	\$	7,468,829	
a. Liability (gains)/losses	\$	56,229	\$	(163,909)	\$	(107,680)	
b. Assets (gains)/losses		380,635		88,349		468,984	
c. Other changes in unfunded liability during FY13	\$	436,864	\$	(75,560)	\$	361,304	
3. Actual 2013 Unfunded Liability	\$	5,435,132	\$	2,395,001	\$	7,830,133	

Section 1.5

Analysis of Financial Experience - Pension

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

	Change in E	Change in Employer/State Contribution Rate During Fiscal Year							
	Pension								
Type of (Gain) or Loss	2009	2010	2011	2012	2013				
(1) Health Experience	N/A	N/A	N/A	N/A	N/A				
(2) Salary Experience	0.23%	0.06%	0.31%	0.23%	0.23%				
(3) Investment Experience	4.72%	(0.19)%	0.00%	2.40%	1.43%				
(4) Demographic Experience	(0.29)%	(0.30)%	0.29%	(1.00)%	(0.84)%				
(5) Contribution Shortfall	0.01%	0.36%	0.42%	0.25%	0.78%				
(6) (Gain) or Loss During Year From Experience, (1) + (2) + (3) + (4) + (5)	4.67%	(0.07)%	1.02%	1.88%	1.60%				
Non-recurring Changes									
(7) Asset Valuation Method	0.00%	0.00%	0.00%	0.00%	0.00%				
(8) Past Service Amortization Change	0.00%	0.00%	0.00%	4.89%	0.00%				
(9) Assumption and Method Changes	0.00%	0.87%	0.00%	0.00%	0.00%				
(10) System Benefit Changes	0.00%	0.00%	0.00%	0.00%	0.00%				
(11) Composite (Gain) or Loss During Year, (6) + (7) + (8) + (9) + (10)	4.67%	0.80%	1.02%	6.77%	1.60%				
(12) Beginning Employer/State Contribution Rate	9.98%	14.65%	15.45%	16.47%	23.24%				
(13) Ending Employer/State Contribution Rate, (11) + (12)	14.65%	15.45%	16.47%	23.24%	24.84%				
(14) Fiscal Year Above Rate is Applied	FY12	FY13	FY14	FY15	FY16				

Section 1.5 (cont'd)

Analysis of Financial Experience - Healthcare

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

	Change in E	mployer/State	e Contribution	n Rate During	Fiscal Year				
	<u></u>	Healthcare							
Type of (Gain) or Loss	2009	2010	2011	2012	2013				
(1) Health Experience	(2.21)%	0.24%	(1.82)%	(2.97)%	(1.51)%				
(2) Salary Experience	N/A	N/A	N/A	N/A	N/A				
(3) Investment Experience	0.59%	0.47%	0.26%	0.71%	0.33%				
(4) Demographic Experience	N/A	N/A	N/A	N/A	N/A				
(5) Contribution Shortfall	(0.25)%	(1.03)%	0.02%	(0.04)%	0.01%				
(6) (Gain) or Loss During Year From Experience, (1) + (2) + (3) + (4) + (5)	(1.87)%	(0.32)%	(1.54)%	(2.30)%	(1.17)%				
Non-recurring Changes									
(7) Asset Valuation Method	0.00%	0.00%	0.00%	0.00%	0.00%				
(8) Past Service Amortization Change	0.00%	0.00%	0.00%	2.32%	0.00%				
(9) Assumption and Method Changes	0.00%	1.59%	0.00%	0.75%	0.00%				
(10) System Benefit Changes	0.00%	0.00%	0.00%	0.00%	0.00%				
(11) Composite (Gain) or Loss During Year, (6) + (7) + (8) + (9) + (10)	(1.87)%	1.27%	(1.54)%	0.77%	(1.17)%				
(12) Beginning Employer/State Contribution Rate	17.98%	16.11%	17.38%	15.84%	16.61%				
(13) Ending Employer/State Contribution Rate, (11) + (12)	16.11%	17.38%	15.84%	16.61%	15.44%				
(14) Fiscal Year Above Rate is Applied	FY12	FY13	FY14	FY15	FY16				

Section 1.5 (cont'd)

Analysis of Financial Experience - Total

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

Change in Employer/State Contribution Rate During Fiscal Year

		1 - 7			5
			Total		
Type of (Gain) or Loss	2009	2010	2011	2012	2013
(1) Health Experience	(2.21)%	0.24%	(1.82)%	(2.97)%	(1.51)%
(2) Salary Experience	0.23%	0.06%	0.31%	0.23%	0.23%
(3) Investment Experience	5.31%	0.28%	0.26%	3.11%	1.76%
(4) Demographic Experience	(0.29)%	(0.30)%	0.29%	(1.00)%	(0.84)%
(5) Contribution Shortfall	(0.24)%	(0.67)%	0.44%	0.21%	0.79%
(6) (Gain) or Loss During Year From Experience, (1) + (2) + (3) + (4) + (5)	2.80%	(0.39)%	(0.52)%	(0.42)%	0.43%
Non-recurring Changes					
(7) Asset Valuation Method	0.00%	0.00%	0.00%	0.00%	0.00%
(8) Past Service Amortization Change	0.00%	0.00%	0.00%	7.21%	0.00%
(9) Assumption and Method Changes	0.00%	2.46%	0.00%	0.75%	0.00%
(10) System Benefit Changes	0.00%	0.00%	0.00%	0.00%	0.00%
(11) Composite (Gain) or Loss During Year, (6) + (7) + (8) + (9) + (10)	2.80%	2.07%	(0.52)%	7.54%	0.43%
(12) Beginning Employer/State Contribution Rate	27.96%	30.76%	32.83%	32.31%	39.85%
(13) Ending Employer/State Contribution Rate, (11) + (12)	30.76%	32.83%	32.31%	39.85%	40.28%
(14) Fiscal Year Above Rate is Applied	FY12	FY13	FY14	FY15	FY16

Section 1.6

History of UAAL and Funded Ratio (\$'s in 000's)

Valuation Date	Aggregate Accrued Liability	Valuation Assets	Assets as a Percent of Accrued Liability	Unfunded Accrued Liabilities (UAL)
June 30, 2003	10,561,653	7,687,281	72.8%	2,874,372
June 30, 2004	11,443,916	8,030,414	70.2%	3,413,502
June 30, 2005	12,844,841	8,442,919	65.7%	4,401,922
June 30, 2006	14,388,413	9,040,908	62.8%	5,347,505
June 30, 2007	14,570,933	9,900,960	68.0%	4,669,973
June 30, 2008	15,888,141	11,040,106	69.5%	4,848,035
June 30, 2009	16,579,371	10,242,978	61.8%	6,336,393
June 30, 2010	18,132,492	11,157,464	61.5%	6,975,028
June 30, 2011	18,740,550	11,813,774	63.0%	6,926,776
June 30, 2012	19,292,361	11,832,030	61.3%	7,460,331
June 30, 2013	19,992,759	12,162,626	60.8%	7,830,133



State of Alaska Public Employees' Retirement System

Section 2

Plan Assets

Summary of Fair Value of Assets (\$'s in 000's)

As of June 30, 2013	Pension	Healthcare	Total Fair Value	Allocation Percent
Cash and Short-Term Investments				
- Cash and Cash Equivalents	<u>\$ 79,519</u>	<u>\$ 97,597</u>	<u>\$ 177,116</u>	1.4%
- Subtotal	\$ 79,519	\$ 97,597	\$ 177,116	1.4%
Fixed Income Investments				
- Domestic Fixed Income Pool	\$ 508,306	\$ 444,101	\$ 952,407	7.6%
- International Fixed Income Pool	131,613	114,986	246,599	2.0%
- High Yield Pool	188,206	164,434	352,640	2.8%
- Treasury Inflation Protection Pool	3,095	2,704	5,799	0.0%
- Emerging Debt Pool	56,023	48,947	104,970	0.8%
- Subtotal	\$ 887,243	\$ 775,172	\$ 1,662,415	13.2%
Equity Investments				
- Domestic Equity Pool	\$ 2,180,511	\$ 1,905,166	\$ 4,085,677	32.5%
- International Equity Pool	1,298,463	1,134,483	2,432,946	19.4%
- Private Equity Pool	598,588	522,982	1,121,570	9.0%
- Emerging Markets Equity Pool	196,267	171,477	367,744	2.9%
- Subtotal	\$ 4,273,829	\$ 3,734,108	\$ 8,007,937	63.8%
Other Investments				
- Real Estate Pool	\$ 609,482	\$ 534,734	\$ 1,144,216	9.2%
- Other Investments Pool	537,716	469,837	1,007,553	8.0%
- Absolute Return Pool	294,813	257,575	552,388	4.4%
- Other Assets	23	3,378	3,401	<u>nil</u>
- Subtotal	\$ 1,442,034	<u>\$ 1,265,524</u>	\$ 2,707,558	21.6%
Total Cash and Investments	\$ 6,682,625	\$ 5,872,401	\$12,555,026	100.0%
Net Accrued Receivables / (Payables)	11,857	(42,830)	(30,973)	
Net Assets	\$ 6,694,482	\$ 5,829,571	\$12,524,053	

Changes in Fair Value of Assets (\$'s in 000's)

Fiscal Year 2013		Pension	Healthcare	Total Fair Value	
(1)	Net Assets, June 30, 2012				
	(fair value)	\$ 6,118,294	\$ 5,171,815	\$11,290,109	
(2)	Additions:				
	(a) Plan Member Contributions	\$ 110,808	\$ 635	\$ 111,443	
	(b) Employer Contributions	179,976	229,990	409,966	
	(c) Employer Legislative Relief	164,087	143,215	307,302	
	(d) Interest and Dividend Income	118,528	102,528	221,056	
	(e) Net Appreciation/(Depreciation) in Fair Value of Investments	646,379	549,624	1,196,003	
	(f) Medicare Part D Subsidy	0	10,415	10,415	
	(g) Other	28	22	50	
	(h) Total Additions	\$ 1,219,806	\$ 1,036,429	\$ 2,256,235	
(3)	Deductions:				
	(a) Medical Benefits	\$ 0	\$ 370,314	\$ 370,314	
	(b) Retirement Benefits	599,318	0	599,318	
	(c) Refunds of Contributions	10,929	0	10,929	
	(d) Investment Expenses	26,251	34	26,285	
	(e) Administrative Expenses	7,120	8,325	15,445	
	(f) Total Deductions	\$ 643,618	\$ 378,673	\$ 1,022,291	
(4)	Net Assets, June 30, 2013 (fair value)	\$ 6,694,482	\$ 5,829,571	\$12,524,053	
	proximate Fair Value Investment urn Rate During FY13 Net of All				
Exp	ense	12.0%	12.3%	12.1%	
Liqu	nidity Factor	10.5	14.9	12.1	

Actuarial Value of Assets (\$'s in 000's)

The actuarial value of assets was set equal to the fair value at June 30, 2002. Future investment gains and losses will be recognized 20% per year over 5 years. In no event may valuation assets be less than 80% or more than 120% of fair value as of the current valuation date.

	Pension	Healthcare	Total
(1) Deferral of Investment Return/(Loss) for FY13			
(a) Fair Value, June 30, 2012	\$ 6,118,294	\$ 5,171,815	\$11,290,109
(b) Contributions for FY13	454,871	373,840	828,711
(c) Medicare Part D Subsidy	0	10,415	10,415
(d) Benefit Payments for FY13	610,247	370,314	980,561
(e) Actual Investment Return (net of expenses)	731,564	643,815	1,375,379
(f) Expected Return Rate (net of expenses)	8.00%	8.00%	8.00%
(g) Expected Return - Weighted for Timing	483,368	414,292	897,660
(h) Investment Gain/(Loss) for the Year $(e g.)$	248,196	229,523	477,719
(i) Deferred Investment Return/(Loss)	183,733	177,694	361,427
(2) Actuarial Value, June 30, 2013			
(a) Fair Value, June 30, 2013	\$ 6,694,482	\$ 5,829,571	\$ 12,524,053
(b) 2013 Deferred Investment Return/(Loss)	183,733	177,694	361,427
(c) Preliminary Actuarial Value, June 30, 2013 (a b.)	6,510,749	5,651,877	12,162,626
(d) Upper Limit: 120% of Fair Value, June 30, 2013	8,033,378	6,995,485	N/A
(e) Lower Limit: 80% of Fair Value, June 30, 2013	5,355,586	4,663,657	N/A
(f) Actuarial Value, June 30, 2013 (c. limited by d. and e.)	\$ 6,510,749	\$ 5,651,877	\$ 12,162,626
(g) Ratio of Actuarial Value of Assets to Fair Value of Assets	97.3%	97.0%	97.1%
(h) Approximate Actuarial Value Investment Return Rate During FY13 Net of All Expenses	2.1%	6.3%	4.0%

Section 2.3 (cont'd)

Actuarial Value of Assets (\$'s in 000's)

The tables below show the development of gain/(loss) to be recognized in the current year (in thousands).

Pension

Plan Year Ended	Asset Gain/(Loss)	Gain/(Loss) Recognized in Prior Years	Gain/(Loss) Recognized This Year	Gain/(Loss) Deferred to Future Years
6/30/2009	\$ (2,243,791)	\$ (1,795,032)	\$ (448,759)	\$ 0
6/30/2010	87,855	52,713	17,571	17,571
6/30/2011	670,244	268,098	134,049	268,097
6/30/2012	(500,820)	(100,164)	(100,164)	(300,492)
6/30/2013	248,196	0	49,639	198,557
Total	\$ (1,738,316)	\$ (1,574,385)	\$ (347,664)	\$ 183,733

Healthcare

Plan Year Ended	Asset	Asset Gain/(Loss)		Sain/(Loss) gnized in Prior Years	ain/(Loss) ognized This Year	Deferr	in/(Loss) ed to Future Years
6/30/2009	\$	(837,986)	\$	(670,389)	\$ (167,597)	\$	0
6/30/2010		79,755		47,853	15,951		15,951
6/30/2011		526,010		210,404	105,202		210,404
6/30/2012		(387,131)		(77,426)	(77,426)		(232,279)
6/30/2013		229,523		0	45,905		183,618
Total	\$	(389,829)	\$	(489,558)	\$ (77,965)	\$	177,694

Total

Plan Year Ended	Asset Gain/(Loss)	Gain/(Loss) Recognized in Prior Years	Gain/(Loss) Recognized This Year	Gain/(Loss) Deferred to Future Years
6/30/2009	\$ (3,081,777)	\$(2,465,421)	\$ (616,356)	\$ 0
6/30/2010	167,610	100,566	33,522	33,522
6/30/2011	1,196,254	478,502	239,251	478,501
6/30/2012	(887,951)	(177,590)	(177,590)	(532,771)
6/30/2013	477,719	0	95,544	382,175
Total	\$ (2,128,145)	\$(2,063,943)	\$ (425,629)	\$ 361,427

Historical Asset Rate of Return

	Actuar	rial Value	Fair	Value
Year Ending	Annual	Cumulative	Annual	Cumulative
June 30, 2005	8.7%	8.7%	8.5%	8.5%
June 30, 2006	9.3%	9.0%	11.4%	9.9%
June 30, 2007	11.6%	9.9%	18.5%	12.7%
June 30, 2008	10.0%	9.9%	(3.1)%	8.5%
June 30, 2009	(7.3)%	6.2%	(20.5)%	2.0%
June 30, 2010	7.2%	6.4%	10.2%	3.3%
June 30, 2011	7.2%	6.5%	20.4%	5.6%
June 30, 2012	1.2%	5.8%	0.2%	4.9%
June 30, 2013	4.0%	5.6%	12.1%	5.7%

State of Alaska Public Employees' Retirement System

Section 3

Accounting Information

Section 3.1

Schedule of Funding Progress – Total PERS (\$'s in 000's)

The exhibit below shows the pension disclosure under GASB No. 25.

