

Public Employees' Retirement System

Actuarial Valuation Report as of June 30, 1992

Prepared by:

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April 2, 1993

State of Alaska
Public Employees' Retirement Board
Department of Administration
Division of Retirement & Benefits
P.O. Box 110203
Juneau, AK 99811-0203

Dear Members of the Board:

Actuarial Certification

The actuarial valuation required for the State of Alaska Public Employees' Retirement System has been prepared as of June 30, 1992 by William M. Mercer, Incorporated. The purposes of the report include:

- (1) a review of experience under the Plan for the year ended June 30, 1992;
- (2) a determination of the appropriate contribution rate for each employer in the System;
- (3) the provision of reporting and disclosure information for financial statements, governmental agencies, and other interested parties.

In preparing this valuation, we have employed generally accepted actuarial methods and assumptions, in conjunction with employee data provided to us by the System's staff and financial information provided by the audited report from KPMG Peat Marwick, to determine a sound value for the System liability. This data has not been audited, but it has been reviewed and found to be consistent, both internally and with prior years' data. The actuarial assumptions are based on the results of an experience study presented to the Board in October 1991.

The contribution requirements are determined as a level percentage of payroll, and reflect the cost of benefits accruing in FY93 and a 25-year rolling amortization of the unfunded accrued liability. The amortization period is set by the Board. Contribution levels are recommended by the Actuary and adopted by the Board each year. The ratio of assets to liabilities increased from 88.1% to 91.2% during the year. Over the years, progress has been made toward achieving the funding objectives of the System.



Public Employees' Retirement Board April 2, 1993 Page 2

The valuation reflects a change in the determination of the actuarial value of the fixed income portion of the assets, from book value to full market value. The assumptions and methods, when applied in combination, fairly represent past and anticipated future experience of the System.

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

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

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

Sincerely,

Brian R. McGee, FSA

Principal

Peter L. Godfrey, FIA

Associate

BRM/JWJ/SGM/ils

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Highlights

This report has been prepared by William M. Mercer, Incorporated to:

- (1) present the results of a valuation of the Alaska Public Employees' Retirement System as of June 30, 1992;
- (2) review experience under the plan for the year ended June 30, 1992;
- (3) determine the appropriate contribution rate for each employer in the System;
- provide reporting and disclosure information for financial statements, governmental agencies, and other interested parties.

The report is divided into two sections. Section 1 contains the results of the valuation. It includes the experience of the plan during the 1991-92 plan year, the current annual costs, and reporting and disclosure information.

Section 2 describes the basis of the valuation. It summarizes the plan provisions, provides information relating to the plan participants, and describes the funding methods and actuarial assumptions used in determining liabilities and costs.

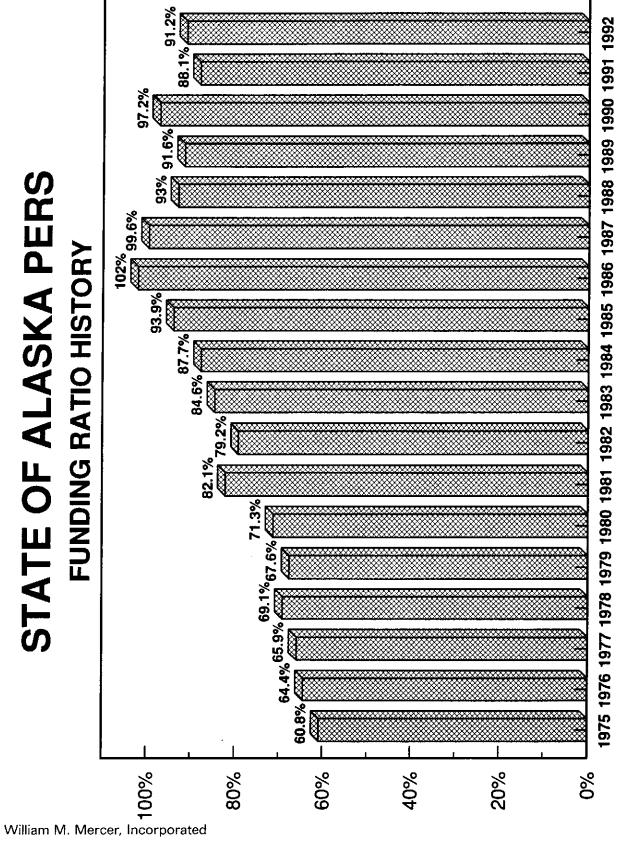
The principle results are as follows:

		<u> 1991</u>	<u>1992</u>
Funding St	atus as of June 30:		
(a)	Valuation Assets*	\$2,942,121	\$3,409,859**
(b)	Accrued Liability*		
	i) Non-Medical Benefits	2,437,555	2,735,178
	ii) Total Benefits (including medical)	3,339,145	3,740,882
(c)	Funding Ratio, (a) / (b)		
	i) Non-Medical Benefits	120.7%	124.7%
	ii) Total Benefits (including medical)	88.1%	91.2%

^{*} In thousands.

^{**} Reflects change in asset valuation method.

STATE OF ALASKA PERS FUNDING RATIO HISTORY



Employer Contribution Rates for Fiscal Year:

		<u>1994</u>	<u>1995</u>
(a)	Consolidated Rate	10.18%	10.90%
(b)	Average Past Service Rate	3.54%	2.80%
(c)	Average Total Contribution Rate	13.72%	13.70%

Analysis of the Valuation

As shown in the Highlights section of the report, the funding ratio as of June 30, 1992 has increased from 88.1% to 91.2%, an increase of 3.1%. The average employer contribution rate has reduced from 13.72% of payroll for FY94 to 13.70% for FY95, a reduction of 0.02% of payroll. The reasons for the change in the funded status and contribution rate are explained below.

(1) Retiree Medical Insurance

As you are aware, retiree medical premium experience has, in recent years, caused large fluctuations in the employer contribution rate. The following table summarizes the monthly premium per benefit recipient since retiree medical benefits have been provided under PERS and TRS.

Fiscal	Monthly Premium Per Retiree	Annual Percentage	Average Annual Increase
		Increase	Since 1978
<u>Year</u>	For Health Coverage	IIICICASC	
1977	\$ 34.75		77
1978	57.64	66%	
1979	69.10	20%	20%
1980	64.70	- 6%	6%
1981	96.34	49%	19%
1982	96.34	0%	14%
1983	115.61	20%	15%
1984	156.07	35%	18%
1985	191.85	24%	19%
1986	168.25	-12%	14%
1987	165.00	- 2%	12%
1988	140.25	-15%	9%
1989	211.22	51%	13%
1990	252.83	20%	13%
1991	243.98	- 4%	12%
1992	243.98		11%
1993	226.90	- 7%	10%
1994	309.72	37%	11%

As you can see from the above table, the monthly retiree medical premium decreased during the year, to \$226.90. The premium for the 1994 fiscal year has increased to \$309.72, an increase of 37%. Since FY88, annual premium rate changes have ranged from 51% up to 15% down, but the average annual increase has been about 9.5%.

Last year, in an attempt to better predict the long-term increase in medical premiums, the Board adopted a health cost trend assumption which varies by year, declining to an ultimate rate equal to 7.5% for FY97 and later. If the long-term assumption remains reasonable, short-term gains and losses from the annually-determined medical premium rate will offset each other over time.

To help avoid the volatility in the funding and solvency of the System of bringing large health-related gains and losses into the System every year, we recommend that the Board use the health cost trend assumption to determine actuarial liabilities for retiree medical benefits. The difference between the assumed rate and the actual rate will be tracked annually and reduced if the gap becomes too wide. Also, adjustments will be made, if necessary, to the assumed medical premium rate every four to five years when a formal experience analysis is performed.

The effect of this approach is that no gain or loss emerges this year due to retiree medical insurance.

(2) Asset Valuation Method

The asset valuation method is based upon the five-year average ratio between actuarial and book values of the System's assets. Prior to June 30, 1992, the actuarial value of assets equalled the market value, except that fixed income investments were carried at book value. Beginning June 30, 1992, the actuarial value of assets of fixed income investments equals the full market value.

This change was made as a result of a change in investment philosophy over time from a "buy and hold" strategy for fixed income investments to a "managed" strategy. This means that the fixed income funds are actively managed to obtain market advantages, making the market value a more appropriate valuation method. The effect of the change increased valuation assets by \$103,790,000, which increased the funding ratio by 2.8% and lowered the average employer contribution rate by 0.88%.