Valuation Date	Aggregate Accrued Liability	,	Valuation Assets	Assets as Percent o Accrued Liability	f	Jnfunded Accrued ∟iabilities (UAL)	Annual Active Member Payroll ¹	UAL as a Percent of Annual Active Member Payroll
June 30, 2013 – 8.00%	\$ 11,945,881	\$	6,510,749	54.5%		\$ 5,435,132	\$ 1,534,665	354.2%
June 30, 2012 – 8.00%	\$ 11,428,944	\$	6,530,421	57.1%		\$ 4,898,523	\$ 1,522,399	321.8%
June 30, 2011 – 8.00%	\$ 10,919,047	\$	6,762,149	61.9%		\$ 4,156,898	\$ 1,559,938	266.5%
June $30, 2010^2 - 8.00\%$	\$ 10,371,672	\$	6,469,832	62.4%		\$ 3,901,840	\$ 1,586,697	245.9%
June 30, 2009 – 8.25%	\$ 9,702,086	\$	6,108,528	63.0%		\$ 3,593,558	\$ 1,585,490	226.7%
June 30, 2008 – 8.25%	\$ 9,154,282	\$	7,210,772	78.8%		\$ 1,943,510	\$ 1,577,846	123.2%
June 30, 2007 – 8.25%	\$ 8,662,324	\$	6,739,004	77.8%		\$ 1,923,320	\$ 1,605,819	119.8%
June $30, 2006^2 - 8.25\%$	\$ 8,094,043	\$	6,331,065	78.2%		\$ 1,762,978	\$ 1,590,693	110.8%

The exhibit below shows the postemployment healthcare disclosure without regard to the Medicare Part D subsidy under GASB No. 43.

Valuation Date		Aggregate Accrued Liability	,	Valuation Assets	Assets as a Percent of Accrued Liability	Unfunded Accrued Liabilities (UAL)		Annual Active Member Payroll ¹	UAL as a Percent of Annual Active Member Payroll
June 30, 2013 – 5.41%	\$	12,281,372	\$	5,651,877	46.0%	\$ 6,629,495	\$	1,534,665	432.0%
June 30, $2012^2 - 6.88\%$	\$	9,812,274	\$	5,301,609	54.0%	\$ 4,510,665	\$	1,522,399	296.3%
June 30, 2011 – 7.43%	\$	9,091,034	\$	5,051,625	55.6%	\$ 4,039,409	\$	1,559,938	258.9%
June 30, $2010^2 - 7.48\%$	\$	9,304,504	\$	4,687,632	50.4%	\$ 4,616,872	\$	1,586,697	291.0%
June 30, 2009 – 4.70%	\$	12,770,990	\$	4,134,450	32.4%	\$ 8,636,540	\$	1,585,490	544.7%
June 30, $2008^2 - 4.50\%$	\$	13,013,450	\$	3,829,334	29.4%	\$ 9,184,116	\$	1,577,846	582.1%
June 30, 2007 – 4.50%	\$	11,108,553	\$	3,161,956	28.5%	\$ 7,946,597	\$	1,605,819	494.9%
June 30, $2006^2 - 4.50\%$	\$	11,455,015	\$	2,709,843	23.7%	\$ 8,745,172	\$	1,590,693	549.8%

² Change in assumptions



¹ Actual active member payroll has been based on information provided by KPMG, LLP.

State of Alaska Public Employees' Retirement System

Section 3.1 (cont'd)

Schedule of Funding Progress - Total PERS

For illustration, the exhibit below shows the postemployment healthcare disclosure without regard to the Medicare Part D subsidy discounted at 8.00% and at 4.25% per annum under GASB No. 43 for the current year. These values show the minimum and maximum accrued liability amounts depending on the portion of ARC actually contributed.

Valuation Date	Aggregate Accrued Liability	Valuation Assets	Assets as a Percent of Accrued Liability	Unfunded Accrued Liabilities (UAL)	Annual Active Member Payroll	UAL as a Percent of Annual Active Member Payroll
June 30, 2013 – 8.00%	\$ 8,595,131	\$ 5,651,877	65.8%	\$ 2,943,254	\$ 1,534,665	191.8%
June 30 2013 – 4 25%	\$ 14,753,927	\$ 5.651.877	38.3%	\$ 9.102.050	\$ 1.534.665	593.1%

Section 3.1 (cont'd)

Schedule of Funding Progress – Total PERS (\$'s in 000's)

The exhibit below shows the combined pension and postemployment healthcare disclosure under GASB No. 25, prior to 2006.

Valuation Date	Aggregate Accrued Liability	Valuation Assets	Assets as a Percent of Accrued Liability	Unfunded Accrued Liabilities (UAL)	Annual Active Member Payroll	UAL as a Percent of Annual Active Member Payroll
June 30, 2005	\$ 12,844,841	\$ 8,442,919	65.7%	\$ 4,401,922	\$ 1,513,117	290.9%
June 30, 2004 ²³	11,443,916	8,030,414	70.2%	3,413,502	1,472,987	231.7%
June 30, 2003	10,561,653	7,687,281	72.8%	2,874,372	1,460,783	196.8%
June 30, 2002 ^{1 2 3}	9,859,591	7,412,833	75.2%	2,446,758	1,402,687	174.4%
June 30, 2001	7,868,574	7,941,756	100.9%	N/A	1,360,401	N/A
June 30, 2000 ^{2 3}	7,376,912	7,454,758	101.1%	N/A	1,324,278	N/A
June 30, 1999	6,648,673	7,016,340	105.5%	N/A	1,279,359	N/A
June 30, 1998 ^{1 2 3}	6,203,991	6,571,562	105.9%	N/A	1,232,488	N/A
June 30, 1997	5,534,116	5,885,488	106.3%	N/A	1,227,795	N/A

¹ Change in Asset Valuation Method

² Change of Assumptions

³ Change in Methods

Section 3.2

Schedule of Employer Contributions (\$'s in 000's)

The exhibit below shows the combined pension and postemployment healthcare disclosure under GASB No. 25 and 26 for fiscal years ending in 2006 and before.

	Fiscal Year Ended June 30	Total Annual Required Contribution	Total Percentage Contributed
_	2006	\$ 416,237	65.4%
	2005	376,754	47.3%
	2004	105,585	100.0%
	2003	89,934	110.3%
	2002	92,098	102.9%
	2001	91,628	105.3%
	2000	89,084	105.2%
	1999	97,197	100.0%
	1998	95,217	100.0%
	1997	144,863	100.0%

This exhibit below shows the pension disclosure under GASB No. 25 for fiscal year ending 2007 and later.

			Perce	entage Contrib	uted
Fiscal Year Ended June 30	Total Annual Re	quired Contribution	By Employer	By State	Total
2013	\$	382,889	47.0%	42.9%	89.9%
2012	\$	351,674	52.0%	37.2%	89.2%
2011	\$	220,419	63.1%	29.6%	92.7%
2010*	\$	217,080	65.5%	20.5%	86.0%
2009	\$	166,016	68.1%	48.0%	116.1%
2008	\$	140,729	71.2%	36.2%	107.4%
2007	\$	268,742	73.2%	4.1%	77.3%

This exhibit below shows the postemployment healthcare disclosure without regard to the Medicare Part D subsidy under GASB No. 43 for fiscal year ending 2007 and later.

			Percentage Contributed					
Fiscal Year Ended June 30	Total Annual Red	quired Contribution	By Employer	By State	Total			
2013	\$	612,792	37.5%	25.1%	62.6%			
2012	\$	498,433	44.8%	28.8%	73.6%			
2011	\$	525,075	49.8%	21.6%	71.4%			
2010*	\$	790,793	31.6%	54.8%	86.4%			
2009	\$	391,321	68.1%	41.4%	109.5%			
2008	\$	370,456	71.2%	36.2%	107.4%			
2007	\$	189,495	73.2%	4.1%	77.3%			

^{*}The ARC and percentage contributed is based on Buck's calculation and does not match the CAFR. The percentage contributed in includes the legal settlement in FY10, net of fees, as well as the Medicare Part D subsidy contributed by the State to the Healthcare Fund



Section 3.2 (cont'd)

Schedule of Employer Contributions

The exhibit below shows the annual required contribution (ARC) as a percentage of pay for pension and healthcare.

ARC (% of Pay)

Valuation Date	Fiscal Year	Pension	Healthcare	Total	Pension Discount Rate	Healthcare Discount Rate	
June 30, 2005	FY08	10.72%	53.96%	64.68%	8.25%	4.50%	
June 30, 2006	FY09	13.49%	55.87%	69.36%	8.25%	4.50%	
June 30, 2007	FY10	13.72%	49.98%	63.70%	8.25%	4.70%	
June 30, 2008	FY11	14.13%	33.66%	47.79%	8.25%	7.48%	
June 30, 2009	FY12	23.10%	32.74%	55.84%	8.25%	7.43%	
June 30, 2010*	FY13	24.95%	39.93%	64.88%	8.00%	6.88%	
June 30, 2011	FY14	27.94%	52.55%	80.49%	8.00%	5.41%	
June 30, 2012	FY15	33.05%	55.07%	88.12%	8.00%	4.90%	
June 30, 2013	FY16	37.79%	58.73%	96.52%	8.00%	4.55%	

^{*}Change in discount rate assumptions effective June 30, 2010

ARC is based on DB salary only and a level dollar amortization of the unfunded liability.

Section 3.3

Notes To Trend Data

Actuarial Assumptions, Methods and Additional Information Under GASB

Valuation Date	June 30, 2013
Actuarial Cost Method	Entry Age Normal
	Level Percentage of Pay for Pension
	Level Dollar for Healthcare
Amortization Method	Level dollar, closed
Equivalent Single Amortization Period	17 years
Asset Valuation Method	5-year smoothed fair value
Actuarial Assumptions:	
Investment rate of return*	8.00% for pension, 5.41% for healthcare.
Projected salary increases	Peace Officer/Firefighter: Merit – 2.75% per year for the first 4 years
	of employment, grading down to 0.5% at 7 years and thereafter.
	Productivity – 0.5% per year.
	Others: Merit – 6.00% per year grading down to 2.00% after 5
	years; for more than 6 years of service, 1.50% grading down to 0%.
	Productivity – 0.5% per year.
*Includes inflation at	3.12%
Cost-of-living adjustment	Post-retirement Pension Adjustment as described in Section 6.1, item (14)

GASB 43 requires that the discount rate used in the valuation be the estimated long-term yield on investments that are expected to finance postemployment benefits. Depending on the method by which a plan is financed, the relevant investments could be plan assets, employer assets or a combination of plan and employer assets. The investment return should reflect the nature and the mix of both current and expected investments and the basis used to determine the actuarial value of assets.

The State of Alaska Public Employees' Retirement System's retiree healthcare benefits are partially funded. GASB outlines two reasonable methods of developing a blended discount rate when a plan is partially funded. These methods base the proportion of assumed plan and employer asset returns on 1) the funded ratio and 2) the percentage of the annual required contribution (ARC) actually being contributed to the plan. The State of Alaska has utilized the second methodology to develop a discount rate of 5.41% as of June 30, 2011, to be used for fiscal 2014 disclosure.

The development of the discount rate used for the FY14 healthcare liabilities valuation disclosure purposes is summarized below:

Investment	Returns
------------	---------

Plan As	sets (Long-Term Return)	=	8.00%
Employ	rer Assets (Estimated Short-Term Return)	=	4.25%
Based of	on Percentage of ARC Contributed During FY11*		
1.	Contribution Allocated to Healthcare	=	22.61%
2.	Annual Required Contribution, Funding Assumptions	=	33.66%
3.	Pay-as-you-go Contribution	=	17.68%
4.	Portion of ARC Contributed: [(1-3) / (2-3), not less than 0%, not	=	30.87%
	greater than 100%)]		
5.	Multiplied by long-term investment return	=	2.47%
6.	Portion of ARC not Contributed: [100% - (4)]	=	69.13%
7.	Multiplied by short-term investment return	=	2.94%
8.	Total: $(5) + (7)$	=	5.41%

^{*}It is assumed that fiscal 2009 contributions allocated to healthcare ARC for funding purposes and pay-as-you-go contributions are used to derive the GASB 43 discount rate applied to the June 30, 2011 valuation (fiscal 2012), which in turn drives the fiscal 2014 GASB 43 ARC.

Using the GASB 43 discount rate determined above and disregarding future Medicare Part D payments, the fiscal 2014 employer ARC rate for accounting purposes is 52.55% of pay for healthcare benefits and 80.49% of pay for healthcare and pension benefits combined.



Section 3.4

Solvency Test (\$'s in 000's)

The exhibit below shows the combined pension and postemployment healthcare Solvency Test for valuation dates June 30, 2010 and before.

Valuation Date	Agg	regate	e Accrued Liab	ility F	or:			Portion of Accrued Liabilities Covered by Assets:			
	(1) Active Member Contributions		(2) Inactive Members	A	(3) ctive Members (Employer- Financed Portion)	_	Valuation Assets	(1)	(2)	(3)	
June 30, 2010 ¹	\$ 1,388,029	\$	10,850,267	\$	5,894,196	\$	11,157,464	100.0%	90.0%	0.0%	
June 30, 2009	1,315,924		10,147,353		5,116,094		10,242,978	100.0%	88.0%	0.0%	
June 30, 2008 ¹	1,242,288		9,772,672		4,873,181		11,040,106	100.0%	100.0%	0.5%	
June 30, 2007	1,203,007		8,967,038		4,400,888		9,900,960	100.0%	97.0%	0.0%	
June 30, 2006 ¹²	1,157,755		8,923,811		4,306,847		9,040,908	100.0%	88.3%	0.0%	
June 30, 2005	1,104,821		8,667,058		3,072,962		8,442,919	100.0%	84.7%	0.0%	
June 30, 2004 ¹	1,070,268		7,650,156		2,723,492		8,030,414	100.0%	91.0%	0.0%	
June 30, 2003	1,026,730		6,860,834		2,674,089		7,687,281	100.0%	97.1%	0.0%	
June 30, 2002 ^{1 2 3}	967,045		6,301,095		2,591,451		7,412,833	100.0%	100.0%	5.6%	
June 30, 2001	920,702		5,059,386		1,888,486		7,941,756	100.0%	100.0%	100.0%	

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

³ Change in Asset Valuation Method



¹ Change in Assumptions

² Change in Methods

Section 3.3 (cont'd)

Solvency Test (\$'s in 000's)

The exhibit below shows the pension Solvency Test for valuation dates June 30, 2005 and later.

Pension Aggregate Accrued Liability For:

Portion of Accrued Liabilities Covered by Assets:

		 _		-				-	
Valuation Date	(1) Active Member Contributions	(2) Inactive Members	A	(3) ctive Members (Employer- Financed Portion)	_	Pension Valuation Assets	(1)	(2)	(3)
June 30, 2013	\$ 1,479,538	\$ 7,514,255	\$	2,952,088	\$	6,510,749	100.0%	67.0%	0.0%
June 30, 2012	1,459,943	7,057,967		2,911,034		6,530,421	100.0%	71.8%	0.0%
June 30, 2011	1,421,967	6,657,517		2,839,563		6,762,149	100.0%	80.2%	0.0%
June 30, 2010 ¹	1,388,029	6,268,461		2,715,182		6,469,832	100.0%	81.1%	0.0%
June 30, 2009	1,315,924	5,914,959		2,471,203		6,108,528	100.0%	81.0%	0.0%
June 30, 2008	1,242,288	5,606,402		2,305,592		7,210,772	100.0%	100.0%	15.7%
June 30, 2007	1,203,007	5,282,132		2,177,185		6,739,004	100.0%	100.0%	11.7%
June 30, 2006 ¹ ²	1,157,755	4,933,609		2,002,679		6,331,065	100.0%	100.0%	12.0%
June 30, 2005	1,104,821	4,627,467		1,354,903		$6,016,713^3$	100.0%	100.0%	21.0%

³ The pension and postemployment healthcare valuation assets were allocated using a ratio of fair value of assets as of June 30, 2005



¹ Change in Assumptions

² Change in Methods

Section 3.3 (cont'd)

Solvency Test (\$'s in 000's)

The exhibit below shows the postemployment healthcare Solvency Test for valuation dates June 30, 2005 and later.

			Postemployment Healthcare gregate Accrued Liability For:						Portion of Accrued Liabilities Covered by Assets:			
Valuation Date	Active	(1) Active Member Contributions		(2) Inactive Members		(3) Active Members (Employer- Financed Portion)		ostemployment Healthcare Valuation Assets	(1)	(2)	(3)	
June 30, 2013 ¹	\$	0	\$	5,298,380	\$	2,748,498	\$	5,651,877	100.0%	100.0%	12.9%	
June 30, 2012 ¹		0		5,026,080		2,837,337		5,301,609	100.0%	100.0%	9.7%	
June 30, 2011		0		4,812,845		3,008,658		5,051,625	100.0%	100.0%	7.9%	
June 30, 2010 ¹		0		4,581,806		3,179,014		4,687,632	100.0%	100.0%	3.3%	
June 30, 2009		0		4,232,394		2,644,891		4,134,450	100.0%	97.7%	0.0%	
June 30, 2008 ¹		0		4,166,270		2,567,589		3,829,334	100.0%	91.9%	0.0%	
June 30, 2007		0		3,684,906		2,223,703		3,161,956	100.0%	85.8%	0.0%	
June 30, 2006 ¹²		0		3,990,202		2,304,168		2,709,843	100.0%	67.9%	0.0%	
June 30, 2005		0		4,039,591		1,718,059		$2,426,206^3$	100.0%	60.1%	0.0%	

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

³ The pension and postemployment healthcare valuation assets were allocated using a ratio of fair value of assets as of June 30, 2005



¹ Change in Assumptions

² Change in Methods

State of Alaska Public Employees' Retirement System

Section 4

Projections

Section 4.1

Projection Assumptions and Methods

Key Assumptions

- 8.00% investment return on the Fair Value of Assets in all future years.
- The Actuarial Value of Assets reflects the deferred gains and losses generated by the smoothing method. The current deferred amounts are recognized in the first four years of the projections.
- Actuarial assumptions and methods as described in Section 6. All future demographic experience is assumed to be exactly realized.
- The actuarially calculated contribution rate with a two-year lag is adopted each year.
- No new DB Plan members enter into Tiers 1,2 and 3.
- Projections assume a 1% increase in the total active member population. All new members are expected to enter the DCR plan and contribution rates are determined as a percent of total DB and DCR payroll, combined.
- For the Sensitivity Analysis, all assumptions and methods are the same except investment returns on the Fair Value of Assets are assumed as follows:

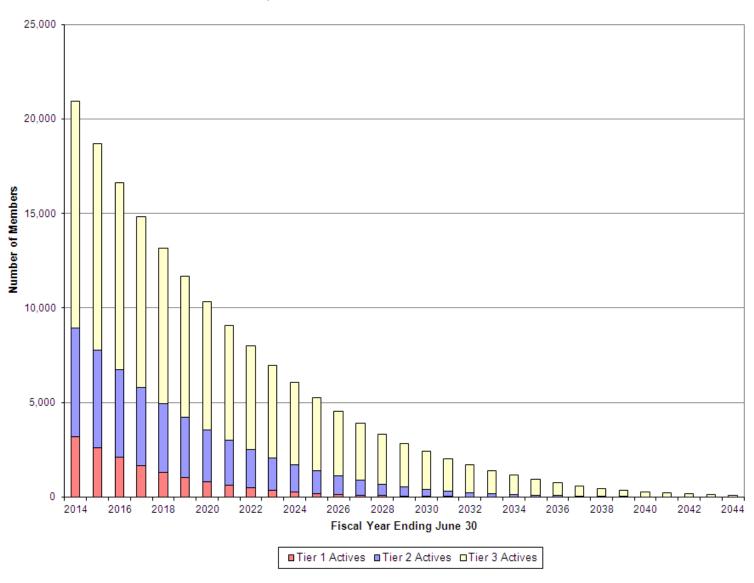
Base Case: 8.00% for all future years Optimistic: 8.75% for all future years Pessimistic: 7.25% for all future years

In each case, liabilities have been projected using 8.00% as the discount rate for future benefit payments. These scenarios are intended to illustrate the impact if investment rates are different than the 8.00% assumed investment return. They do not illustrate the effect of changing the assumed discount rate for determining liabilities.

Section 4.2

Membership Projection

Projected Active Member Count

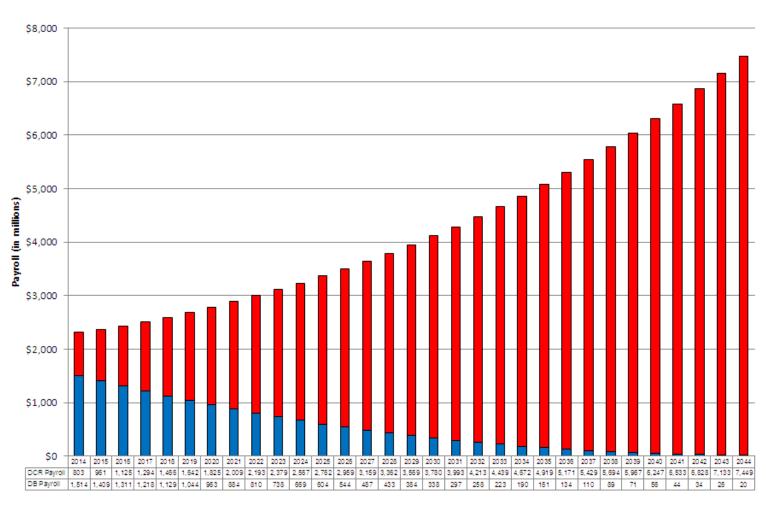


P:\Admin\Alaska\2014\Alaska_rpt063013_PERS_Final.doc

Section 4.2 (cont'd)

Membership Projection

Projected DB and DCR Payroll



Fiscal Year Ending June 30

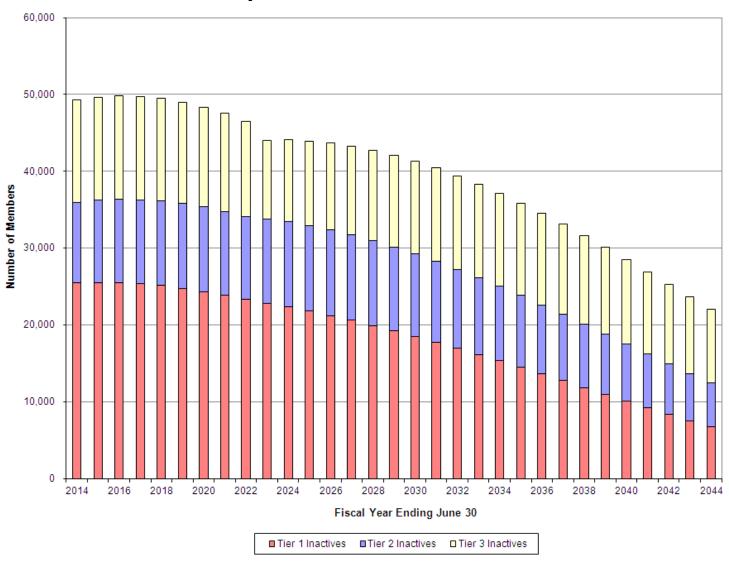
■ DB Payroll ■ DCR Payroll



Section 4.2 (cont'd)

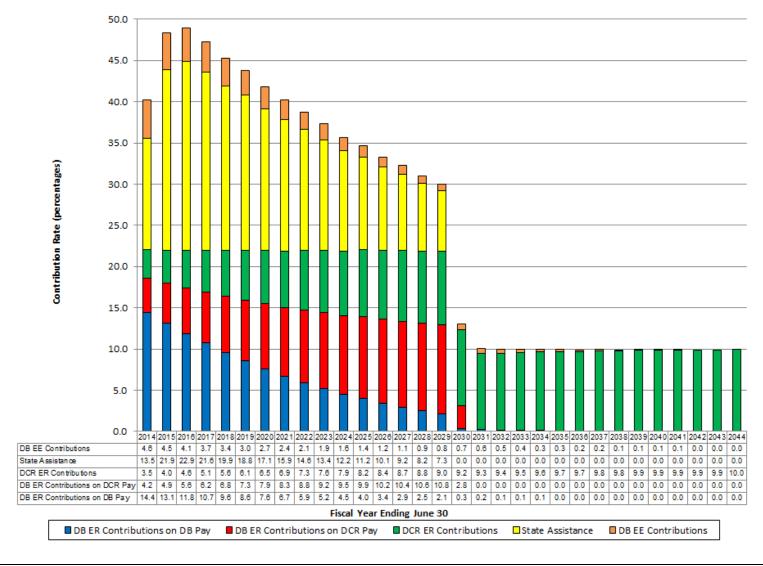
Membership Projection

Projected Inactive Member Count



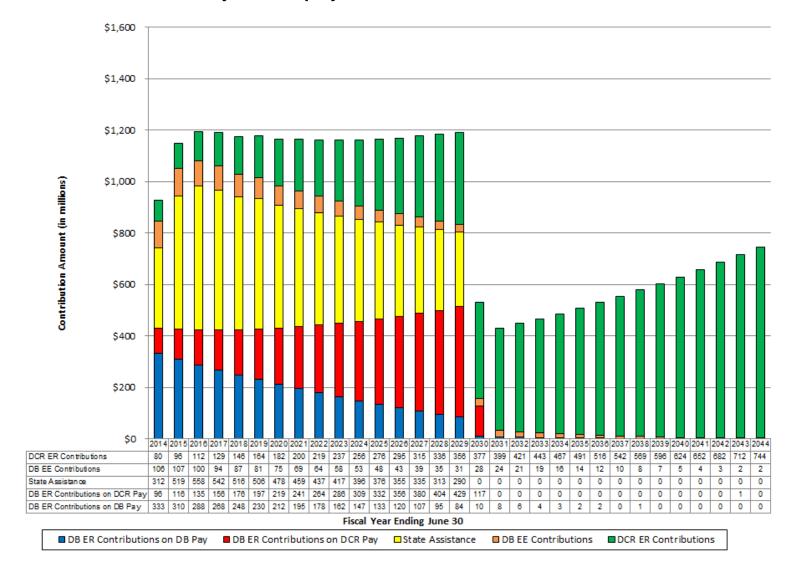
Section 4.3

Projected Employer/State Contribution Rates (Based on Total DB and DCR Payroll)



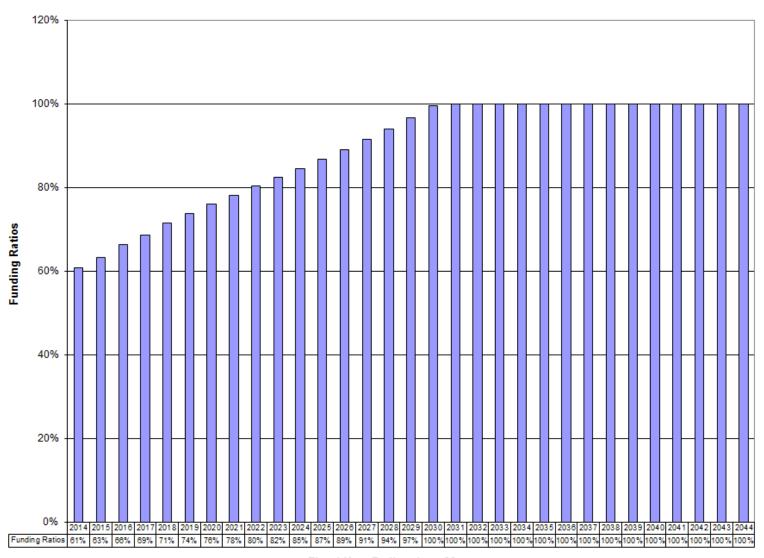
Section 4.4

Projected Employer/State Contribution Amounts



Section 4.5

Projection of Funding Ratios



Fiscal Year Ending June 30



Section 4.6

Table of Projected Actuarial Results

State of Alaska PERS Financial Projections (in Thousands)

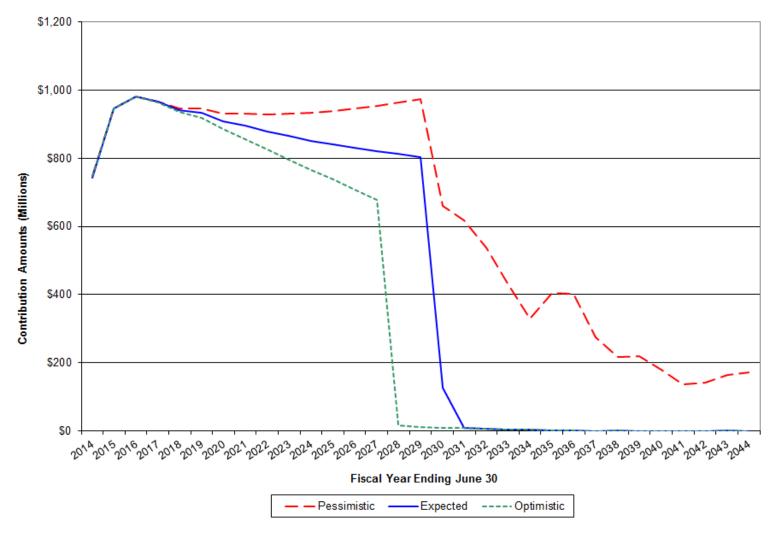
	Valuation	Amounts on July 1	(Beginning of F	iscal Year)	Flow Amounts During Following 12 Months										Recognized	Ending
Fiscal Year End	Actuarial Assets	Accrued Liability	Funding Ratio	Surplus (Deficit)	Total Salaries	Emploger/State Ctb Rate	Emploger Contribs	State Contribs	Emploger/State Contribs	Employee Contribs	Total Contribs	Benefit Pagments	Net Contribs	Investment Earnings	Asset Gain/(Loss)	Actuarial Assets
2014	\$12,162,626	\$19,992,759	60.8%	(\$7,830,133)	\$2,316,679	32.31%	\$429,550	\$312,473	\$742,023	\$114,407	\$856,430	\$1,049,470	(\$193,040)	\$990,848	\$190,726	\$13,151,160
2015	13,151,160	20,768,141	63.3%	(7,616,981)	2,370,407	39.85%	425,561	519,046	944,607	116,539	1,061,146	1,131,484	(70,338)	1,059,213	157,204	14,297,239
2016	14,297,239	21,500,882	66.5%	(7,203,643)	2,436,356	40.28%	423,684	557,680	981,364	109,950	1,091,314	1,214,599	(123,285)	1,135,968	(82,046)	15,227,876
2017	15,227,876	22,184,844	68.6%	(6,956,968)	2,511,843	38.42%	423,480	541,570	965,050	103,695	1,068,745	1,299,599	(230,854)	1,212,479	95,544	16,305,045
2018	16,305,045	22,814,808	71.5%	(6,509,763)	2,595,714	36.26%	424,725	516,481	941,206	97,670	1,038,876	1,377,948	(339,072)	1,286,502	0	17,252,475
2019	17,252,475	23,393,892	73.7%	(6,141,417)	2,686,454	34.73%	427,132	505,873	933,005	92,055	1,025,060	1,451,473	(426,413)	1,358,625	0	18,184,687
2020	18,184,687	23,926,293	76.0%	(5,741,606)	2,788,129	32.61%	431,221	477,988	909,209	86,417	995,626	1,527,324	(531,698)	1,428,818	0	19,081,807
2021	19,081,807	24,406,593	78.2%	(5,324,786)	2,892,936	30.93%	435,993	458,792	894,785	81,071	975,856	1,611,639	(635,783)	1,496,223	0	19,942,247
2022	19,942,247	24,822,310	80.3%	(4,880,063)	3,002,594	29.28%	441,704	437,456	879,160	76,122	955,282	1,692,187	(736,905)	1,560,822	0	20,766,164
2023	20,766,164	25,174,984	82.5%	(4,408,820)	3,116,400	27.75%	448,183	416,618	864,801	71,305	936,106	1,772,810	(836,704)	1,622,551	0	21,552,011
2024	21,552,011	25,459,864	84.7%	(3,907,853)	3,236,445	26.32%	455,761	396,071	851,832	53,078	904,910	1,845,937	(941,027)	1,681,082	0	22,292,066
2025	22,292,066	25,678,505	86.8%	(3,386,439)	3,366,562	24.97%	464,905	375,726	840,631	48,142	888,773	1,902,783	(1,014,010)	1,737,234	0	23,015,290
2026	23,015,290	25,832,756	89.1%	(2,817,466)	3,502,782	23.70%	475,202	354,957	830,159	43,434	873,593	1,985,483	(1,111,890)	1,790,976	0	23,694,376
2027	23,694,376	25,901,466	91.5%	(2,207,090)	3,645,213	22.53%	486,571	334,695	821,266	39,368	860,634	2,048,252	(1,187,618)	1,842,122	0	24,348,880
2028	24,348,880	25,902,397	94.0%	(1,553,517)	3,795,013	21.40%	499,199	312,934	812,133	34,914	847,047	2,117,951	(1,270,904)	1,890,983	0	24,968,959
2029	24,968,959	25,821,508	96.7%	(852,549)	3,952,739	20.32%	513,227	289,970	803,197	31,227	834,424	2,170,995	(1,336,571)	1,937,836	0	25,570,224
2030	25,570,224	25,672,461	99.6%	(102,237)	4,118,011	3.09%	127,247	0	127,247	27,591	154,838	2,219,861	(2,065,023)	1,957,196	0	25,462,397
2031	25,462,397	25,453,386	100.0%	9,011	4,289,990	0.18%	7,722	0	7,722	24,453	32,175	2,280,277	(2,248,102)	1,941,186	0	25,155,481
2032	25,155,481	25,147,126	100.0%	8,355	4,471,185	0.13%	5,813	0	5,813	21,462	27,275	2,337,925	(2,310,650)	1,913,987	0	24,758,818
2033	24,758,818	24,752,661	100.0%	6,157	4,661,733	0.09%	4,196	0	4,196	18,647	22,843	2,377,043	(2,354,200)	1,880,415	0	24,285,033
2034	24,285,033	24,277,953	100.0%	7,080	4,862,368	0.07%	3,404	0	3,404	16,046	19,450	2,394,265	(2,374,815)	1,841,646	0	23,751,864
2035	23,751,864	23,746,376	100.0%	5,488	5,080,240	0.04%	2,032	0	2,032	13,717	15,749	2,416,667	(2,400,918)	1,797,893	0	23,148,839
2036	23,148,839	23,141,649	100.0%	7,190	5,305,359	0.03%	1,592	0	1,592	11,672	13,264	2,431,262	(2,417,998)	1,748,933	0	22,479,774
2037	22,479,774	22,473,818	100.0%	5,956	5,539,016	0.00%	0	0	0	9,970	9,970	2,456,605	(2,446,635)	1,694,199	0	21,727,338
2038	21,727,338	21,721,299	100.0%	6,039	5,782,772	0.01%	578	0	578	8,096	8,674	2,447,489	(2,438,815)	1,634,342	0	20,922,865
2039	20,922,865	20,917,657	100.0%	5,208	6,037,582	0.00%	0	0	0	6,641	6,641	2,412,688	(2,406,047)	1,571,386	0	20,088,204
2040	20,088,204	20,083,898	100.0%	4,306	6,302,754	0.00%	0	0	0	5,042	5,042	2,383,196	(2,378,154)	1,505,805	0	19,215,855
2041	19,215,855	19,212,496	100.0%	3,359	6,576,801	0.00%	0	0	0	3,946	3,946	2,367,646	(2,363,700)	1,436,636	0	18,288,791
2042	18,288,791	18,286,080	100.0%	2,711	6,862,328	0.00%	0	0	0	3,431	3,431	2,306,781	(2,303,350)	1,365,042	0	17,350,483
2043	17,350,483	17,348,031	100.0%	2,452	7,159,124	0.01%	716	0	716	2,148	2,864	2,247,131	(2,244,267)	1,292,494	ō	16,398,710
2044	16,398,710	16,396,247	100.0%	2,463	7,469,002	0.00%	0	0	0	2,241	2,241	2,171,587	(2,169,346)	1,219,544	Ö	15,448,908
		,,		_,	.,,		\$ 7,359,398	\$ 6,808,330	\$ 14,167,728		\$ 15,542,225		(-,,,	-11		,-,-,-