(3) Investment Performance

The approximate rate of return based on market value of system assets was 11.54%. The effect of the five-year smoothing technique, before the change in asset valuation method, was a rate of return based on valuation assets of 9.40%, compared to the 8.75% investment return assumption. This produced a gain of \$19,375,000 to the System from investment performance which had the effect of decreasing the average employer contribution rate by 0.16%.

(4) Salary Increases

Last year, salary increases were less than anticipated in the valuation assumptions. Salary experience resulted in an actuarial gain which generated a reduction in the total employer contribution rate equal to 0.56%.

(5) Employee Data

Section 2.2 provides statistics on active and inactive participants. The number of active participants increased 3.0% from 29,840 at June 30, 1991 to 30,721 at June 30, 1992. This increase matched the median population increase scenario reviewed last year. The average age of active participants increased from 40.68 to 41.21 and average credited service increased from 6.91 to 7.22 years.

The number of retirees and beneficiaries increased 4.1% from 8,358 to 8,704, and their average age increased from 63.15 to 63.58. There was a 7.8% increase in the number of vested terminated participants from 3,015 to 3,249. Their average age increased from 43.20 to 43.59.

The overall effect of these participant data changes was an actuarial loss to the System, resulting in an increase in the past service rate equal to 1.02%. These demographic changes also had the effect of increasing the consolidated rate by 0.56%.

(6) Actuarial Projections

At the Fall 1991 Board Meetings, the PERS Board approved the use of an enhanced actuarial projection system in the valuation report this year. The same actuarial cost method is used, but the enhanced system projects population growth patterns and their associated liabilities 25 years into the future. By also projecting plan assets, this report in effect produces an actuarial valuation for each of the next 25 years. Section 1.5, Actuarial Projections, contains the results of this analysis.

This type of information can be especially useful to two-tiered systems, such as PERS. All of the projected new entrants will be covered under the cost savings provisions of the second tier, so that the ultimate effect of the second tier on plan liabilities can be anticipated. As you can see in Section 1.5, based on the actuarial assumptions and cost method, future contribution rates are expected to remain relatively constant, and then slowly increase in 10 to 15 years. This reflects the fact that many second-tier employees are already in PERS and affecting the rate. Also, health premiums are expected to increase faster than salaries, putting upward pressure on the rates.

Summary

The following table summarizes the sources of change in the total employer contribution rate:

(1)	Last year's average employer contribution rate	13.72%
(2)	Change in past service rate due to retiree medical insurance	0.00%
(3)	Change in consolidated rate due to retiree medical insurance	0.00%
(4)	Decrease due to investment performance	(0.16%)
(5)	Decrease due to salary increases	(0.56%)
(6)	Increase in past service rate due to demographic experience	1.02%
(7)	Increase in consolidated rate due to demographic experience	0.56%
(8)	Decrease in average employer contribution rate due to change in asset valuation method	(0.88%)
(9)	Average employer contribution rate this year	13.70%

Section 1

Valuation Results

This section sets forth the results of the actuarial valuation.

Section 1.1(a) shows the distribution of net assets as of June 30, 1992.

Section 1.1(b) shows the transactions of the plan's fund during FY92.

Section 1.1(c) develops the valuation assets as of June 30, 1992.

Section 1.2(a) shows the actuarial present values for Police and Fire members as of June 30, 1992.

Section 1.2(b) shows the actuarial present values for "Other" members as of June 30, 1992.

Section 1.3(a) develops the average employer contribution rate for Police and Fire members - FY95.

Section 1.3(b) develops the average employer contribution rate for "Other" members - FY95.

Section 1.3(c) develops the average employer contribution rate for all members - FY95.

Section 1.4 calculates the actuarial gain or loss for FY92.

Section 1.5 contains the financial projections.

1.1(a) Statement of Net Assets as of June 30, 1992 (in thousands)

	Book Value	Actuarial Value*
Cash and Cash Equivalents	\$ 10,248	\$ 10,248
United States Government Bonds	715,943	804,158
Other United States Government Securities	62,398	63,614
Corporate Bonds	803,736	852,468
United States Common Stocks	1,125,674	1,296,970
Foreign Stocks	191,441	187,632
Real Estate Equities	152,285	118,049
Mortgages (Net of Reserves)	67,575	76,236
Net Accrued Receivables	44,729	44,729
Total Assets	\$3,174,029	\$3,454,104

^{*} Effective June 30, 1992, the Actuarial Value of Assets equals the full Market Value, as provided in the audited financial statements.

1.1(b) Changes in Net Assets During Fiscal Year 1992 (in thousands)

Net Assets, June 30, 1991, (market value)		\$ 3,017,541
Additions:		
Employee Contributions	\$ 77,602	
Employer Contributions	147,961	
Contributions for Retirement Incentive Program:		
Employee Contributions	72	
Employer Contributions	1,231	
Interest Income and Realized Gain (Loss)	235,196	
Dividend Income	47,477	
Unrealized Gain (Loss) on Investments	<u>78,450</u>	587,989
Deductions:		
Medical Benefits	\$ 23,120	
Retirement Benefits	108,360	
Refunds of Contributions	11,901	
Administrative Expenses	8,045	151,426
Net Assets, June 30, 1992, (market value)		\$ 3,454,104
Approximate Investment Return Rate During the Year, Net of Administrative Expenses:		
Based on Market Values		11.54%
Based on Valuation Assets (prior to change in asset valuation method)		9.40%

1.1(c) Development of Valuation Assets as of June 30, 1992 (in thousands)

		A	В	C
		Actuarial <u>Value</u>	Book <u>Value</u>	Ratio (A/B)
(1)	June 30, 1992	\$3,454,104	\$3,174,029	1.0882
(2)	June 30, 1991	3,017,541	2,825,114	1.0681
(3)	June 30, 1990	2,746,555	2,553,305	1.0757
(4)	June 30, 1989	2,452,962	2,277,181	. 1.0772
(5)	June 30, 1988	2,123,695	1,999,221	1.0623
(6)	Average Ratio			1.0743
(7)	Book Value at June 30, 1992			\$3,174,029
(8)	Valuation Assets at June 30, 1992, (6) x (7) but not outside			
	the range of book and actuarial values			\$3,409,859

1.2(a) Actuarial Present Values as of June 30, 1992 Police and Fire Members (in thousands)

Active Members	Normal <u>Cost</u>	Accrued Liability
Active Members		
Retirement Benefits	\$ 16,787	\$ 257,638
Termination Benefits	567	5,290
Disability Benefits	620	11,317
Death Benefits	528	10,323
Return of Contributions	365	2,135
Medical Benefits	6,290	73,267
Indebtedness	0	(7,740)
Retirement Incentive Program Receivables	0	(712)
Subtotal	\$ 25,157	\$ 351,518
Inactive Members		
Not Vested	\$ 0	\$ 368
Vested Terminations - Retirement Benefits	0	6,790
- Medical Benefits	0	7,467
Retirees & Beneficiaries - Retirement Benefits	0	195,445
- Medical Benefits	0	<u>30,930</u>
Subtotal	\$ 0	\$ 241,000
<u>Totals</u>	\$ 25,157	\$ 592,518

1.2(b) Actuarial Present Values as of June 30, 1992 "Other" Members (in thousands)

	Normal <u>Cost</u>	Accrued <u>Liability</u>
Active Members		
Retirement Benefits	\$ 73,156	\$ 867,788
Termination Benefits	17,623	165,880
Disability Benefits	3,337	42,772
Death Benefits	3,691	55,773
Return of Contributions	6,161	27,457
Medical Benefits	63,011	481,808
Indebtedness	0	(29,560)
Retirement Incentive Program Receivables	0	(5,574)
Subtotal	\$ 166,979	\$ 1,606,344
Inactive Members		
Not Vested	\$ 0	\$ 9,491
Vested Terminations - Retirement Benefits	0	158,205
- Medical Benefits	0	177,217
Retirees & Beneficiaries - Retirement Benefits	0	962,092
- Medical Benefits	0	235,015
Subtotal	\$ 0	\$1,542,020
<u>Totals</u>	\$ 166,979	\$3,148,364

1.3(a) Development of Average Employer Contribution Rate - FY95 For Police and Fire Members (in thousands)

Consolidated Rate	Con	solida	ıted	Rate
-------------------	-----	--------	------	------

(1)	Total Normal Cost	\$	25,157						
(2)	Total Salaries		122,762						
(3)	Normal Cost Rate for Police & Fire Members, (1) / (2)		20.49%						
(4)	Member Contribution Rate (Police & Fire)		7.50%						
(5)	Consolidated Employer Normal Cost Rate For Police & Fire Members, (3) - (4)		12.99%						
			•						
Past Service Rate									
(1)	Accrued Liability	\$	592,518						
(2)	Valuation Assets		540,087*						
(3)	Total Unfunded Liability, (1) - (2)		52,431						
(4)	Amortization Factor (25 years)	1	0.902097						
(5)	Past Service Cost, (3) / (4)		4,809						
(6)	Total Salaries		122,762						
(7)	Past Service Rate, (5) / (6)		3.92%						
Total Employer Contribution Rate 16.91%									

^{*} Allocated in proportion to Accrued Liability.

1.3(b) Development of Average Employer Contribution Rate - FY95 For "Other" Members (in thousands)

Consolidated Rate

(1)	Total Normal Cost	\$	166,979							
(2)	Total Salaries		961,054							
(3)	Normal Cost Rate for "Other" Members, (1) / (2)		17.37%							
(4)	Member Contribution Rate ("Others")		6.75%							
(5)	Consolidated Employer Normal Cost Rate For Other Members, (3) - (4)		10.62%							
Past Service Rate										
(1)	Accrued Liability	\$3	3,148,364							
(2)	Valuation Assets	2	2,869,772*							
(3)	Total Unfunded Liability, (1) - (2)		278,592							
(4)	Amortization Factor (25 years)	1	0.902097							
(5)	Past Service Cost, (3) / (4)	\$	25,554							
(6)	Total Salaries	\$	961,054							
(7)	Past Service Rate, (5) / (6)		2.66%							
Total Employer Contribution Rate 13.2										

^{*} Allocated in proportion to Accrued Liability.

1.3(c) Development of Average Employer Contribution Rate - FY95 All Members (in thousands)

(1)	Total Normal Cost	\$ 192,136						
(2)	Total Salaries	1,083,816						
(3)	Normal Cost Rate for All Members, (1) / (2)	17.73%						
(4)	Average Member Contribution Rate	6.83%						
(5)	(5) Consolidated Employer Normal Cost Rate for All Members, (3) - (4)							
Past Service Rate								
(1)	Accrued Liability	\$3,740,882						
(2)	Valuation Assets	3,409,859						

(4)	25-Year Amortization Factor	10.902097
(5)	Past Service Cost, (3) / (4)	30,363
(6)	Total Salaries	1,083,816
(7)	Past Service Rate, (5) / (6)	2.80%

Total Employer Contribution Rate

(3) Total Unfunded Liability, (1) - (2)

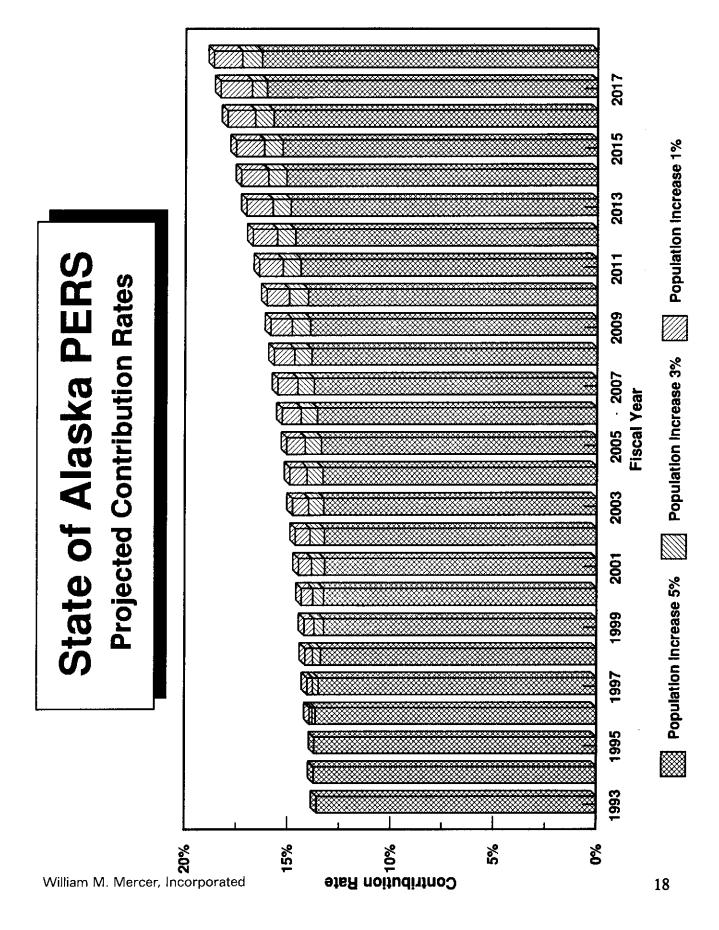
Consolidated Rate

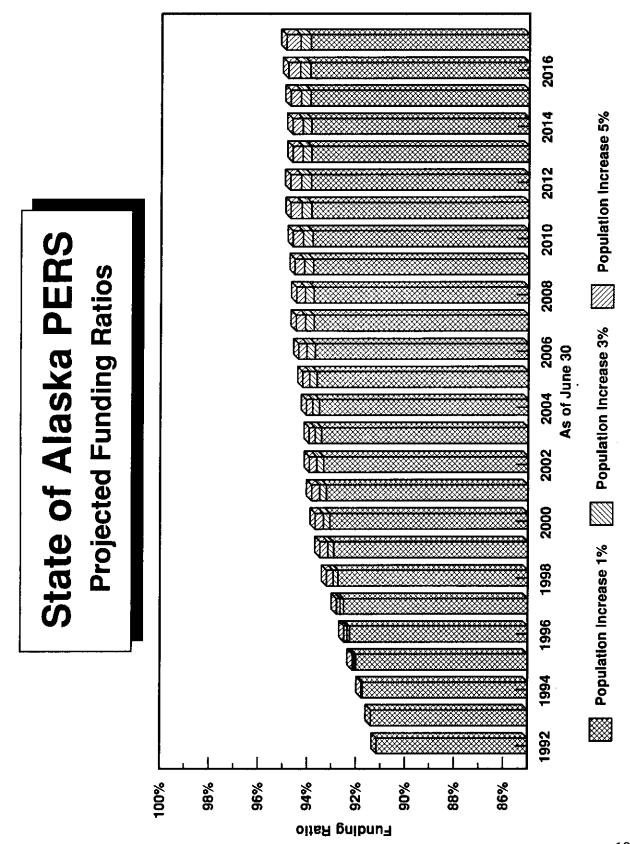
13.70%

331,023

1.4 Development of Actuarial Gain/(Loss) for FY92 (in thousands)

(1)	Unfunded Liability, June 30, 1991	\$ 397,024
(2)	Normal Cost for FY92	174,917
(3)	Interest on (1) and (2) at 8.75%	50,045
(4)	Employee Contributions for FY92	77,674
(5)	Employer Contributions for FY92	149,192
(6)	Interest on (4) and (5) at 8.75% for one-half year	.9,925
(7)	Expected Unfunded Liability, June 30, 1992, $(1) + (2) + (3) - (4) - (5) - (6)$	385,195
(8)	Reduction in Unfunded Liability due to Change in Asset Valuation Method	103,790
(9)	Expected Unfunded Liability after Changes, (7) - (8)	281,405
(10)	Actual Unfunded Liability, June 30, 1992	331,023
(11)	Actuarial Gain/(Loss) for the Year, (9) - (10)	\$ (49,618)