Investment Return: 8.00%

Section 4.7

Sensitivity Analysis

Impact Various Investment Rates of Return Have on the Employer/State Contribution Amount



State of Alaska Public Employees' Retirement System

Section 5

Member Data

Section 5.1

Summary of Members Included – Total PERS

As of June 30		2009		2010		2011		2012		2013
Active Members										
(1) Number		27,565		26,442		24,393		22,730		20,955
(2) Average Age		47.85		48.58		49.22		49.85		50.39
(3) Average Credited Service		11.19		11.84		12.60		13.32		14.00
(4) Average Entry Age		36.66		36.74		36.62		36.53		36.39
(5) Average Annual Earnings	\$	57,518	\$	60,007	\$	63,201	\$	66,119	\$	69,211
(6) Number Vested		20,671		21,477		21,640		20,842		19,670
(7) Percent Who Are Vested		75.0%		81.2%		88.7%		91.7%		93.9%
Retirees, Disableds and Beneficiaries										
(1) Number		25,015		26,237		27,359		28,540		29,865
(2) Average Age		66.39		66.71		67.05		67.41		67.76
(3) Average Monthly Pension Benefit								-		
Base	\$	1,280	\$	1,309	\$	1,345	\$	1,375	\$	1,415
COLA	•	85	*	86	*	88	•	89	*	90
P.R.P.A.		244		231		229		241		242
Adjustment		0		0		0		0		0
Total	\$	1,609	\$	1,626	\$	1,662	\$	1,705	\$	1,747
Vested Terminations (vested at time of ter	min	ation, not	refu	ınded cont	ribu	ıtions or c	om	menced b	ene	fits)
(1) Number		6,566		6,253		6,414		6,294		6,230
(2) Average Age		49.83		49.90		50.29		50.55		50.84
(3) Average Monthly Pension Benefit	\$	836	\$	805	\$	821	\$	844	\$	863
Non-Vested Terminations With Account B	alan	•	est		nati	•	une		buti	•
(1) Number		14,626	_	14,543		14,028		13,552		13,162
(2) Average Account Balance	\$	4,654	\$	4,895	\$	5,074	\$	5,373	\$	5,578
Total Number of Members		73,772		73,475		72,194		71,116		70,212

Section 5.1 (cont'd)

Summary of Members Included – Total PERS

			DCR			
As of June 30, 2013	Tier 1	Tier 2	Tier 3	Total	Tier 4	Grand Total
Active Members						
(1) Numbers	3,203	5,758	11,994	20,955	14,316	35,271
(2) Average Age	57.36	53.00	47.28	50.39	39.53	45.98
(3) Average Credited Service	20.47	18.21	10.24	14.00	2.59	9.37
(4) Average Entry Age	38.89	34.79	37.04	36.39	36.94	36.61
(5) Annual Earnings						
(a) Amount (000's)	\$ 232,569	\$ 429,018	\$ 788,733	\$1,450,320	\$ 748,658	\$2,198,978
(b) Average	\$ 72,610	\$ 74,508	\$ 65,761	\$ 69,211	\$ 52,295	\$ 62,345

As of June 30, 2013	Tier 1	Tier 2	Tier 3		Total	
Retirees, Disableds and Beneficiaries						
(1) Number	23,029	5,198	1,638	2	29,865	
(2) Average Age	68.23	66.63	64.71		67.76	
(3) Average Monthly Pension Benefit						
Base	\$ 1,522	\$ 1,120	\$ 840	\$	1,415	
COLA	107	35	30		90	
P.R.P.A.	293	81	31		242	
Adjustment	0	0	1		0	
Total	\$ 1,922	\$ 1,236	\$ 902	\$	1,747	

Section 5.1 (cont'd)

Summary of Members Included

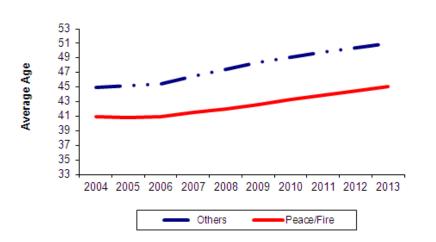
Active Members - DB Only

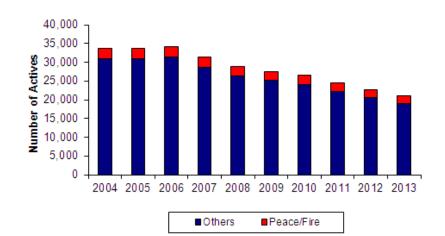
As of June 30	2009	2010	2011	2012	2013
Peace Officer/Firefighter					
(1) Number	2,476	2,388	2,275	2,164	2,065
(2) Average Age	42.63	43.25	43.86	44.48	45.09
(3) Average Credited Service	11.55	12.32	13.13	13.90	14.71
(4) Average Entry Age	31.08	30.93	30.73	30.58	30.38
(5) Average Annual Earnings	\$ 78,562	\$ 80,777	\$ 87,709	\$ 91,286	\$ 95,658
(6) Number Vested	2,017	2,102	2,183	2,098	2,018
(7) Percent Who Are Vested	81.5%	88.0%	96.0%	97.0%	97.7%
Others					
(1) Number	25,089	24,054	22,118	20,566	18,890
(2) Average Age	48.36	49.11	49.77	50.41	50.97
(3) Average Credited Service	11.15	11.79	12.55	13.26	13.92
(4) Average Entry Age	37.21	37.32	37.22	37.15	37.05
(5) Average Annual Earnings	\$ 55,441	\$ 57,945	\$ 60,680	\$ 63,471	\$ 66,320
(6) Number Vested	18,654	19,375	19,457	18,744	17,652
(7) Percent Who Are Vested	74.4%	80.5%	88.0%	91.1%	93.4%
Total					
(1) Number	27,565	26,442	24,393	22,730	20,955
(2) Average Age	47.85	48.58	49.22	49.85	50.39
(3) Average Credited Service	11.19	11.84	12.60	13.32	14.00
(4) Average Entry Age	36.66	36.74	36.62	36.53	36.39
(5) Average Annual Earnings	\$ 57,518	\$ 60,007	\$ 63,201	\$ 66,119	\$ 69,211
(6) Number Vested	20,671	21,477	21,640	20,842	19,670
(7) Percent Who Are Vested	75.0%	81.2%	88.7%	91.7%	93.9%

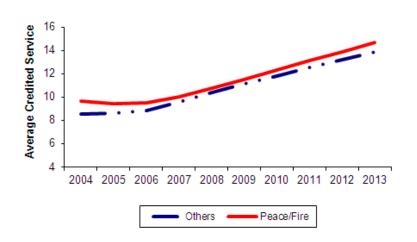
Section 5.1 (cont'd)

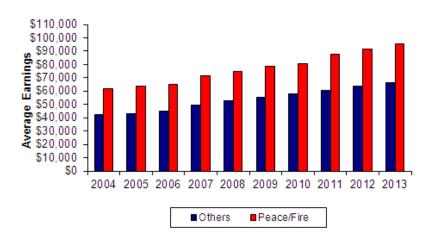
Summary of Members Included

Active Members as of June 30









Section 5.2

Age and Service Distribution of Active Members – Peace Officer/Firefighter

Annual Earnings by Age

Annual Earnings by Credited Service

		Total Annual	iual Annual			Years of		Total Annual		Average Annual
Age	Number	Earnings	Earnings			Service	Number	Earnings	E	arnings
0 – 19	0	\$ 0	\$	0		0	0	\$ 0	\$	0
20 - 24	0	0		0		1	1	46,635		46,635
25 - 29	34	2,843,996		83,647		2	3	167,427		55,809
30 - 34	196	18,164,432		92,676		3	6	478,840		79,807
35 - 39	356	33,909,483		95,251		4	14	1,039,985		74,285
40 - 44	493	48,364,462		98,102	•	0 – 4	24	1,732,887		72,204
45 – 49	404	39,591,350		97,998		5 – 9	491	43,066,404		87,712
50 - 54	317	30,643,961		96,669		10 – 14	676	62,965,054		93,144
55 – 59	185	16,746,332		90,521		15 – 19	489	49,586,886		101,405
60 - 64	66	6,134,849		92,952		20 - 24	264	27,879,521		105,604
65 - 69	13	1,075,474		82,729		25 - 29	88	8,865,631		100,746
70 - 74	1	59,280		59,280		30 - 34	28	2,842,501		101,518
75+	0	0		0		35 - 39	4	519,493		129,873
-						40+	1	75,242		75,242
Total	2,065	\$ 197,533,619	\$	95,658		Total	2,065	\$ 197,533,619	\$	95,658

Years of Credited Service by Age

_				Yea	rs of Service	ce				
Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+	Total
0 – 19	0	0	0	0	0	0	0	0	0	0
20 - 24	0	0	0	0	0	0	0	0	0	0
25 - 29	4	28	2	0	0	0	0	0	0	34
30 - 34	3	135	58	0	0	0	0	0	0	196
35 - 39	5	102	188	58	3	0	0	0	0	356
40 - 44	3	74	188	172	55	1	0	0	0	493
45 – 49	3	55	114	122	91	19	0	0	0	404
50 – 54	5	55	82	71	62	35	7	0	0	317
55 – 59	0	31	32	50	39	23	9	1	0	185
60 - 64	1	10	12	14	11	6	10	2	0	66
65 - 69	0	1	0	2	2	4	2	1	1	13
70 - 74	0	0	0	0	1	0	0	0	0	1
75+	0	0	0	0	0	0	0	0	0	0
Total	24	491	676	489	264	88	28	4	1	2,065

Total annual earnings are the annualized earnings for the fiscal year ending on the valuation date.

Section 5.2 (cont'd)

Age and Service Distribution of Active Members – Others

Annual Earnings by Age

Annual Earnings by Credited Service

		Total Annual	Average Annual	Years of			Total Annual		Average Annual
Age	Number	Earnings	Earnings	Service	Number		Earnings	E	arnings
0 – 19	0	\$ 0	\$ 0	0	49	\$	2,306,385	\$	47,069
20 - 24	1	30,642	30,642	1	96		4,514,513		47,026
25 - 29	218	11,987,715	54,990	2	160		7,458,323		46,615
30 - 34	979	60,061,448	61,350	3	273		13,122,123		48,066
35 - 39	1,526	100,629,468	65,943	4	347		17,141,128		49,398
40 - 44	2,075	138,709,024	66,848	0 – 4	925		44,542,472		48,154
45 – 49	2,897	190,676,566	65,819	5 – 9	5,666		331,620,156		58,528
50 - 54	4,241	282,198,314	66,541	10 – 14	5,423		353,015,329		65,096
55 – 59	4,048	272,202,100	67,244	15 – 19	3,119		219,492,152		70,373
60 - 64	2,124	143,280,325	67,458	20 - 24	2,196		171,764,876		78,217
65 - 69	614	42,177,201	68,693	25 - 29	1,135		93,936,766		82,764
70 - 74	133	8,928,292	67,130	30 - 34	340		30,365,771		89,311
75+	34	1,904,912	56,027	35 - 39	67		6,098,858		91,028
_			_	40+	19		1,949,627		102,612
Total	18,890	\$1,252,786,007	\$ 66,320	Total	18,890	\$ 1	1,252,786,007	\$	66,320

Years of Credited Service by Age

_	Years of Service									
Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+	Total
0 – 19	0	0	0	0	0	0	0	0	0	0
20 - 24	1	0	0	0	0	0	0	0	0	1
25 - 29	76	136	6	0	0	0	0	0	0	218
30 - 34	126	656	194	3	0	0	0	0	0	979
35 - 39	114	726	590	96	0	0	0	0	0	1,526
40 - 44	93	777	793	322	86	4	0	0	0	2,075
45 – 49	127	883	886	527	366	103	5	0	0	2,897
50 - 54	147	999	1,153	788	664	398	91	1	0	4,241
55 – 59	139	821	1,091	820	658	371	129	18	1	4,048
60 - 64	75	499	506	411	314	198	88	27	6	2,124
65 - 69	18	128	163	124	90	46	23	13	9	614
70 - 74	7	29	30	26	15	13	4	7	2	133
75+	2	12	11	2	3	2	0	1	1	34_
Total	925	5,666	5,423	3,119	2,196	1,135	340	67	19	18,890

Total annual earnings are the annualized earnings for the fiscal year ending on the valuation date.

Section 5.3

Member Data Reconciliation - Total PERS

Inactive Members

	Active Members	Due a Refund	With Deferred Benefits	Retired Members	Disabled Members	Bene- ficiaries	Total
As of June 30, 2012	22,730	13,552	6,294	25,384	255	2,901	71,116
Vested Terminations	(761)	(11)	773	(1)	0	0	0
Non-vested Terminations	(195)	217	(22)	0	0	0	0
Cash-outs	(124)	(368)	(77)	0	0	0	(569)
Disability Retirements	(29)	0	(6)	(1)	36	0	0
Age Retirements	(1,127)	(33)	(471)	1,666	(35)	N/A	0
Deaths With Beneficiary	(16)	0	(7)	(159)	(1)	183	0
Deaths Without Beneficiary	(35)	(42)	(12)	(303)	(4)	(83)	(479)
Retiree Medical Only	N/A	N/A	(2)	(1)	0	0	(3)
Data Corrections	(3)	(7)	(2)	0	0	(1)	(13)
Transfers Out	(27)	(7)	(7)	(1)	0	0	(42)
Rehires	500	(226)	(232)	(41)	(1)	0	0
Pick Ups	42	87	1	1	0	71	202
Net Change	(1,775)	(390)	(64)	1,160	(5)	170	(904)
New Entrants During the Year	0	0	N/A	N/A	N/A	N/A	0
As of June 30, 2013	20,955	13,162	6,230	26,544	250	3,071	70,212

Section 5.4

Schedule of Active Member Data – Peace Officer/Firefighter

Valuation Date	Number	Annual Earnings (000's) ¹	Annual Average Earnings	Percent Increase/ (Decrease) in Average Earnings	Number of Participating Employers
June 30, 2013	2,065	\$ 197,534	\$ 95,658	4.8%	159
June 30, 2012	2,164	197,544	91,286	4.1%	160
June 30, 2011	2,275	199,537	87,709	8.6%	160
June 30, 2010	2,388	192,895	80,777	2.8%	160
June 30, 2009	2,476	194,519	78,562	5.0%	160
June 30, 2008	2,549	190,729	74,825	4.9%	159
June 30, 2007	2,687	191,674	71,334	9.3%	160
June 30, 2006	2,785	181,830	65,289	2.5%	160
June 30, 2005	2,733	174,155	63,723	3.0%	160
June 30, 2004	2,705	167,317	61,855	4.9%	161

¹ Prior to June 30, 2006, unannualized earnings were used. Starting June 30, 2006, annualized earnings are used.



Schedule of Active Member Data - Others

Valuation Date	Number	Annual Earnings (000's) ¹	Annual Average Earnings	Percent Increase/ (Decrease) in Average Earnings	Number of Participating Employers
June 30, 2013	18,890	\$ 1,252,786	\$ 66,320	4.5%	159
June 30, 2012	20,566	1,305,337	63,471	4.6%	160
June 30, 2011	22,118	1,342,122	60,680	4.7%	160
June 30, 2010	24,054	1,393,803	57,945	4.5%	160
June 30, 2009	25,089	1,390,971	55,441	5.1%	160
June 30, 2008	26,301	1,387,117	52,740	6.9%	159
June 30, 2007	28,675	1,414,145	49,316	9.5%	160
June 30, 2006	31,286	1,408,863	45,032	4.2%	160
June 30, 2005	30,997	1,338,962	43,197	2.3%	160
June 30, 2004	30,907	1,305,670	42,245	1.8%	161

¹ Prior to June 30, 2006, unannualized earnings were used. Starting June 30, 2006, annualized earnings are used.



Summary of New Pension Benefit Recipients – Peace Officer/Firefighter

During the Year Ending June 30		2009	2010	2011	2012	2013
Service						_
(1) Number		80	86	83	78	85
(2) Average Age at Commencement		55.98	56.91	56.41	56.73	56.66
(3) Average Monthly Pension Benefit	\$	2,402	\$ 2,865	\$ 3,229	\$ 3,042	\$ 3,400
Survivor (including surviving spouse a	nd C	DROs)				
(1) Number		25	28	29	25	23
(2) Average Age at Commencement		58.42	57.70	57.19	62.97	61.25
(3) Average Monthly Pension Benefit	\$	1,337	\$ 1,521	\$ 1,438	\$ 1,541	\$ 1,868
Disability						
(1) Number		3	4	2	4	5
(2) Average Age at Commencement		44.87	50.61	50.53	48.14	45.41
(3) Average Monthly Pension Benefit	\$	1,461	\$ 2,631	\$ 2,354	\$ 3,923	\$ 3,000
Total						
(1) Number		108	118	114	107	113
(2) Average Age at Commencement		56.24	56.88	56.51	57.87	57.10
(3) Average Monthly Pension Benefit	\$	2,129	\$ 2,538	\$ 2,758	\$ 2,724	\$ 3,070

Summary of New Pension Benefit Recipients

Average Pension Benefit Payments - Peace Officer/Firefighter

Years of Credited Service

	rears of Credited Service							e				
	0 - 4	;	5 - 9	1	0 - 14	1	5 - 19	2	0 - 24	2	5 - 29	30+
Period 7/1/12 - 6/30/13: Average Monthly Pension Benefit Number of Recipients	\$ 0	\$	865 9	\$	1,779 8	\$	2,762 19	\$	3,793 31	\$	4,983 18	\$ 4,911 4
Period 7/1/11 - 6/30/12: Average Monthly Pension Benefit Number of Recipients	\$ 0 0	\$	1,159 13	\$	1,161 13	\$	3,142 12	\$	3,504 20	\$	4,673 17	\$ 5,079 7
Period 7/1/10 - 6/30/11: Average Monthly Pension Benefit Number of Recipients Period 7/1/09 - 6/30/10:	\$ 525 1	\$	880 8	\$	1,469 18	\$	2,666 10	\$	3,743 24	\$	4,806 16	\$ 5,661 8
Average Monthly Pension Benefit Number of Recipients Period 7/1/08 - 6/30/09:	\$ 1,902 4	\$	1,242 7	\$	1,459 16	\$	2,284 14	\$	3,179 28	\$	4,527 14	\$ 4,695 7
Average Monthly Pension Benefit Number of Recipients Period 7/1/07 - 6/30/08:	\$ 489 2	\$	820 17	\$	979 11	\$	2,466 18	\$	3,152 23	\$	4,213 7	\$ 4,894 5
Average Monthly Pension Benefit Number of Recipients Period 7/1/06 - 6/30/07:	\$ 1,522 6	\$	950 13	\$	1,171 13	\$	2,378 20	\$	3,179 32	\$	3,837 18	\$ 6,014 3
Average Monthly Pension Benefit Number of Recipients Period 7/1/05 - 6/30/06:	\$ 925 4	\$	858 13	\$	1,304 9	\$	2,385 26	\$	3,180 40	\$	4,198 12	\$ 4,942 4
Average Monthly Pension Benefit Number of Recipients Period 7/1/04 - 6/30/05:	\$ 1,556 5	\$	748 11	\$	1,280 9	\$	2,236 26	\$	2,931 29	\$	3,595 13	\$ 4,190 3
Average Monthly Pension Benefit Number of Recipients	\$ 277 1	\$	700 14	\$	1,209 20	\$	1,823 23	\$	2,852 66	\$	3,804 13	\$ 3,846 3

[&]quot;Average Monthly Pension Benefit" includes post-retirement pension adjustments and cost-of-living increases.



Section 5.5 (cont'd)

Summary of New Pension Benefit Recipients – Others

During the Year Ending June 30		2009	2010	2011	2012	2013
Service						
(1) Number		1,140	1,409	1,379	1,413	1,547
(2) Average Age at Commencement		58.10	58.74	59.19	59.68	59.94
(3) Average Monthly Pension Benefit	\$	1,698	\$ 1,879	\$ 2,061	\$ 2,031	\$ 2,141
Survivor (including surviving spouse and	QDR	Os)				
(1) Number		181	225	191	238	231
(2) Average Age at Commencement		64.33	65.35	66.04	65.26	66.07
(3) Average Monthly Pension Benefit	\$	866	\$ 986	\$ 1,103	\$ 1,005	\$ 1,025
Disability						
(1) Number		19	33	25	25	30
(2) Average Age at Commencement		51.79	52.43	51.10	53.32	52.43
(3) Average Monthly Pension Benefit	\$	1,264	\$ 1,662	\$ 1,550	\$ 1,553	\$ 1,809
Total						
(1) Number		1,340	1,667	1,595	1,676	1,808
(2) Average Age at Commencement		58.85	59.51	59.88	60.38	60.60
(3) Average Monthly Pension Benefit	\$	1,579	\$ 1,754	\$ 1,938	\$ 1,878	\$ 1,993

Summary of New Pension Benefit Recipients Average Pension Benefit Payments – Others

Years of Credited Service

	(0 - 4	5	5 - 9	10 - 1	14	15	5 - 19	20) - 24	2	5 - 29	30+
Period 7/1/12 - 6/30/13: Average Monthly Pension Benefit Number of Recipients	\$	414 59	\$	650 349		179 365	\$	1,925 257	\$	2,879 206	\$	4,356 209	\$ 5,208 132
Period 7/1/11 - 6/30/12: Average Monthly Pension Benefit Number of Recipients	\$	407 67	\$	610 351	\$ 1,1	147 314	\$	1,931 204	\$	2,805 208	\$	4,214 188	\$ 5,076 106
Period 7/1/10 - 6/30/11: Average Monthly Pension Benefit Number of Recipients	\$	409 73	\$	633 352		150 270	\$	1,876 227	\$	2,690 172	\$	4,294 205	\$ 5,226 105
Period 7/1/09 - 6/30/10: Average Monthly Pension Benefit Number of Recipients	\$	485 93	\$	579 367		116 273	\$	1,763 217	\$	2,674 218	\$	4,008 200	\$ 5,039 74
Period 7/1/08 - 6/30/09: Average Monthly Pension Benefit Number of Recipients	\$	534 71	\$	554 341		988 216	\$	1,708 171	\$	2,693 154	\$	3,718 159	\$ 4,723 47
Period 7/1/07 - 6/30/08: Average Monthly Pension Benefit Number of Recipients	\$	586 69	\$	548 315		044 249	\$	1,655 222	\$	2,668 172	\$	3,642 170	\$ 4,561 56
Period 7/1/06 - 6/30/07: Average Monthly Pension Benefit Number of Recipients	\$	1,026 97	\$	564 320		084 263	\$	1,773 207	\$	2,509 190	\$	3,699 183	\$ 4,132 44
Period 7/1/05 - 6/30/06: Average Monthly Pension Benefit Number of Recipients	\$	519 72	\$	536 319		950 271	\$	1,464 246	\$	2,212 197	\$	3,247 184	\$ 3,837 50
Period 7/1/04 - 6/30/05: Average Monthly Pension Benefit Number of Recipients	\$	423 40	\$	516 363	, , ,	008 266	\$	1,571 211	\$	2,249 213	\$	3,176 118	\$ 3,369 76

[&]quot;Average Monthly Benefit" includes post-retirement pension adjustments and cost-of-living increases.



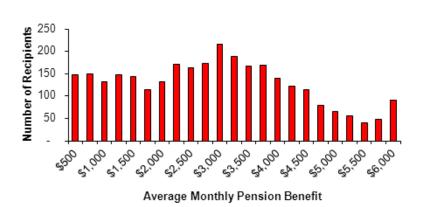
Section 5.6

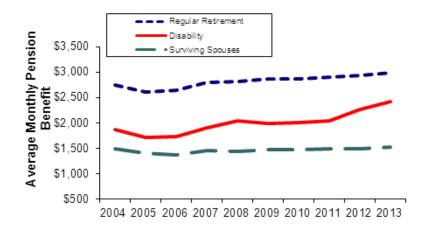
Summary of All Pension Benefit Recipients

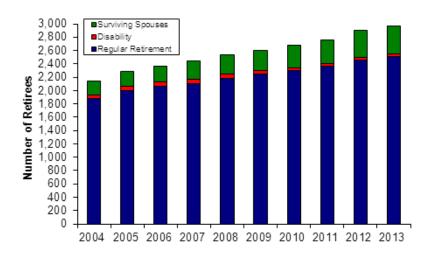
		Peace Officer/ Firefighter		Others
Service Retirements	_		_	
(1) Number, June 30, 2012		2,459		22,925
(2) Net Change During FY13		53		1,107
(3) Number, June 30, 2013		2,512		24,032
(3) Average Age At Commencement		52.38		57.19
(4) Average Current Age		65.24		68.01
(5) Average Monthly Pension Benefit	\$	2,990	\$	1,705
Survivors (including surviving spouses and QDROs)				
(1) Number, June 30, 2012		403		2,498
(2) Net Change During FY13		16		154
(3) Number, June 30, 2013		419		2,652
(4) Average Age At Commencement		53.60		60.26
(5) Average Current Age		64.16		69.72
(6) Average Monthly Pension Benefit	\$	1,528	\$	982
Disabilities				
(1) Number, June 30, 2012		34		221
(2) Net Change During FY13		2		(7)
(3) Number, June 30, 2013		36		214
(4) Average Age At Commencement		43.76		46.13
(5) Average Current Age		50.33		53.72
(6) Average Monthly Pension Benefit	\$	2,417	\$	1,592
Total				
(1) Number, June 30, 2012		2,896		25,644
(2) Net Change During FY13		71		1,254
(3) Number, June 30, 2013		2,967		26,898
(4) Average Age At Commencement		52.45		57.41
(5) Average Current Age		64.91		68.07
(6) Average Monthly Pension Benefit	\$	2,777	\$	1,633

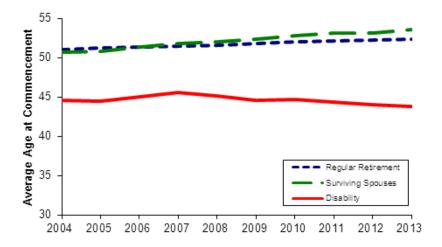
Summary of All Pension Benefit Recipients

Peace Officer/Firefighter



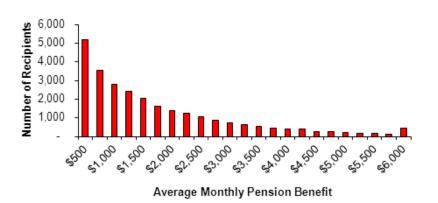


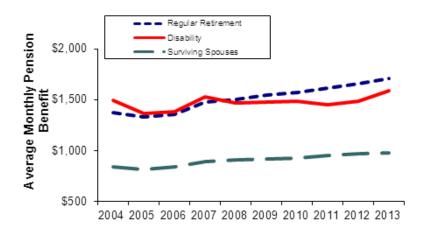


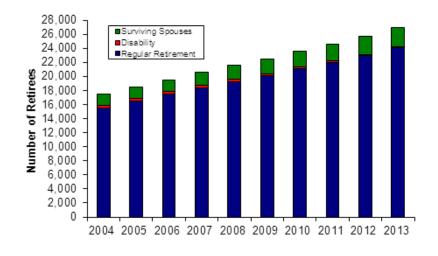


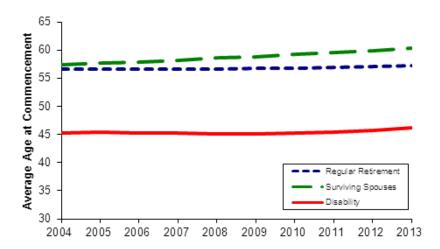
Summary of All Pension Benefit Recipients

Others









Summary of All Pension Benefit Recipients - Peace Officer/Firefighter

Annual Pension Benefit by Age

Annual Pension Benefit by Years Since Commencement

		Total	Average			Years			Total		Average
		Annual		Annual		Since			Annual		Annual
Age	Number	Benefit		Benefit		Commencement	Number Benefit		Benefit		Benefit
0 – 19	0	\$ 0	\$	0	•	0	112	\$	4,121,964	\$	36,803
20 - 24	0	0		0		1	109		3,484,384		31,967
25 - 29	0	0		0		2	114		3,732,006		32,737
30 - 34	2	69,163		34,582		3	115		3,672,376		31,934
35 - 39	4	138,393		34,598		4	121		3,214,918		26,570
40 - 44	13	361,693		27,823		0 – 4	571		18,225,648		31,919
45 – 49	52	1,707,253		32,832		5 – 9	684		20,472,080		29,930
50 – 54	203	7,076,305		34,859		10 – 14	716		22,891,491		31,971
55 – 59	537	18,461,943		34,380		15 – 19	491		18,015,307		36,691
60 - 64	750	24,903,352		33,204		20 - 24	221		7,362,657		33,315
65 - 69	672	22,245,774		33,104		25 - 29	203		9,078,996		44,724
70 – 74	407	13,234,660		32,518		30 - 34	58		2,164,362		37,317
75+	327	10,647,943		32,563		35 - 39	20		592,000		29,600
				_		40+	3		43,938		14,646
Total	2,967	\$ 98,846,479	\$	33,315		Total	2,967	\$	98,846,479	\$	33,315