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Table 1

	Endina	Asset	Value		3,766,965	4.146.150	4 548 188	076 926 7	5,429,778	5 904 798	6.405.348	6.930.259	7.478.436	8 049 031	8.639.533	9 254 048	9.892 646	10.557.315	11.246.256	11.959.819	12,708,747	13,495,989	14,327,257	15,204,439	16, 127, 597	17,115,785	18, 174, 260	19.306.214	20.513.871	21, 799, 894
		Investment	Earnings	1 1 1 1 1 1	300,825	331,687	364, 433	399, 257	436,210	475, 102	515,994	558,978	603,957	352	699, 521	030	556	84		710	012	402	244	856	319	435	223	038	105	1,773,631
1.00%		Net	S		56,281	47,498	37.605	29,495	16,628	(82)	(15,444)	(34,067)	(55, 780)	(80,256)	(109,019)	(135,515)	(163,958)	(192,515)	(224,981)	(259, 146)	(285,084)	(311, 160)	(334,975)	(360,674)	(390, 161)	(405.247)	(420,748)	(439,084)	(461,448)	(487,608)
Increase	nths	Benefit	Payments		164,926	183,112	200,805	220,421	244, 182	272,772	301,676	335,221	372,132	412,077	456,472	503,580	552,806	604,067	659,176	716,023	772,450	829,569	889,066	950,368	1,015,528	1,077,446	1,140,405	1,211,474	1,286,268	1,364,815
Annual Population Increase	ing Following 12 Months-	Total	Contribs	•																									824,820	
Annual P		Employee	Contribs	1 1 1 1 1	74,025	76,645	79,318	82,206	85,362	88,757	92,975	97, 193	101,411	105,629	109,847	115,593	121,339	127,084	132,830	138,576	146,668	154,759	162,851	170,943	179,034	190,284	201,533	212,783	224,033	235,282
	Amounts Dur	Employer	Contribs		147	153	159	167		183	193	203	214,	226,	237,	252,	267,	284,	301	318,	340		36 1,	418	446	, 181	518,	559,	600	641,925
	FLOW	Employer	Ctb Rate		13.58%	13.72%	13.70%	13.93%	14.04%	14.15%	14.20%	14.33%	14.48%	14.63%	14.77%	14.92%	15.06%	15.29%	15.50%	15.69%	15.87%	16.05%	16.41%	16.73%	17.03%	17.30%	17.56%	17.96%	18.32%	18.63%
		Total	Salaries		8 8	122,	1,161,316	1,203,597	249,	1,299,523	361,	423,	484,	546,	608,	692,	776,	860,	1,944,805	028,	147,	265	384	502,	621,	₹ 86,	2,950,710	₹,	280,	3,444,836
	1	Surplus*	(Deficit)	*	(331,023)	(354,735)	(373,828)	(395,666)	(417,388)	(439,317)	(462, 103)	(487,757)	(515,212)	(543,982)	(573,986)	(607,464)	(640,687)	(674,620)	(708,960)	(747,850)	(793,932)	(840, 112)	(887,743)	(636,069)	(988,811)	1,052,169)	1,114,006)	1,176,636)	(1,245,091) 3,	(1,326,024)
8.75%	its on July	Funding	Ratio		91.2%	77.16	۲. ۲.	92.0%	92.3%	92.5%	92.7%	35.3%	93.1%	93.2%	93.3%	93.4%	93.5%	93.6%	۲ 23	93.8%	93.8%	93.8%	93.8%	93.9%	93.9%	93.9%	93.9%	93.9% (93.9% (93.9% (
Investment Return	Valuation Amounts on Ju	Accrued Funding	Liability		3,740,882	4, 121, 700	4,519,978	4,943,855	5,394,328	5,869,095	6,366,901	6,893,105	7,445,471	8,022,418	8,623,018	9,246,997	9,894,735	10,567,265	11,266,275	11,994,106	12,753,751	15,548,859	14,385,732	15, 263, 326	16, 193, 249	17, 179, 766	18, 229, 791	19,350,896		21,839,895
Invest	•	Total	Assets		5,409,859	3,766,965	4,146,150	4,548,188	4,976,940	5,429,778	5,904,798	6,405,348	6,930,259	7,478,436	8,049,031	8,639,533	9,254,048	9,892,646	10,557,315	1,246,256	959,819	747,807,21	15,495,989	4,327,257	5,204,439	6,127,597	7,115,785	18, 174, 260	9,306,214	20,513,871
	1	As of	June 30		1992	1993													2006											2017 2

* Surpluses reduce employer contributions over 5 years * Deficits increase employer contributions over 25 years

State of Alaska PERS Financial Projections ('000 omitted)

	Ending	Asset	Value	•	3,766,965	4 149 638	4 559 123	7 998 366	5 465 495	5 959 436	9 486 660	7.046.865	7 639 332	8 264 018	8 919 137	9 615 665	10,355,088	11 141 811	11,975,022	12,856,261	13,807,560	14.834.454	15.946.905	17, 148, 688	18,442,168	19.865,682	21,438,435	23, 155, 929	25,020,959	27,059,634
		Investment	Earnings		300,825	331,834	365,038	400,613	438,605	478 889	521,693	567, 274	615,589	666, 607	720, 252	776,908	837,097	901,068	968,969	1,040,832	1, 117,645	1,200,563	1,290,237	1,387,240	1,491,832	1,605,718	1, 731, 310	1,869,225	2,019,391	2, 183, 019
3.00%		Net	Contribs		56,281	50,840	277.77	38,630	28,524	15,052	5,532	(7,069)	(23, 122)	(41,922)	(65, 132)	(80,381)	(92,674)	(114,344)	(135, 758)	(159,594)	(166,346)	(173,670)	(177, 785)	(185,458)	(198,352)	(182,204)	(158,557)	(151,731)	(154,361)	(144,343)
Increase	Months	Benefit	Payments		164,926	183,120	200,992	220,905	245, 103	274,293	303,746	337,949	375,674	416,589	462,175	510,724	561,680	615,094	672,911	733,058	793,457	855,306	920,575	989,027	1,062,774	1,134,915	1,209,921	1,296,219	1,389,490	1,489,996
annual Population increase	12	Total	Contribs		221,207	233,959	245,439	259,534	273,627	289,345	309,278	330,880	352,552	374,667	397,043	430,343	7900, 797	500,750	537, 154	573,464	627, 111	681,636	742,789	803,570	864,422	952,710	1,051,364	1,144,489	1,235,129	1,345,653
Annual	ring Following	Employee	Contribs		74,025	77 759	81,656	85 949	90, 709	95, 929	102, 794	109,659	116,524	123,389	130,254	140,609	150,965	161,320	171,675	182,031	197, 869	213,708	229,547	245,385	261, 224	285, 232	311,875	333,248	357,255	381,263
	Amounts During	Employer	Contribs	1 1 1 1 1 1 1 1	147, 182	156,200	163,783	173,585	182,918	193,416	206,484	221,221	236,028	251,278	266, 789	289, 734	313,042	339,430	365,478	391,433	459,242	467,928	513,243	558, 184	603, 198	627, 479	739, 489	811,241	877,873	964,389
		Employer	Ctb Rate		13.58%	13.72%	13.70%	13.79%	13.77%	13.77%	13.72%	13.78%	13.83%	13.91%	13.99%	14.07%	14.16%	14.37%	14.54%	14.69%	14.82%	14.95%	15.27%	15.54%	15.77%	15.98%	16.19%	16.63%	16.78%	17.28%
		Total	Salaries		1,083,816	1, 138, 487	1, 195, 553	1,258,403	1,328,102	1,404,522	1,505,035	1,605,548	1,706,061	1,806,574	1,907,087	2,058,702	2,210,318	2,361,933	2,513,549	2,665,165	2,897,063	3, 128, 960	3,360,858	3,592,756	3,824,654	4, 176, 160	4,566,259	4,879,173	5,230,680	5,582,186
		SULPLUS	(Deficit)		(351,023)	(355, 166)	(373,277)	(392,858)	(412,650)	(433, 261)	(425,445)	(476,058)	(502,389)	(531,274)	(563,011)	(600, 772)	(636, 103)	(671,170)	(706,357)	(748,398)	(802,808)	(855, 743)	(910,992)	(969,048)	(1,037,726)	(1, 127, 385)	(1,213,545)	(1,291,991)	(1,383,346)	(1,502,075)
	ts on Jul	Accrued Funding	Katio					92.1%						93.5%							74.1%	94.2%	74.5%	94.3%				94.3%	74.4%	94.3%
	Valuation Amounts on July	Accrued	Liability		3,740,882	4, 122, 131	4,522,915	4,951,981	5,411,016	5,898,756	6.411,881	6,962,719	7,549,254	8, 170, 606	8,827,029	9.519.909	10,251,768	11,026,258	11,848,168	12, 723, 420	15,659,009	14,665,503	15, 745,446	16,915,955	18, 186, 414	19,569,553	21,079,226	22, 730, 426	, 556,	26,525,033
	Valu	ומומו	Assets	01007				4,559,123	4,998,366	5,465,495	5,959,436	6,486,660	7,046,865	7,639,332	8, 264, 018	8,919,137	6,615,665	10,555,088	11,141,811	11,975,022	12,650,201	15,807,560	4,604,404	2,746,705	14, 148,088	18,442,168	7,802,082	21,458,435	25, 155, 929	950,020,63
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* Surpluses reduce employer contributions over 5 years * Deficits increase employer contributions over 25 years

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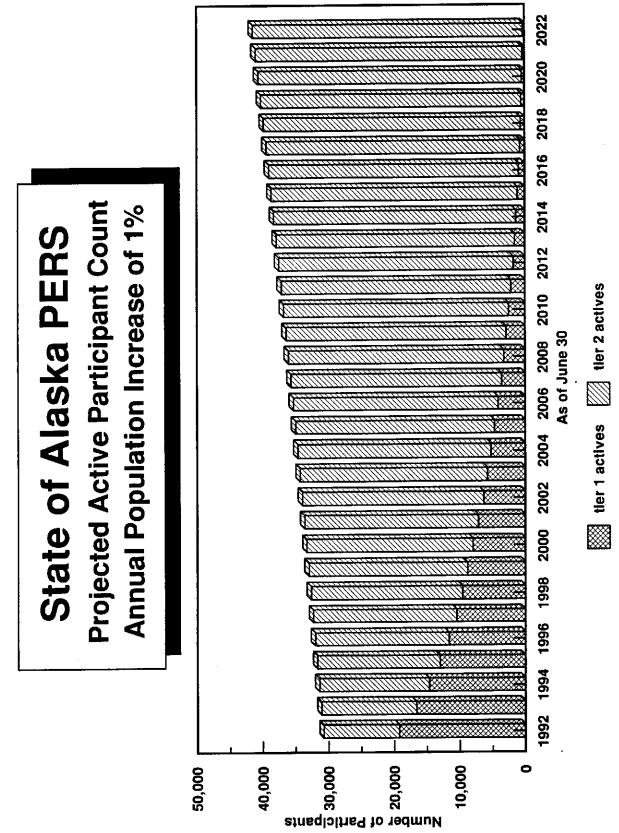
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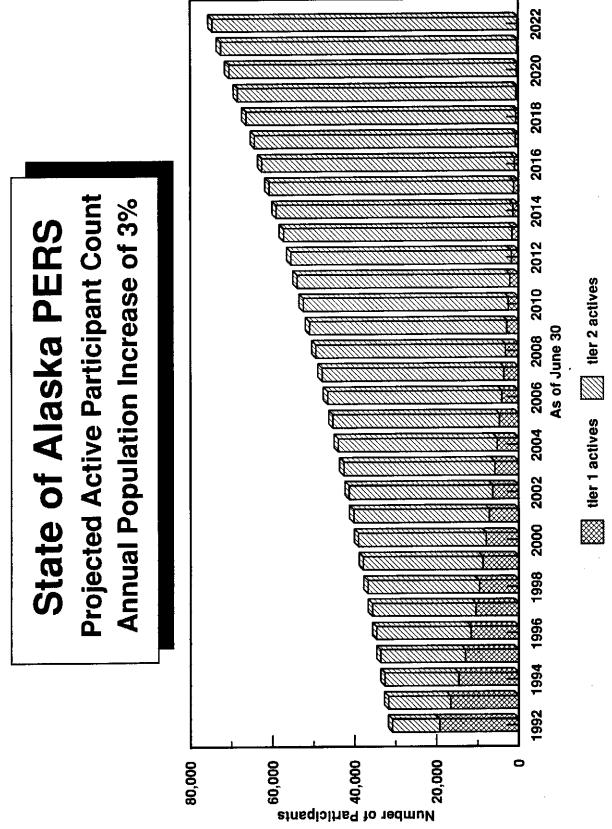
Investment Return

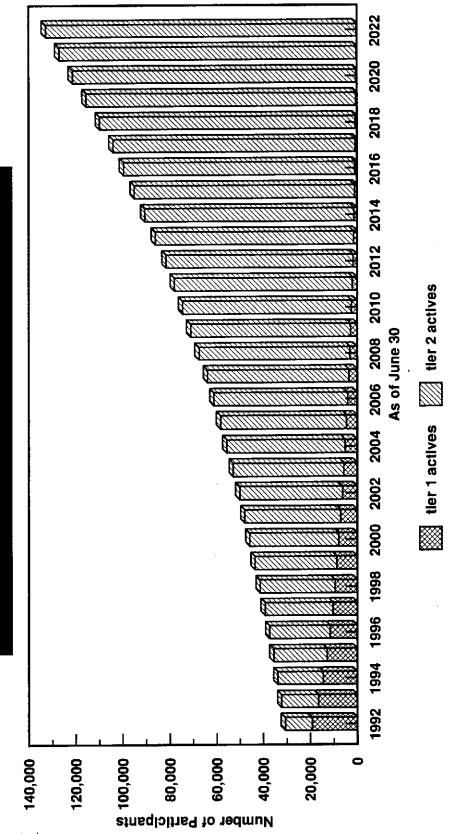
Annual Population Increase

11, 824, 946 12, 838, 209 13, 930, 348 15, 142, 661 16, 484, 453 16, 487, 824 17, 974, 824 17, 974, 824 17, 974, 824 17, 27, 151 23, 747, 767 28, 746, 221 31, 215, 692 34, 387, 800 6,016,944 6,573,736 7,173,843 7,816,477 8,502,823 9,232,117 10,025,910 Investment Earnings 56, 281 54, 336 51, 591 41,052 31, 246 29, 339 (14, 987) (14, 987) (14, 988) (14, 694) (29, 896) (6, 316) (6, 316) (6, 316) (6, 316) (6, 316) (6, 316) (6, 316) (6, 316) (73, 896) (73, 896) 16, 104 45, 970 4 Contribs 164,926 183,127 221,397 246,654 275,6654 275,6654 340,920 379,599 519,013 519,013 519,013 519,013 519,013 689,433 753,751 1122,827 753,751 753,751 766,54,695 766,54,695 ---Flow Amounts During Following 12 Months----221,207 237,463 252,771 269,497 287,105 334,781 334,781 334,781 334,781 355,781 613,529 668,910 723,855 613,529 668,910 723,855 1,005,955 1,005,953 1,209,017 74,025
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* Surpluses reduce employer contributions over 5 years* Deficits increase employer contributions over 25 years