Years Since Benefit Commencement by Age

				Years Sir	ce Comm	encement				
Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+	Total
0 – 19	0	0	0	0	0	0	0	0	0	0
20 - 24	0	0	0	0	0	0	0	0	0	0
25 - 29	0	0	0	0	0	0	0	0	0	0
30 - 34	1	1	0	0	0	0	0	0	0	2
35 - 39	2	1	1	0	0	0	0	0	0	4
40 - 44	8	4	1	0	0	0	0	0	0	13
45 – 49	38	9	2	1	2	0	0	0	0	52
50 – 54	88	85	28	2	0	0	0	0	0	203
55 – 59	164	181	157	30	3	1	1	0	0	537
60 - 64	173	216	228	112	15	4	1	1	0	750
65 - 69	61	134	195	173	64	37	5	3	0	672
70 – 74	16	40	79	133	75	58	4	1	1	407
75+	20	13	25	40	62	103	47	15	2	327
Total	571	684	716	491	221	203	58	20	3	2.967

Summary of All Benefit Recipients – Others

Annual Pension Benefit by Age

Annual Pension Benefit by Years Since Commencement

		Total	Average				Total	Average
		Annual	Annual		Years		Annual	Annual
		Pension	Pension		Since		Pension	Pension
Age	Number	Benefit	Benefit	_	Commencement Number		Benefit	Benefit
0 – 19	0	\$ 0	\$ 0	-	0	1,749	\$ 41,884,171	\$ 23,947
20 - 24	1	33,311	33,311		1	1,650	37,217,110	22,556
25 - 29	0	0	0		2	1,574	36,378,325	23,112
30 - 34	3	42,677	14,226		3	1,520	32,563,375	21,423
35 - 39	6	74,871	12,479		4	1,343	25,949,450	19,322
40 - 44	23	289,609	12,592		0 – 4	7,836	173,992,431	22,204
45 – 49	82	1,193,858	14,559		5 – 9	6,672	132,734,368	19,894
50 – 54	604	14,280,529	23,643		10 – 14	5,131	94,927,941	18,501
55 – 59	3,458	82,424,885	23,836		15 – 19	3,342	60,947,980	18,237
60 - 64	6,920	143,421,090	20,726		20 – 24	1,924	29,557,182	15,362
65 - 69	6,115	117,495,557	19,214		25 – 29	1,444	26,503,662	18,354
70 – 74	4,259	76,349,433	17,927		30 - 34	407	6,383,966	15,685
75+	5,427	91,534,248	16,866		35 - 39	131	1,863,170	14,223
			<u> </u>	_	40+	11	229,368	20,852
Total	26,898	\$527,140,068	\$ 19,598		Total	26,898	\$527,140,068	\$ 19,598

Years Since Benefit Commencement by Age

			`	Years Sind	ce Comme	encement				
Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+	Total
0 – 19	0	0	0	0	0	0	0	0	0	0
20 - 24	0	1	0	0	0	0	0	0	0	1
25 - 29	0	0	0	0	0	0	0	0	0	0
30 - 34	2	1	0	0	0	0	0	0	0	3
35 - 39	3	3	0	0	0	0	0	0	0	6
40 - 44	13	7	3	0	0	0	0	0	0	23
45 – 49	40	25	13	3	1	0	0	0	0	82
50 – 54	482	69	30	14	8	1	0	0	0	604
55 – 59	2,535	814	69	22	13	3	2	0	0	3,458
60 - 64	2,878	2,890	1,055	75	12	7	2	1	0	6,920
65 - 69	1,155	1,825	2,262	818	38	12	4	1	0	6,115
70 – 74	413	695	1,055	1,362	600	116	13	3	2	4,259
75+	315	342	644	1,048	1,252	1,305	386	126	9	5,427
Total	7.836	6.672	5.131	3.342	1.924	1.444	407	131	11	26.898

Section 5.7

Schedule of Pension Benefit Recipients by Type of Pension Benefit and Option Elected – Peace Officer/Firefighter

	Amou	nt of									
Moi	nthly	Pension	Number of	Type of	Pension Ber	nefit		Optio	on Selecte	ed	
	Ben	efit	Recipients	1	2	3	1	2	3	4	5
\$	1 -	\$ 300	53	30	23	0	28	11	1	3	10
30)1 –	600	171	110	60	1	84	40	25	9	13
60)1 –	900	156	89	64	3	89	39	8	12	8
90)1 –	1,200	170	115	54	1	89	38	19	13	11
1,20)1 –	1,500	172	124	46	2	93	39	21	7	12
1,50)1 –	1,800	135	108	26	1	55	41	20	12	7
1,80)1 –	2,100	168	129	35	4	67	51	30	13	7
2,10)1 –	2,400	196	153	35	8	83	67	24	14	8
2,40)1 –	2,700	218	197	18	3	69	88	33	18	10
2,70)1 –	3,000	250	230	18	2	69	110	44	16	11
3,00)1 –	3,300	215	196	14	5	60	97	31	15	12
3,30)1 –	3,600	202	189	11	2	55	104	25	14	4
3,60)1 –	3,900	192	187	3	2	54	89	24	16	9
3,90)1 –	4,200	158	155	2	1	40	80	21	13	4
Over	\$ 4,20	00	511	500	10	1	108	281	60	46	16
Tota	ls		2,967	2,512	419	36	1,043	1,175	386	221	142

Type of Pension Benefit

- 1. Regular retirement
- 2. Survivor payment
- 3. Disability

Option Selected

- 1. Whole Life Annuity
- 2. 75% Joint and Contingent Annuity
- 3. 50% Joint and Contingent Annuity
- 4. 66 2/3% Joint and Survivor Annuity
- 5. Level Income Option

Section 5.7 (cont'd)

Schedule of Pension Benefit Recipients by Type of Pension Benefit and Option Elected – Others

Amo			Number of	Turno of	Donaion B	anafit		Onti	an Calasi	lod.	
Monthl	-		Number of	1 ype of	Pension B			•	on Select		
 Be	ene	fit	Recipients	1	2	3	1	2	3	4	5
\$ 1 -	_	\$ 300	1,985	1,554	429	2	871	388	281	61	384
301 -	_	600	4,735	4,075	636	24	2,328	1,181	765	260	201
601 -	_	900	3,739	3,245	472	22	1,806	949	578	227	179
901 -	_	1,200	3,029	2,663	342	24	1,413	785	528	170	133
1,201 -	_	1,500	2,489	2,206	251	32	1,126	711	412	134	106
1,501 -	_	1,800	1,923	1,730	154	39	806	565	340	114	98
1,801 -	_	2,100	1,583	1,447	115	21	658	458	273	114	80
2,101	_	2,400	1,352	1,256	73	23	522	421	257	92	60
2,401	_	2,700	1,116	1,042	63	11	445	375	211	42	43
2,701	_	3,000	890	851	35	4	337	294	165	54	40
3,001	_	3,300	754	720	30	4	259	288	140	35	32
3,301	_	3,600	613	597	15	1	193	244	114	34	28
3,601	_	3,900	515	499	15	1	183	186	88	40	18
3,901 -	_	4,200	471	466	5	0	146	191	102	20	12
 Over \$ 4,	,200)	1,704	1,681	17	6	505	700	350	101	48
 Totals			26,898	24,032	2,652	214	11,598	7,736	4,604	1,498	1,462

Type of Pension Benefit

- 1. Regular retirement
- 2. Survivor payment
- 3. Disability

Option Selected

- 1. Whole Life Annuity
- 2. 75% Joint and Contingent Annuity
- 3. 50% Joint and Contingent Annuity
- 4. 66 2/3% Joint and Survivor Annuity
- 5. Level Income Option

Section 5.8

Pension Benefit Recipients Added to and Removed from Rolls – Peace Officer/Firefighter

	Ad	ded to Rolls	Remove	ed from Rolls	Rolls -	- End of Year	Percent	
Year Ended	No. ¹	Annual Pension Benefits ¹	No. ¹	Annual Pension Benefits ¹	No.	Annual Pension Benefits	Increase in Annual Pension Benefits	Average Annual Pension Benefit
June 30, 2013	113	\$ 4,162,920	42	\$ 240,775	2,967	\$ 98,846,479	4.1%	\$ 33,315
June 30, 2012	179	5,246,271	41	(177,568)	2,896	94,924,334	6.1%	32,778
June 30, 2011	114	3,772,720	33	116,090	2,758	89,500,495	4.3%	32,451
June 30, 2010	118	3,593,724	46	1,413,071	2,677	85,843,865	2.6%	32,067
June 30, 2009	108	2,759,299	39	(518,134)	2,605	83,663,212	4.1%	32,116
June 30, 2008	125	3,556,519	28	191,073	2,536	80,385,779	4.4%	31,698
June 30, 2007	138	3,930,564	67	(2,546,491)	2,439	77,020,333	9.2%	31,579
June 30, 2006	118	3,289,370	30	209,287	2,368	70,543,278	4.6%	29,790
June 30, 2005	145	3,904,737	5	3,332,357	2,280	67,463,195	8.9%	29,589
June 30, 2004	174	6,388,270	25	904,310	2,140	66,890,815	7.2%	31,257

¹ Numbers are estimated, and include other internal transfers.



Section 5.8 (cont'd)

Pension Benefit Recipients Added to and Removed from Rolls - Others

	Ad	ded to Rolls	Rem	oved from Rolls	Rolls -	- End of Year	- Percent	
Year Ended	No. ¹	Annual Pension Benefits ¹	No.¹	Annual Pension Benefits ¹	No.	Annual Pension Benefits	Increase in Annual Pension Benefits	Average Annual Pension Benefit
June 30, 2013	1,808	\$ 43,247,667	554	\$ 4,861,626	26,898	\$527,140,068	7.9%	\$ 19,598
June 30, 2012	1,679	37,855,250	636	5,344,239	25,644	488,754,027	7.1%	19,059
June 30, 2011	1,595	37,100,217	554	6,897,899	24,601	456,243,016	7.1%	18,546
June 30, 2010	1,667	35,089,579	517	8,712,630	23,560	426,040,698	6.6%	18,083
June 30, 2009	1,340	25,402,811	476	28,773	22,410	399,663,749	6.8%	17,834
June 30, 2008	1,454	28,498,471	466	5,349,935	21,546	374,289,711	6.6%	17,372
June 30, 2007	1,479	28,985,748	454	(14,280,390)	20,558	351,141,175	14.1%	17,081
June 30, 2006	1,494	26,193,750	384	2,265,651	19,533	307,875,037	8.4%	15,762
June 30, 2005	1,287	22,966,842	296	17,019,851	18,423	283,946,938	2.1%	15,413
June 30, 2004	1,346	27,617,383	354	6,823,010	17,432	277,999,947	8.1%	15,948

¹ Numbers are estimated, and include other internal transfers.



Section 6

Basis of the Actuarial Valuation

Section 6.1

Summary of Plan Provisions and Changes in Plan Provisions

(1) Effective Date

January 1, 1961, with amendments through June 30, 2008. Chapter 82, 1986 Session Laws of Alaska, created a two-tier retirement system. Members who were first hired under the PERS before July 1, 1986 (Tier 1) are eligible for different benefits than members hired after June 30, 1986 (Tier 2). Chapter 4, 1996 Session Laws of Alaska created a third tier for members who were first hired after June 30, 1996 (Tier 3). 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 Public Employees' 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 PERS funds.

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

(3) Employers Included

Currently there are 159 employers participating in the PERS, including the State of Alaska and 158 political subdivisions and public organizations.

(4) Membership

PERS membership is mandatory for all permanent full-time and part-time employees of the State of Alaska and participating political subdivisions and public organizations, unless they are specifically excluded by Alaska Statute or employer participation agreements. Employees participating in the University of Alaska's Optional Retirement Plan or other retirement plans funded by the State are not covered by the PERS. Elected officials may waive PERS membership.

Certain members of the Alaska Teachers' Retirement System (TRS) are eligible for PERS retirement benefits for their concurrent elected public official service with municipalities. In addition, employees who work half-time in the PERS and TRS simultaneously are eligible for half-time PERS and TRS 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.



Summary of Plan Provisions and Changes in Plan Provisions

(5) Credited Service

Permanent employees who work at least 30 hours a week earn full-time credit; part-time employees working between 15 and 30 hours a week earn partial credit based upon the number of hours worked. Members receiving PERS occupational disability benefits continue to earn PERS credit while disabled. Survivors who are receiving occupational death benefits continue to earn PERS service credit while occupational survivor benefits are being paid.

Members may claim other types of service, including:

- part-time State of Alaska service rendered after December 31, 1960, and before January 1, 1976;
- service with the State, former Territory of Alaska, or U.S. Government in Alaska before January 1, 1961;
- past Peace Officer, correctional officer, fire fighter, and special officer service after January 1, 1961;
- military service (not more than five years may be claimed);
- temporary service after December 31, 1960;
- elected official service before January 1, 1981;
- Alaska Bureau of Indian Affairs service;
- past service rendered by employees who worked half-time in the PERS and Teachers'
 Retirement System (TRS) simultaneously;
- leave without pay service after June 13, 1987, while receiving Workers' Compensation;
- Village Public Safety Officer service; and
- service as a temporary employee of the legislature before July 1, 1979, but this service must have been claimed no later than July 1, 2003, or by the date of retirement, if sooner (not more than 10 years may be claimed).

Except for service before January 1, 1961, with the State, former Territory of Alaska, or U.S. Government in Alaska, contributions are required for all past service.



Summary of Plan Provisions and Changes in Plan Provisions

Past employment with participating political subdivisions that occurred before the employers joined the PERS is creditable if the employers agree to pay the required contributions.

At the election of certain PERS members, certain service may be credited in the same fashion as members in the State of Alaska Teachers' Retirement System (TRS).

Members employed as dispatchers or within a state correctional facility may, at retirement, elect to convert their dispatcher or correctional facility service from "all other" service to Peace Officer/Firefighter service and retire under the 20 year retirement option. Members pay the full actuarial cost of conversion.

(6) Employer Contributions

PERS 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.

Pursuant to AS 39.35.255 effective July 1, 2008, each PERS employer will pay a simple uniform contribution rate of 22% of member payroll.

(7) Additional State Contributions

Pursuant to AS 39.35.280 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 (22% of total DB and DCR payroll, less employer contributions to DCR) will be sufficient to pay the total contribution rate adopted by The Alaska Retirement Management Board.

(8) Member Contributions

Mandatory Contributions: Peace Officer/Firefighter members are required to contribute 7.5% of their compensation; all Others contribute 6.75%. Those all Others who have elected to have their service calculated under the Teachers' Retirement System rules contribute 9.76% of their compensation. Members' contributions are deducted from gross wages 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.



Summary of Plan Provisions and Changes in Plan Provisions

<u>Voluntary Contributions:</u> Members may voluntarily contribute up to 5% of their salary on an after-tax basis. Voluntary contributions are recorded in a separate account and are payable to the:

- (a) member in lump sum payment upon termination of employment;
- (b) member's beneficiary if the member dies; or
- (c) member in a lump sum, life annuity, or payments over a designated period of time when the member retires.

<u>Interest:</u> Members' contributions earn 4.5% interest, compounded semiannually on June 30 and December 31.

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

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

(9) Retirement Benefits

Eligibility:

- (a) Members, including deferred vested members, are eligible for normal retirement at age 55 or early retirement at age 50 if they were hired before July 1, 1986 (Tier 1), and 60 or early retirement at age 55 if they were hired after July 1, 1986 (Tiers 2 & 3). Additionally, they must have at least:
 - (i) five years of paid-up PERS service;
 - (ii) 60 days of paid-up PERS service as employees of the legislature during each of five legislative sessions and they were first hired by the legislature before May 30, 1987;

Summary of Plan Provisions and Changes in Plan Provisions

- 80 days of paid-up PERS service as employees of the legislature during each of five legislative sessions and they were first hired by the legislature after May 29, 1987;
- (iv) two years of paid-up PERS service and they are vested in the Teachers' Retirement System; or
- (v) two years of paid-up PERS service and a minimum three years of TRS service to qualify for a public service benefit.
- (b) Members may retire at any age when they have:
 - (i) 20 paid-up years of PERS Peace Officer/Firefighter service; or
 - (ii) 30 paid-up years of PERS "all other" or "elected official" service.