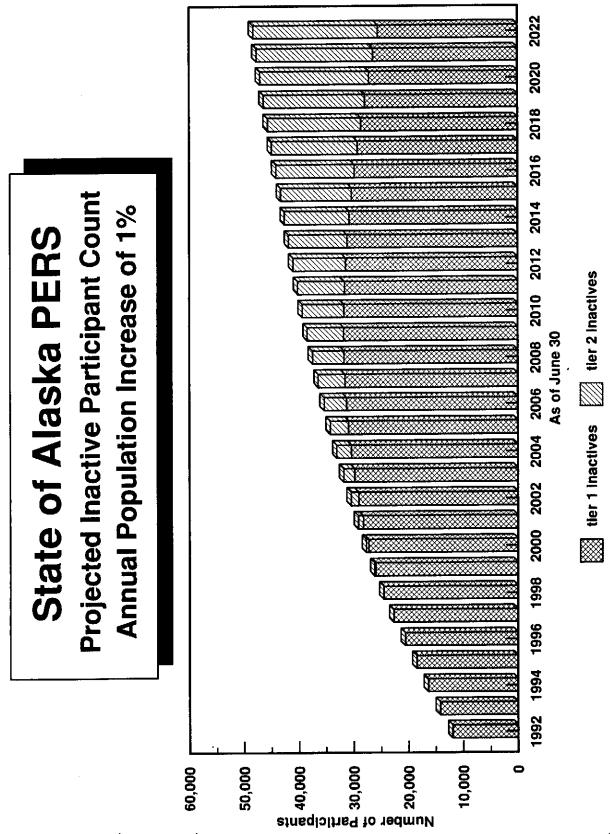


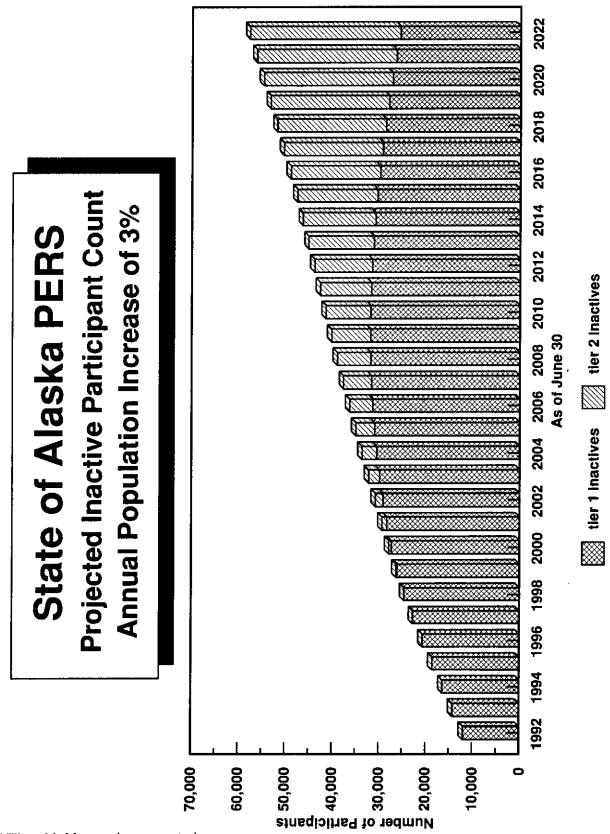


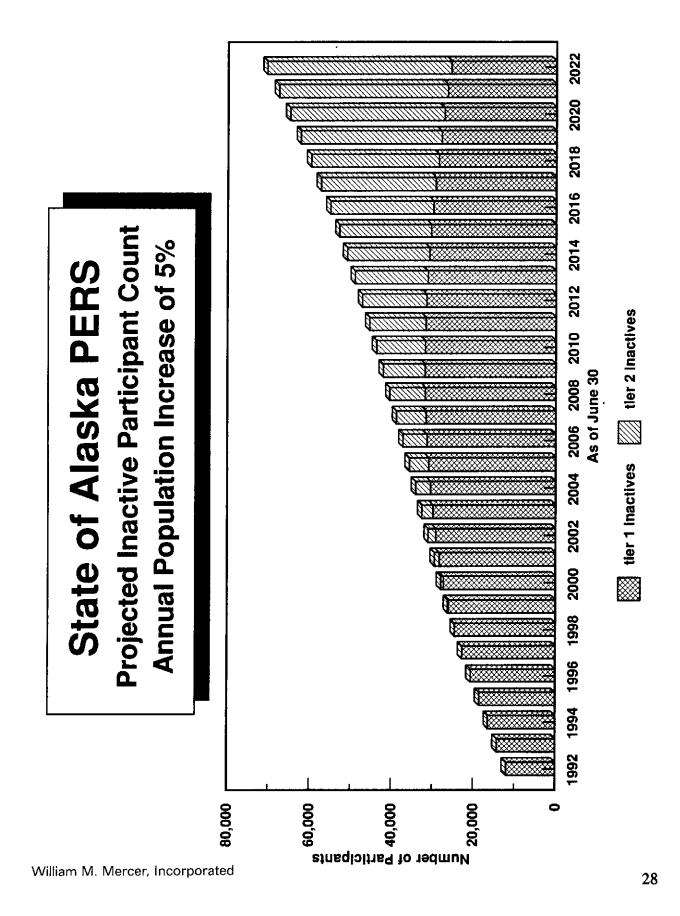
Projected Active Participant Count

State of Alaska PERS

Annual Population Increase of 5%







Section 2

Basis of Valuation

In this section, the basis of the valuation is presented and described. This information—the provisions of the plan and the census of participants—is the foundation of the valuation, since these are the present facts upon which benefit payments will depend.

A summary of plan provisions is provided in Section 2.1 and participant census information is shown in Section 2.2.

The valuation is based upon the premise that the plan will continue in existence, so that future events must also be considered. These future events are assumed to occur in accordance with the actuarial assumptions and concern such events as the earnings of the fund, the number of participants who will retire, die, terminate their services, their ages at such termination and their expected benefits.

The actuarial assumptions and the actuarial cost method, or funding method, which have been adopted to guide the sponsor in funding the plan in a reasonable and acceptable manner, are described in Section 2.3.

2.1 Summary of the Alaska Public Employees' Retirement System

(1) Effective Date

January 1, 1961, with amendments through June 30, 1992. Chapter 82, 1986 Session Laws of Alaska, created a two-tier retirement system. New members who are first hired under the PERS after June 30, 1986 are entitled to different benefits than those members who were hired before July 1, 1986.

(2) Administration of Plan

The Commissioner of Administration is responsible for administration of the system; the Public Employees' Retirement Board prescribes policies and adopts regulations to carry out provisions of the system; and the Commissioner of Revenue invests the funds. The Attorney General represents the system in legal proceedings.

In 1992, legislation passed (Ch 31, SLA 1992) to establish the Alaska State Pension Investment Board. The investment board will be responsible for managing and investing Alaska's pension funds. The new board will begin managing the funds on July 1, 1993, or the date that the funds are transferred to the board, whichever is earlier.

(3) Employers Included

State of Alaska, political subdivisions, and public organizations who have elected to join the system.

(4) Employees Included

Membership in the Alaska PERS is compulsory for all permanent full-time and part-time employees of the State and designated departments, groups or other classifications of employees of participating political subdivisions or public organizations, and elected officials unless they have waived participation.

University of Alaska employees who elect to participate in the University's optional retirement plan and employees who are participating in other retirement plans that are funded by the State are not covered by the PERS. However, certain members of the Alaska Teachers' Retirement System (TRS) are eligible for PERS retirement benefits for their elected public official service with municipalities. Additionally, employees who work half-time in the PERS and the TRS simultaneously are eligible for half-time PERS and TRS credit.

PERS members who receive PERS occupational disability benefits are also covered under the PERS and earn service credit while they are on disability.

(5) Credited Service

Members receive credit for each day of PERS-covered employment.

Permanent part-time employees who work at least 15 hours per week, but less than 30 hours, receive service credit on a proportionate basis.

PERS members may claim PERS credit for the following service:

- 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, and fire fighter of a participating political subdivision or 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;
- half-time service that was rendered to PERS employers by employees who were also working in half-time positions covered by the Teachers' Retirement System; and
- leave without pay service after June 13, 1987, while the members were receiving Workers' Compensation.

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.

Past service rendered by employees of participating political subdivisions that occurred before the employers joined the PERS may be creditable if the employers agree to the pay required contributions.

(6) Computation of Average Monthly Compensation

The average monthly compensation is determined by averaging the highest salaries that the member received during any three consecutive payroll years. A member must have a minimum of 115 days of credited service in the last year worked to include it as one of the three highest.

(7) Employer Contributions

Separate contribution rates are established for each employer equal to the sum of:

(a) Consolidated Rate

A uniform rate for all participating employers sufficient to amortize all future service liabilities (less value of employee contributions) over the future working lifetimes of the covered group.

(b) Past Service Rate

A rate determined separately for each employer sufficient to amortize such employer's unfunded past service liability with level payments over 25 years. Any funding surplus is amortized over five years.

(8) Employee Contributions

Mandatory Employee Contributions: 7.5% of compensation for police and fire members; 6.75% of compensation for all other members. Employee contributions are deducted from the gross salary before federal income tax is withheld.

Note: Prior to January 1, 1987, rates were 5% for police and fire and 4.25% for all other members. Employee contributions were deducted from the gross salary after federal income tax was withheld.

Interest Credited: 4.5% compounded semiannually on June 30 and December 31.

Refund of Contributions:

If a member terminates PERS employment, the balance of the member's account (mandatory and voluntary contributions, indebtedness payments and interest earned) may be withdrawn by the member.

Note: The contribution accounts of terminated members may be attached to satisfy claims made under Alaska Statute 09.38.065, federal income tax levies and valid Qualified Domestic Relations Orders.

Reinstatement of Contributions: If mandatory contributions are refunded or withdrawn, the member must return to PERS employment in order to reinstate the refunded service. Upon reemployment, an indebtedness may be established for the amount of the refund. Contributions that are attached to satisfy claims under Alaska Statute 09.38.065 or a federal tax levy may be reinstated at any time; the member is not required to return to PERS employment. The indebtedness will accrue interest until it is paid in full or the member retires, whichever occurs first.

Refund at Death: If monthly survivor's pension are not payable upon the member's death, the member's contribution account balance, including mandatory and voluntary contributions, indebtedness payments, and interest earned, will be paid to the designated beneficiary. When the member has more than one year of PERS credit, the beneficiary will also receive an additional \$1,000 plus \$100 for each year of PERS credit.