<u>Benefit Type</u>: 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 under the "20 and out" or "30 and out" provisions. Members may receive early, actuarially reduced benefits when they reach early retirement age and complete the service required.

Members may elect an early retirement or a joint and survivor option. Members who entered the PERS prior to July 1, 1996 may also select a 66-2/3 last survivor option and a level income option. Under these options and early retirement, benefits are actuarially adjusted so that members receive the actuarial equivalents of their normal benefit amounts.

Benefit Calculations: Retirement benefits are calculated by multiplying the average monthly compensation (AMC) times credited PERS service times the percentage multiplier. The AMC is determined by averaging the salaries earned during the five highest (three highest for Peace Officer/Firefighter members or members hired prior to July 1, 1996) consecutive payroll years. Members must earn at least 115 days of credit in the last year worked to include it in the AMC calculation. The PERS pays a minimum benefit of \$25.00 per month for each year of service when the calculated benefit is less.

The percentage multipliers for Peace Officer/Firefighter members are 2% for the first ten years of service and 2.5% for all service over 10 years.

The percentage multipliers for all Others are 2% for the first ten years, 2.25% for the next ten years, and 2.5% for all remaining service earned on or after July 1, 1986. All service before that date is calculated at 2%.



Summary of Plan Provisions and Changes in Plan Provisions

<u>Indebtedness</u>: Members who terminate and refund their PERS contributions are not eligible to retire, unless they return to PERS employment and pay back their refunds plus interest or accrue additional service which qualifies them for retirement. PERS refunds must be paid in full if the corresponding service is to count toward the minimum service requirements for retirement. Refunded PERS service is included in total service for the purpose of calculating retirement benefits. However, if a member is otherwise eligible to retire, 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

Retirement and retiree healthcare benefits are suspended while retired members are reemployed under the PERS. During reemployment, members earn additional PERS service and contributions are withheld from their wages. A member who retired with a normal retirement benefit can elect to waive payment of PERS contributions. The waiver allows the member to continue receiving the retirement benefit during the period of reemployment. Members who elect the waiver option do not earn additional PERS service. The Waiver Option first became effective July 1, 2005 and applies to reemployment periods after that date. The Waiver Option is not available to members who retired early or under the Retirement Incentive Programs (RIPs). The Waiver Option is no longer available after June 30, 2009.

Members retired under the Retirement Incentive Programs (RIPs) who return to employment under the PERS, Teachers' Retirement System (TRS), or the University of Alaska's Optional Retirement Plan will:

- (a) forfeit the three years of incentive credits that they received;
- (b) owe the PERS 150% of the benefits that they received for state and political subdivision members, and 110% for school district employees, under the 1996-2000 RIP, which may include costs for health insurance, excluding amounts that they paid to participate for the 1986 and 1989 RIPs. Under prior RIPs, the penalty is 110% of the benefits received; and
- (c) be charged 7% interest from the date that they are reemployed until their indebtedness is paid in full or they retire again. If the indebtedness is not completely paid, future benefits will be actuarially reduced for life.

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

Summary of Plan Provisions and Changes in Plan Provisions

(11) Postemployment Healthcare Benefits

Major medical benefits are provided to retirees and their surviving spouses by the PERS for all employees hired before July 1, 1986 (Tier 1) and disabled retirees. Employees hired after June 30, 1986 (Tier 2) and their surviving spouses with five years of credited service (or ten years of credited service for those first hired after June 30, 1996 (Tier 3)) must pay the full monthly premium if they are under age sixty and will receive benefits paid by the PERS if they are over age sixty. Tier 3 Members with between five and ten years of credited service must pay the full monthly premium regardless of their age. Tier 2 and Tier 3 Members with less than five years of credited service are not eligible for postemployment healthcare benefits. Tier 2 Members who are receiving a conditional benefit and are age eligible are eligible for postemployment healthcare benefits. In addition, Peace Officers and their surviving spouses with twenty-five years of Peace Officer membership service receive benefits paid by the PERS, regardless of their age or date of hire. Peace Officers / Firefighters who are disabled between 20 and 25 years must pay the full monthly premium.

(12) Disability Benefits

Monthly disability benefits are paid to permanently disabled members until they die, recover or become eligible for normal retirement. Members are appointed to normal retirement on the first of the month after they become eligible.

Occupational Disability: Members are not required to satisfy age or service requirements to be eligible for occupational disability. Monthly benefits are equal to 40% of their gross monthly compensation on the date of their disability. Members on occupational disability continue to earn PERS service until they become eligible for normal retirement. Peace Officer/Firefighter members may elect to retain the disability benefit formula for the calculation of their normal retirement benefits.

<u>Nonoccupational Disability:</u> Members must be vested (five paid-up years of PERS service) to be eligible for nonoccupational disability benefits. Monthly benefits are calculated based on the member's average monthly compensation and PERS service on the date of termination from employment because of disability. Members do not earn PERS service while on nonoccupational disability.

(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 occupational and nonoccupational death provisions, the designated beneficiary receives the lump sum benefit described below.



Summary of Plan Provisions and Changes in Plan Provisions

Occupational Death: When an active member (vested or nonvested) dies from occupational causes, a monthly survivor's pension may be paid to the spouse. The pension equals 40% of the member's gross monthly compensation 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 salary on the date of death and service, including service accumulated from the date of the member's death to the normal retirement date. Survivors of Peace Officer/Firefighter members receive the greater of 50% of the member's gross monthly compensation on the date of death or disability, or 75% of the member's monthly normal retirement benefit (including service projected to Normal Retirement). If the member is unmarried with no children, a refund of contributions is payable to the estate.

<u>Death after Occupational Disability:</u> When a member dies while occupationally disabled, benefits are paid as described above in Occupational Death.

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. The monthly benefit is calculated on the member's average monthly compensation and PERS service at the time of termination or death.

<u>Lump Sum Nonoccupational Death Benefit:</u> Upon the death of a member who has less than one year of service, the designated beneficiary receives the member's contribution account, which includes mandatory and voluntary contributions, indebtedness payments, and interest earned. If the member has more than one year of PERS service or is vested, the beneficiary also receives \$1,000 and \$100 for each year of PERS service.

<u>Death After Retirement:</u> When a retired member dies, the designated beneficiary receives the member's contribution account, less any benefits already paid and the member's last benefit check. If the member selected a survivor option at retirement, the eligible spouse receives continuing, lifetime monthly benefits.

(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 PERS 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 has been receiving benefits for at least five years.



Section 6.1 (cont'd)

Summary of Plan Provisions and Changes in Plan Provisions

Ad hoc PRPAs, up to a maximum of 4%, may be granted to eligible recipients who first entered the PERS before July 1, 1986 (Tier 1) 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.

(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 or \$50, whichever is more. The following benefit recipients are eligible:

- (a) members who first entered the PERS before July 1, 1986 (Tier 1) and their survivors;
- (b) members who first entered the PERS after June 30, 1986 (Tiers 2 & 3) and their survivors if they are at least age 65; and
- (c) all disabled members.

Changes in Benefit Provisions Since the Prior Valuation

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

Section 6.2

Description of Actuarial Methods and Valuation Procedures

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.

(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 dollar amount. The initial unfunded accrued liability was established on June 30, 2002 and amortized over a closed 25-year period. Any changes in the unfunded accrued liability established after June 30, 2002 due to changes in plan provisions, actuarial methods or assumptions, or actuarial experience are amortized over a 25-year period from the date established. 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.

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.



Section 6.2 (cont'd)

Description of Actuarial Methods and Valuation Procedures

(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 fair value of assets.

Changes in Methods Since the Prior Valuation

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

(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 Public Employees' Retirement System postemployment healthcare plan. Note that methodology reflects the results of our annual experience rate update for the period July 1, 2012 to June 30, 2013.

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 HealthSmart management level reporting for fiscal 2010 through 2013 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 for fiscal 2010 through 2012. Fiscal 2013 management level reporting includes the percentage of claims attributable to both groups but does not address enrollment by group. DB Tier retiree census supplied by the Division was split into under and over age 65 counts as a proxy for fiscal 2013 Medicare and non-Medicare enrollment. Historical claim level reporting and estimated impacts of Medicare coordination and plan design were used to augment cost data by Medicare status.



Description of Actuarial Methods and Valuation Procedures

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 HealthSmart, 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 and/or re-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 incurred 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 deemed incurred claim data from HealthSmart managemnte reports to be complete for fiscal 2010, 2011 and 2012. Fiscal 2013 medical claim data was completed using a factor of 0.82; fiscal 2013 prescription claim data was completed using a factor of 0.90 – these factors were derived from historic completion patterns for AlaskaCare retiree claims. Incurred claim cost rates are projected forward to the valuation year using a blend of Alaska plan-specific trend and national trend rates over the same period, with Alaska experience receiving 75% weight, national trend 25%. These weighted trend factors for this purpose for the current valuation are as follows:

Experience Period	_	d National Average m Experience Period tion Year	Weighting Factors
	Medical	Prescription	
FY2010 to FY2011	13.0%	9.6%	10%
FY2011 to FY2012	8.1%	4.5%	20%
FY2012 to FY2013	8.3%	5.1%	40%
FY2013 to FY2014	8.9%	7.1%	30%

Section 6.2 (cont'd)

Description of Actuarial Methods and Valuation Procedures

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 other than noted fees 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 disclosure, Buck estimated the year in which the tax would potentially affect Alaska to be sufficiently far into the future to produce a minimal impact. Buck determined the impact to be immaterial based on a blend of pre-Medicare and Medicare retirees.

Patient-centered outcomes research fees and transitional reinsurance fees are included in the admin fees.

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.

Description of Actuarial Methods and Valuation Procedures

June 30, 2013 Valuation - FY 2014 Claims Cost Rates

				Medical		Prescription Drugs						
					Medicare B					N	Medicare B	
	P	re-Medicare	Me	edicare A&B	Only	F	Pre-Medicare	M	edicare A&B		Only	Total
Fiscal 2010 Incurred Claims	\$	233,601,103	\$	60,082,942	\$ 1,421,948	\$	59,287,225	\$	69,463,204	\$	394,011	\$ 424,250,433
Membership		32,026		27,915	156		32,026		27,915		156	60,097
Paid Claims Cost Rate	\$	7,294	\$	2,152	\$ 9,115	\$	1,851	\$	2,488	\$	2,526	\$ 7,059
Trend to FY2014		1.441		1.441	1.441		1.289		1.289		1.289	
FY 2014 Paid Cost Rate	\$	10,514	\$	3,102	\$ 13,138	\$	2,387	\$	3,208	\$	3,256	\$ 9,848
Improved Provider Contracting Factor		0.970		0.970	0.970		0.993		0.993		0.993	
FY 2014 Incurred Cost Rate	\$	10,200	\$	3,010	\$ 12,747	\$	2,370	\$	3,186	\$	3,233	\$ 9,618
Fiscal 2011 Incurred Claims	\$	232,732,266	\$	55,615,233	\$ 849,185	\$	48,403,436	\$	85,633,319	\$	393,948	\$ 423,627,387
Membership		31,362		29,997	138		31,362		29,997		138	61,497
Paid Claims Cost Rate	\$	7,421	\$	1,854	\$ 6,154	\$	1,543	\$	2,855	\$	2,855	\$ 6,889
Trend to FY2014		1.275		1.275	1.275		1.176		1.176		1.176	
FY 2014 Paid Cost Rate	\$	9,463	\$	2,364	\$ 7,847	\$	1,816	\$	3,358	\$	3,358	\$ 8,568
Improved Provider Contracting Factor		0.970		0.970	0.970		0.993		0.993		0.993	
FY 2014 Incurred Cost Rate	\$	9,181	\$	2,294	\$ 7,613	\$	1,803	\$	3,335	\$	3,335	\$ 8,372
Fiscal 2012 Incurred Claims	\$	233,633,045	\$	71,443,709	\$ 1,586,219	\$	50,486,235	\$	95,369,339	\$	589,833	\$ 453,108,380
Membership		29,500		33,631	208		29,500		33,631		208	63,339
Paid Claims Cost Rate	\$	7,920	\$	2,124	\$ 7,626	\$	1,711	\$	2,836	\$	2,836	\$ 7,154
Trend to FY2014		1.180		1.180	1.180		1.126		1.126		1.126	
FY 2014 Paid Cost Rate	\$	9,343	\$	2,506	\$ 8,997	\$	1,927	\$	3,193	\$	3,193	\$ 8,315
Improved Provider Contracting Factor		0.970		0.970	0.970		0.993		0.993		0.993	
FY 2014 Incurred Cost Rate	\$	9,065	\$	2,431	\$ 8,728	\$	1,913	\$	3,170	\$	3,170	\$ 8,126

Description of Actuarial Methods and Valuation Procedures

June 30, 2013 Valuation - FY 2014 Claims Cost Rates

				Medical					Pre	scription Drugs	3		
					ı	Medicare B					ı	Medicare B	
	P	re-Medicare	Me	edicare A&B		Only	Р	re-Medicare	V	ledicare A&B		Only	Total
Fiscal 2013 Incurred Claims	\$	245,965,030	\$	75,299,373	\$	1,948,514	\$	57,036,466	\$	107,792,216	\$	616,977	\$ 488,658,576
Membership		27,036		37,912		217		27,036		37,912		217	65,165
Paid Claims Cost Rate	\$	9,098	\$	1,986	\$	8,979	\$	2,110	\$	2,843	\$	2,843	\$ 7,499
Trend to FY2014		1.089		1.089		1.089		1.071		1.071		1.071	
FY 2014 Paid Cost Rate	\$	9,911	\$	2,164	\$	9,783	\$	2,259	\$	3,045	\$	3,045	\$ 8,123
Improved Provider Contracting Factor		0.970		0.970		0.970		0.993		0.993		0.993	
FY 2014 Incurred Cost Rate	\$	9,616	\$	2,099	\$	9,491	\$	2,244	\$	3,024	\$	3,024	\$ 7,943
Weighted Average 7/1/2013-6/30/2014 Incur	red	Claims Cost Ra	ates:										
At average age	\$	9,367	\$	2,362	\$	9,136	\$	2,036	\$	3,161	\$	3,166	\$ 8,362
At age 65	\$	11,125	\$	1,726	\$	6,676	\$	2,621	\$	2,621	\$	2,621	\$ 8,208

Description of Actuarial Methods and Valuation Procedures

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, 2013 through June 30, 2014

Age	Medical and Medicare Parts A & B	Medical and Medicare Part B Only	Prescription Drug	Medicare Retiree Drug Subsidy
45	\$ 6,161	\$ 6,161	\$ 1,383	\$ 0
50	6,971	6,971	1,642	0
55	7,887	7,887	1,950	0
60	9,367	9,367	2,261	0
65	1,726	6,676	2,621	502
70	2,100	8,122	2,824	541
75	2,493	9,645	3,012	577
80	2,686	10,390	3,088	591

Section 6.3

Summary of Actuarial Assumptions and Changes in Assumptions

The demographic and economic assumptions used in the June 30, 2013 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.

Investment Return / Discount Rate	8.00% per year (geometric), compounded annually, net of expenses.
Salary Scale	Inflation -3.12% per year.
	Productivity – 0.50% per year.
	See Table 1 for salary scale rates
Payroll Growth	3.62% per year. (Inflation + Productivity)
Total Inflation	Total inflation as measured by the Consumer Price Index for urban and clerical workers for Anchorage is assumed to increase 3.12% annually.
Mortality (Pre-termination)*	Peace Officer/Firefighter: Based upon the 2005-2009 actual mortality experience (see Table 2). 1994 Group Annuity Mortality (GAM) Table, sex distinct, 1994 Base Year without margin projected to 2013 using Projection Scale AA, 80% of the male table for males and 60% of the female table for females. Others: Based upon the 2005-2009 actual mortality experience (see Table 3). 1994 GAM Table, sex distinct, 1994 Base Year without margin projected to 2013 using Projection Scale AA, 75% of the male table for males and 55% of the female table for females. Deaths are assumed to be occupational 75% of the time for Peace Officer/Firefighter, 55% of the time for Others.
Mortality (Post-termination)*	1994 GAM Table, sex-distinct, 1994 Base Year without margin projected to 2013 using Projection Scale AA for males and with a 1-year set-forward for females. (See Table 4.)
Total Turnover	Based upon the 2005-2009 actual withdrawal experience. (See Table 5.)
Disability	Incidence rates based upon the 2005-2009 actual experience, in accordance with Table 6. Post-disability mortality in accordance with the RP-2000 Disabled Retiree Mortality Table. Disabilities are assumed to be occupational 75% of the time for Peace Officer/Firefighter, 55% of the time for Others.
Retirement	Retirement rates based upon the 2005-2009 actual experience in accordance with Tables 7 and 8. Deferred vested members are assumed to retire at their earliest unreduced retirement date for Others. For Peace Officer/Firefighter, Tier 1 deferred vested members are assumed to retire at age 53 and Tiers 2 and 3 deferred vested members are assumed to retire at age 57.
Marriage and Age Difference	Wives are assumed to be three years younger than husbands. 80% of male members and 70% of female members are assumed to be married.

^{*}The mortality assumptions include an allowance for expected future mortality improvement. The mortality table used was set in 2010 with an Actual Deaths to Expected Deaths ratio of 109%.



Section 6.3 (cont'd)

Summary of Actuarial Assumptions and Changes in Assumptions

Dependent Children	Benefits to dependent childre are married and between the children.						
Contribution Refunds	15% 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.						
COLA	Of those benefit recipients w assumed to remain in Alaska						
Post-Retirement Pension Adjustment	50% and 75% of assumed into valued for the annual automa (PRPA) as specified in the st	tic Post-Retiremen	1				
Expenses	All expenses are net of the in	vestment return ass	sumption.				
Part-Time Status	Part-time employees are assu per year for Peace Officer/Fig per year for Other members.	•					
Final Average Earnings	Final Average Earnings is pramount is used as a minimun the future.						
Per Capita Claims Cost	Sample claims cost rates adjuprescription are shown below	_	FY14 medical and				
		Medical	Prescription Drugs				
	Pre-Medicare	\$11,125	\$ 2,621				
	Medicare Parts A & B	\$ 1,726	\$ 2,621				
	Medicare Part B Only	\$ 6,676	\$ 2,621				
	Medicare Part D	N/A	\$ 502				
Third Party Administrator Fees	\$177.57 per person per year;	assumed trend rate	of 5% per year.				
Medicare Part B Only	For actives and retirees not y based on whether the employ employment after March 31, hire.	ee/retiree will have	e 40 quarters of				

Summary of Actuarial Assumptions and Changes in Assumptions

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, 8.7% is applied to the FY14 pre-Medicare medical claims cost to get the FY15 medical claims cost.

	Medical	Medical	Prescription
	Pre-65	Post-65	Drugs
FY14	8.7%	6.4%	6.3%
FY15	8.5%	6.3%	6.2%
FY16	8.0%	6.3%	6.2%
FY17	7.5%	6.2%	6.1%
FY18	7.0%	6.1%	6.0%
FY19	6.6%	6.1%	5.8%
FY20	6.4%	6.1%	5.8%
FY25	6.0%	6.0%	5.7%
FY50	5.0%	5.0%	5.0%
FY100	4.5%	4.5%	4.5%

For the June 30, 2012 valuations and later, the updated 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. This model has been adopted by the Society of Actuaries, and has been populated with assumptions that are specific to the State of Alaska.

Aging Factors			Prescription
	Age	Medical	Drugs
	0-44	2.0%	4.5%
	45-54	2.5%	3.5%
	55-64	3.5%	3.0%
	65-73	4.0%	1.5%
	74-83	1.5%	0.5%
	84-93	0.5%	0.0%
	94+	0.0%	0.0%

Summary of Actuarial Assumptions and Changes in Assumptions

Retired Member Contributions for Medical Benefits

Currently contributions are required for PERS members who are under age 60 and have less than 30 years of service (25 for Peace Officer/Firefighter). Eligible Tier 1 members are exempt from contribution requirements. Annual FY14 contributions based on monthly rates shown below for calendar 2013 and 2014 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 or 3 who are assumed to retire prior to age 60 with less than 30 years of service and who are not disabled.

Coverage Category	Calendar 2014 Annual Contribution	Calendar 2014 Monthly Contribution	Calendar 2013 Monthly Contribution
Retiree Only	\$ 9,876	\$ 823	\$ 807
Retiree and Spouse	\$ 19,764	\$ 1,647	\$ 1,615
Retiree and Child(ren)	\$ 13,956	\$ 1,163	\$ 1,140
Retiree and Family	\$ 23,844	\$ 1,987	\$ 1,948
Composite	\$ 14,676	\$ 1,223	\$ 1,200

Trend Rate for Retired Member Medical Contributions

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, 8.2% is applied to the FY14 retired member medical contributions to get the FY15 retired member medical contributions.

FY14	8.2%
FY15	8.0%
FY16	7.6%
FY17	7.2%
FY18	6.7%
FY19	6.4%
FY25	5.9%
FY50	5.0%
FY100	4.5%

Graded trend rates for retired member medical contributions were reinitialized for the June 30, 2012 valuation. Note that actual FY14 retired member medical contributions are reflected in the valuation so trend on such contribution during FY14 is not applicable.

Healthcare Participation

100% system paid of members and their spouses are assumed to elect the 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.

Summary of Actuarial Assumptions and Changes in Assumptions

Table 1 Alaska PERS Salary Scale

Peace Officer/Firefighter:

Year of Employment	Percent Increase
1-4	6.36%
5	6.11
6	5.61
7+	4.12

Others:

Year of Employment	Percent Increase
1	9.60%
2	7.60
3	6.61
4	6.11
5	5.61
6+	Age-based

Rates vary slightly by age after 5 years of employment.

Age	Percent Increase
25	5.11%
30	4.99
35	4.86
40	4.70
45	4.53
50	4.61
55	4.24
60+	3.62

Summary of Actuarial Assumptions and Changes in Assumptions

Table 2
Alaska PERS Peace Officer/Firefighter
Mortality Table (Pre-termination)

Mortality Table (Pre-termination)			
<u>Age</u>	<u>Male</u>	Female	
20	0.0303%	0.0135%	
21	0.0323	0.0133	
22	0.0345	0.0135	
23	0.0380	0.0138	
24	0.0419	0.0141	
25	0.0470	0.0144	
26	0.0534	0.0151	
27	0.0569	0.0155	
28	0.0590	0.0161	
29	0.0609	0.0170	
30	0.0627	0.0187	
31	0.0642	0.0207	
32	0.0656	0.0220	
33	0.0663	0.0229	
34	0.0664	0.0239	
35	0.0666	0.0250	
36	0.0674	0.0262	
37	0.0697	0.0277	
38	0.0721	0.0295	
39	0.0753	0.0316	
40	0.0792	0.0344	
41	0.0837	0.0372	
42	0.0890	0.0400	
43	0.0943	0.0425	
44	0.0997	0.0447	
45	0.1059	0.0462	
46	0.1133	0.0481	
47	0.1226	0.0508	
48	0.1331	0.0551	
49	0.1445	0.0598	
50	0.1571	0.0665	
51	0.1716	0.0745	
52	0.1883	0.0856	
53	0.2100	0.0978	
54	0.2331	0.1111	
55	0.2644	0.1270	
56	0.3015	0.1474	
57	0.3466	0.1712	
58	0.3989	0.1970	
59	0.4489	0.2266	
60	0.5050	0.2604	

Summary of Actuarial Assumptions and Changes in Assumptions

Table 3 Alaska PERS Others Mortality Table (Pre-termination)

	mortanty raises (i.e. terminane	,
<u>Age</u>	<u>Male</u>	<u>Female</u>
20	.0284%	.0123%
21	.0303	.0122
22	.0324	.0123
23	.0356	.0127
24	.0392	.0129
25	.0441	.0132
26	.0501	.0138
27	.0533	.0142
28	.0553	.0148
29	.0571	.0156
30	.0588	.0171
31	.0602	.0189
32	.0615	.0202
33	.0622	.0210
34	.0623	.0219
35	.0624	.0229
36	.0632	.0240
37	.0653	.0254
38	.0676	.0271
39	.0706	.0289
40	.0742	.0315
41	.0785	.0341
42	.0834	.0366
43	.0884	.0389
44	.0935	.0409
45	.0993	.0423
46	.1063	.0441
47	.1149	.0466
48	.1248	.0505
49	.1354	.0548
50	.1473	.0610
51	.1609	.0683
52	.1765	.0784
53	.1969	.0897
54	.2186	.1018
55	.2479	.1164
56	.2827	.1352
57	.3249	.1570
58	.3739	.1806
59	.4208	.2077
60	.4734	.2387

Summary of Actuarial Assumptions and Changes in Assumptions

Table 4 Alaska PERS Mortality Table (Post-termination)

<u>Age</u>	<u>Male</u>	<u>Female</u>
50	0.1964%	0.1241%
51	0.2145	0.1426
52	0.2354	0.1631
53	0.2625	0.1851
54	0.2914	0.2117
55	0.3305	0.2457
56	0.3769	0.2854
57	0.4333	0.3284
58	0.4986	0.3777
59	0.5611	0.4339
60	0.6312	0.4979
61	0.7251	0.5701
62	0.8188	0.6527
63	0.9436	0.7450
64	1.0644	0.8442
65	1.1956	0.9476
66	1.3618	1.0523
67	1.5123	1.1499
68	1.6336	1.2424
69	1.7873	1.3422
70	1.9147	1.4342
71	2.0940	1.5830
72	2.2981	1.7260
73	2.5175	1.9177
74	2.7475	2.0940
75	3.0609	2.3377
76	3.0609	2.6690
77	3.7879	2.9853
78	4.2924	3.3273
79	4.8681	3.7068
80	5.5102	4.1355
81	6.2135	4.6249
82	6.9722	5.1616
83	7.6164	5.7377
84	8.4319	6.4966
85	9.1495	7.3658

Summary of Actuarial Assumptions and Changes in Assumptions

Table 5 Alaska PERS Total Turnover Assumptions

Peace Officer/Firefighter:

Select Rates of Turnover
During the First 5 Years of Employment

Year of Employment	Unisex Rates
1	15.00%
2	10.00
3	8.00
4	7.00
5	6.00

Ultimate Rates of Turnover After the First 5 Years of Employment

Age	Male	Female
20	4.11%	5.19%
25	4.08	5.17
30	4.04	5.14
35	4.02	5.09
40	3.95	5.00
45	3.78	4.85
50	3.49	4.58
55	2.91	4.06
60	1.57	2.64
65+	4.32	5.40

Summary of Actuarial Assumptions and Changes in Assumptions

Table 5 Alaska PERS Total Turnover Assumptions

Others:

	Age at Hire		
Year of	20-34	35+	
Employment	Unisex Rates	Unisex Rates	
1	29.00%	20.00%	
2	25.00	17.00	
3	20.00	14.00	
4	16.00	11.00	
5	13.00	10.00	

Ultimate Rates of Turnover After the First 5 Years of Employment

Age	Male	Female
20	9.50%	13.68%
25	9.50	13.67
30	9.50	12.60
35	7.00	9.30
40	5.90	7.35
45	5.24	6.04
50	5.09	5.94
55	4.80	5.74
60	4.19	5.23
65+	5.50	6.25

Summary of Actuarial Assumptions and Changes in Assumptions

Table 6 Alaska PERS Disability Table

<u>Age</u>	Peace Officer/ <u>Firefighter Rate</u>	Other Me Male	mber Rate <u>Female</u>
20	.088%	.031%	.024%
21	.089	.031	.024
22	.090	.032	.024
23	.091	.032	.024
24	.093	.033	.025
25	.094	.033	.025
26	.095	.033	.025
27	.098	.034	.026
28	.100	.035	.027
29	.103	.036	.028
30	.105	.037	.029
31	.108	.037	.029
32	.110	.038	.029
33	.113	.039	.030
34	.116	.041	.031
35	.120	.042	.032
36	.124	.044	.034
37	.129	.045	.035
38	.134	.047	.036
39	.139	.048	.037
40	.144	.050	.039
41	.150	.052	.040
42	.159	.056	.043
43	.170	.059	.045
44	.185	.065	.050
45	.203	.071	.055
46	.220	.077	.059
47	.239	.083	.064
48	.259	.091	.070
49	.279	.097	.075
50	.300	.105	.081
51	.325	.114	.087
52	.358	.125	.096
53	.398	.139	.107
54	.444	.155	.119
55	.500	.175	.134
56	.574	.201	.155
57	.668	.234	.180
58	.763	.267	.205
59	.900	.315	.242
60	1.054	.368	.283

Summary of Actuarial Assumptions and Changes in Assumptions

Table 7
Alaska PERS Peace Officer/Firefighter
Retirement Table

Age at	Retirement Rate	
Retirement	Reduced	Unreduced
	Unisex Rates	Unisex Rates
<50	N/A	11.00%
50	10.00%	18.50
51	10.00	18.50
52	10.00	18.50
53	10.00	18.50
54	11.00	18.50
55	10.00	25.00
56	10.00	25.00
57	10.00	25.00
58	10.00	25.00
59	11.00	25.00
60	N/A	30.00
61	N/A	25.00
62	N/A	30.00
63	N/A	25.00
64-74	N/A	50.00
75	N/A	100.00

Summary of Actuarial Assumptions and Changes in Assumptions

Table 8
Alaska PERS Others
Retirement Table

Age at	Retirement Rate	
Retirement	Reduced	Unreduced
	Unisex	Unisex
	Rates	Rates
< 50	N/A	10.00%
50	8.00%	30.00
51	8.00	30.00
52	8.00	30.00
53	8.00	30.00
54	13.00	30.00
55	8.00	30.00
56	8.00	17.50
57	8.00	17.50
58	8.00	16.50
59	12.00	16.50
60	N/A	20.50
61	N/A	16.50
62	N/A	24.50
63	N/A	20.50
64	N/A	22.50
65	N/A	26.00
66	N/A	26.00
67	N/A	26.00
68	N/A	27.50
69	N/A	30.00
70-89	N/A	50.00
90		100.00

State of Alaska Public Employees' Retirement System

Section 6.3 (cont'd)

Summary of Actuarial Assumptions and Changes in Assumptions

Changes in Actuarial Assumptions Since the Prior Valuation

There have been no changes in actuarial assumptions since the prior valuation.

State of Alaska Public Employees' Retirement System

Glossary of Terms

Actuarial Accrued Liability Total accumulated cost to fund pension benefits arising from service

in all prior years.

Actuarial Cost Method Technique used to assign or allocate, in a systematic and consistent

manner, the expected cost of a pension plan for a group of plan

members to the years of service that vie rise to that cost.

Actuarial Present Value of Projected Benefits

Amount which, together with future interest, is expected to be

sufficient to pay all future benefits.

Actuarial Valuation Study of probable amounts of future pension benefits and the

necessary amount of contributions to fund those benefits.

Actuary Person who performs mathematical calculations pertaining to pension

and insurance benefits based on specific procedures and assumptions.

Annual Required Contribution Disclosure measure of annual pension cost.

GASB 25 and 27 Governmental Accounting Standards Board Statement Number 25

which specifies how the Annual Required Contribution (ARC) is to be calculated, and Number 27 which specifies Employer reporting of

Pension Cost.

GASB 43 and 45 Governmental Accounting Standards Board Statement Number 43

which specifies how the Annual Required Contribution (ARC) is to be calculated, and Number 45 which specifies Employer reporting of

Other Post-Employment Benefit (OPEB) Cost.

Liquidity Factor Is calculated as the average annual Fair Value of Assets divided by

the total annual benefit payments. This measures the approximate number of years that assets will cover benefit payments without contributions or investment return. Trend shows solvency risk.

Maturity Ratio The ratio of the actuarial accrued liability for members who are no

longer active to the total actuarial accrued liability. A ratio of over 50% indicates a mature plan. The higher the maturity ratio, the more volatile the contribution rate will be from year to year given actuarial

gains and losses.

Normal Cost That portion of the actuarial present value of benefits assigned to a

particular year in respect to an individual participant or the plan as a

whole.

Unfunded Actuarial Accrued

Liability (UAAL) Vested Benefits The portion of the actuarial accrued liability not offset by plan assets.

Benefits which are unconditionally guaranteed regardless of

employment status.