(9) Normal Retirement Benefit

Eligibility:

- (a) Upon attaining age 60 (age 55 for members who participated before July 1, 1986) and meeting one of the following service requirements:
 - (i) Five years of paid-up PERS service; or
 - (ii) 60 days of paid-up PERS service if the member was an employee of the legislature during each of five legislative sessions and was first hired under the PERS before May 30, 1987; or
 - (iii) 80 days of paid-up PERS service if the member was an employee of the legislature during each of five legislative sessions and was first hired under the PERS after May 29, 1987; or
 - (iv) two years of paid-up PERS service if the member is vested in the Teachers' Retirement System; or
- (b) At any age after meeting one of the following service requirements:
 - (i) 20 years of paid-up PERS service as a peace officer or fire fighter; or
 - (ii) 30 years of paid-up PERS service for "all other" members.

A member who has been receiving PERS occupational disability benefits is eligible for a service retirement benefit upon satisfying the requirements for normal retirement.

Type:

Life only, level income, or optional joint and survivor benefit (actuarially reduced).

Amount:

All Others

2% of average monthly compensation for the first ten years of service, 2.25% for the next ten years, and 2.5% for all remaining years. Service before July 1, 1986 is calculated at 2%.

Police & Fire

2% of average monthly compensation for the first ten years of service plus 2.5% for years of service in excess of ten.

Minimum Benefit - \$25.00 per month for each year of credited service.

(10) Early Retirement Benefit

Eligibility:

Upon attaining age 55 (age 50 for members who participated before July 1, 1986) and meeting one of the following service requirements:

- (a) Five years of paid-up PERS service; or
- (b) 60 days of paid-up PERS service if the member was an employee of the legislature during each of five legislative sessions and was first hired under the PERS before May 30, 1987; or
- (c) 80 days of paid-up PERS service if the member was an employee of the legislature during each of five legislative sessions and was first hired under the PERS after May 29, 1987; or
- (d) two years of paid-up PERS service if the member is vested in the Teachers' Retirement System.

Type:

Life only, level income, or optional joint and survivor benefit (actuarially reduced).

Amount:

Actuarial equivalent of normal retirement benefit (see 9 above) based on service and compensation to early retirement date.

(11) Deferred Benefit

Eligibility:

Refer to (9) Normal Retirement Benefit and (10) Early Retirement Benefit, above. Withdrawal of employee contributions voids rights to benefits.

Type:

Life only, level income, or optional joint and survivor benefit (actuarially reduced).

Amount:

Refer to (9) Normal Retirement Benefit and (10) Early Retirement Benefit, above.

(12) Indebtedness Owing At Retirement

If on the date of appointment to retirement, a member has not paid the full indebtedness amount including interest to the retirement fund, the member's retirement benefit will be reduced for life by an amount equal to the actuarial equivalent of the outstanding indebtedness at the time of retirement. Note: Indebtedness must be paid in full for service used to qualify the member to receive a retirement benefit.

(13) Re-employment of a Retired Member

If a retired member is reemployed in a position covered under the system, the retirement benefit will be suspended during the period of reemployment. During such period of reemployment, retirement contributions are mandatory.

A member who returns to PERS employment after retiring under the Retirement Incentive Program (RIP) will:

- (a) forfeit the three years of incentive credits that were granted; and
- (b) be indebted to the system in an amount equal to 110% of the benefits that were paid because of the member's participation in the RIP, including health insurance costs. The indebtedness is reduced by the amount that the member paid to participate.

(14) Disability Benefit

Occupational Disability:

Eligibility:

No age or service requirements.

Type:

Monthly benefit payable until death, recovery, or normal retirement.

Amount:

40% of gross monthly compensation (66-2/3% for police/fire members who participated before July 1, 1976, offset by any workers compensation) at date of disability. When the disabled member becomes eligible for normal retirement, the occupational disability benefit will terminate and the member will be appointed to normal retirement. The normal retirement benefit will be computed as if the member had been employed and had earned PERS credit during the period of occupational disability.

Non-Occupational Disability:

Eligibility:

Five or more years of credited service.

Type:

Monthly benefit payable until death, recovery, or normal retirement.

Amount:

Refer to (9) Normal Retirement Benefits on page 38. When the disabled member becomes eligible for normal retirement, the nonoccupational disability benefit will terminate. The period of time on nonoccupational disability is not included in the normal retirement benefit calculation.

(15) Death Benefit Before Retirement

Non-Occupational Death:

With less than one year of credited service, the member's contribution account balance,

including mandatory and voluntary contributions, indebtedness payments, and interest earned, will be paid to the designated beneficiary. With more than one, but less than five years of credited service, the beneficiary will also receive \$1,000 plus \$100 for each year of PERS service.

When the member is vested, the surviving spouse may elect to receive the benefits described above or a 50% joint and survivor option based on the member's average monthly compensation and credited service at the time of death.

Occupational Death:

Upon an occupational death of an active member, a monthly survivor's pension equal to 40% (66-2/3% for police/fire members who participated before July 1, 1976) of gross monthly compensation at date of death or disability, if earlier, may be paid to the spouse or if there is no spouse, to the member's dependent children. On the member's normal retirement date, the benefit converts to a normal retirement benefit based on the member's salary on the date of death or disability and credited service, including the period from the date of death or disability to the normal retirement date.

(16) Death Benefits After Retirement

If a member dies after retirement, the designated beneficiary will receive the member's contribution account balance, minus any benefits already paid. If the member elected a survivor option at retirement, the eligible spouse will receive a continuing monthly benefit for the rest of his or her life.

(17) Post-Retirement Pension Adjustment

A post-retirement pension adjustment will be issued to an eligible benefit recipient each year if the consumer price index (CPI) increases during the prior calendar year. The adjustment to the benefit, excluding the cost-of-living allowance, will be:

- (a) 75% of the CPI increase (not to exceed 9%) for recipients who are at least age 65 or on PERS disability; or
- (b) 50% of the CPI increase (not to exceed 6%) for recipients who are at least age 60 but under 65, and for recipients who have been receiving benefits for at least five years who are under age 60.

(Ad hoc PRPA's of up to 4% may be issued to retirees who were first hired before July 1, 1986 if the CPI has increased and the financial condition of the fund will permit an increase).

(18) Cost-of-Living Allowance

Starting at age 65, a retired member who remains in Alaska is eligible for a cost-of-living allowance (COLA) equal to 10% of the base retirement benefit or \$50 per month, whichever is greater. Members who were first hired before July 1, 1986 or who are receiving disability benefits are eligible for COLA, regardless of age.

(19) Voluntary Contributions

An employee may voluntarily contribute up to 5% of his or her salary. Voluntary contributions are recorded in a separate account and are payable to the:

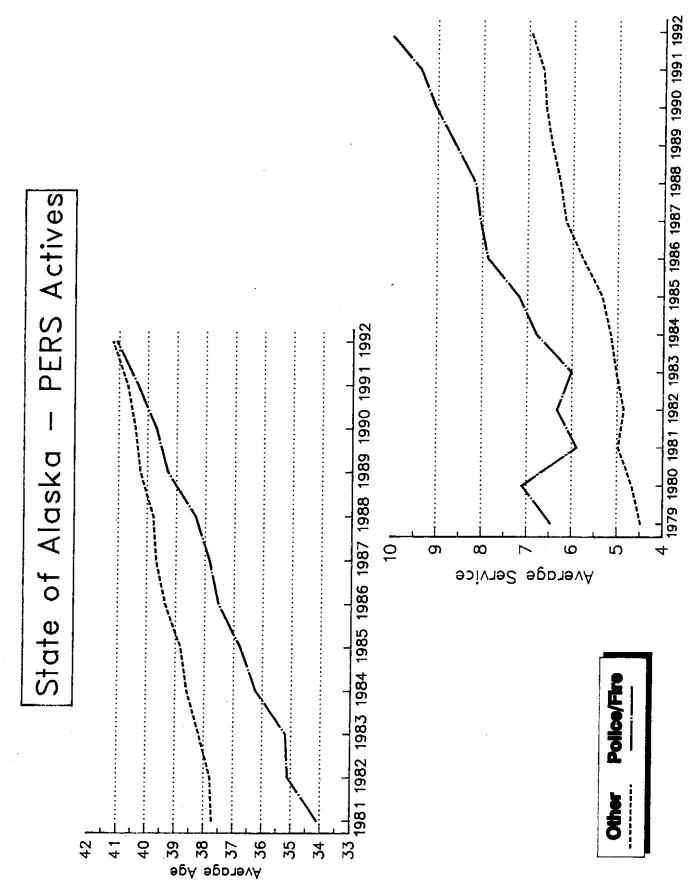
- (a) member in a lump sum upon termination of employment;
- (b) member's beneficiary in a lump sum if the member dies; or
- (c) member in a lump sum, life annuity, or payments over a designated period of time when the member retires.

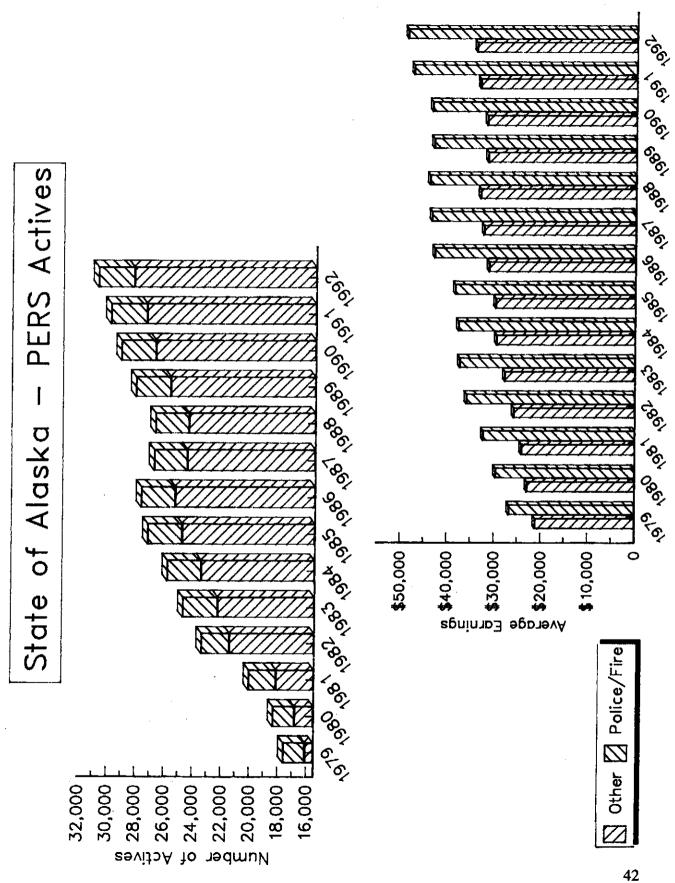
2.2(a) Participant Census Information - Total PERS as of June 30

			<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
Activ	e Members						
(1)	Number		26,676	28,044	29,086	29,840	30,721
(2)	Average Age		39.67	40.17	40.37	40.68	41.21
(3)	Average Credited Service		6.45	6.66	6.82	6.91	7.22
(4)	Average Annual Salary	\$	34,052	\$ 32,550	\$ 32,733	\$ 34,444	\$ 35,280
Retir	ees and Beneficiaries						
(1)	Number		6,702	6,967	7,365	8,358	8,704
(2)	Average Age		62.82	63.28	63.62	63.15	63.58
(3)	Average Monthly Benefit:						
	Base	\$	791	\$ 795	\$ 797	\$.864	\$ 867
	C.O.L.A.		64	64	61	66	64
	P.R.P.A.		90	98	110	108	144
	TOTAL		945	957	968	1,038	1,075
Veste	d Terminations						
(1)	Number		1,898	2,314	2,745	3,015	3,249
(2)	Average Age		42.77	42.97	42.96	43.20	43.59
(3)	Average Monthly Benefit	\$	504	\$ 519	\$ 536	\$ 556	\$ 582
Non-	Vested Terminations With Accou	nt Balaı	ıces				
(1)	Number		3,101	3,365	3,695	4,108	4,380
(2)	Average Account Balance	\$	2,100	\$ 1,891	\$ 2,045	\$ 2,124	\$ 2,251

2.2(b) Additional Information - Active Members by Type of Status as of June 30

		<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
Activ	e Police & Fire					
(1)	Number	2,327	2,414	2,419	2,533	2,515
(2)	Average Age	38.35	39.31	39.70	40.35	41.08
(3)	Average Credited Service	8.16	8.60	9.05	9.38	10.10
(4)	Average Annual Salary	\$ 43,947	\$ 43,082	\$ 43,462	\$ 47,470	\$ 48,812
(5)	Number Vested	1,505	1,598	1,683	1,795	1,842
(6)	Percent Who Are Vested	64.7%	66.2%	69.6%	70.9%	73.2%
Activ	e "Other" Members					
(1)	Number	24,349	25,630	26,667	27,307	28,206
(2)	Average Age	39.80	40.25	40.43	40.71	41.22
(3)	Average Credited Service	6.29	6.48	6.62	6.68	6.96
(4)	Average Annual Salary	\$ 33,106	\$ 31,558	\$ 31,760	\$ 33,236	\$ 34,073
(5)	Number Vested	12,191	13,345	14,109	14,234	14,640
(6)	Percent Who Are Vested	50.1%	52.1%	52.9%	52.1%	51.9%





2.2(c) Distribution of Active Police and Fire Participants

	Annual E	Earnings By Age -		Аппиа	l Earnings	By Credited Serv	/ice
	Number	-	Average	Years	Number	Total	Average
Age	of	Annual	Annual	of	of	Annual	Annual
Groups	People	Earnings	Earnings	<u>Service</u>	People	Earnings	<u>Earnings</u>
	0	s 0	\$ 0	0	78	\$ 1,934,928	\$ 24,807
0-19	0	Ψ -	-	1	126	4,568,269	36,256
20-24	35	1,213,346	34,667	1		•	40,276
25-29	155	6,055,308	39,067	2	131	5,276,092	
30-34	314	14,314,561	45,588	3	173	7,123,535	41,177
35-39	598	29,398,700	49,162	4	165	6,902,458	41,833
40-44	653	33,307,759	51,007	0- 4	673	25,805,292	38,344
45-49	489	25,339,828	51,820	5- 9	638	29,112,921	45,632
50-54	207	10,301,972	49,768	10-14	613	32,098,628	52,363
55-59	52	2,356,564	45,319	15-19	417	24,589,002	58,966
60-64	12	474,118	39,510	20-24	156	9,973,081	63,930
65-69	0	0	0	25-29	16	1,074,884	67,180
70-74	0	0	0	30-34	2	108,348	54,174
75-79	0	0	0	35-39	0	0	0
80+	0	0	0	40+	0	0	0
Total	2,515	\$122,762,156	\$ 48,812	Total	2,515	\$122,762,156	\$ 48,812

Years of Credited Service By Age

	Years of Service											
<u>Age</u>	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40+</u>	<u>Total</u>		
0-19	0	0	0	0	0	0	0	0	0	0		
20-24	35	0	0	0	0	0	0	0	0	35		
25-29	120	34	1	0	0	0	0	0	0	155		
30-34	125	122	62	5	0	0	0	0	0	314		
35-39	111	186	207	89	5	0	0	0	0	598		
40-44	139	149	164	158	43	0	0	0	0	653		
45-49	85	95	106	109	85	9	0	0	0	489		
50-54	37	41	58	44	20	6	1	0	0	207		
55-59	17	9	13	8	3	1	1	0	0	52		
60-64	4	2	2	4	0	0	0	0	0	12		
65-69	ò	0	0	0	0	0	0	0	0	0		
70-74	Ō	Ô	0	0	0	0	0	0	0	0		
75-79	Ö	Ô	0	0	0	0	0	0	0	0		
80+	_0	_0	0	_0	0	<u>0</u>	_0	_0	_0	0		
Total	673	638	613	417	156	16	2	0	0	2,515		

2.2(d) Distribution of Active "Other" Participants

	- Annual I	Earnings By Age -		Annua	Earnings	By Credited Serv	rice
	Number	· ·	Average	Years	Number	Total	Average
Age	of	Annual	Annual	of	of	Annual	Annual
Groups	<u>People</u>	Earnings	Earnings	Service	People 1	Earnings	<u>Earnings</u>
0-19	69	\$ 961,068	\$ 13,929	0	3,522	\$ 63,832,916	\$ 18,124
20-24	845	18,227,062	21,570	1	3,193	90,436,280	28,323
25-29	2,357	61,327,940	26,019	2	2,659	78,431,392	29,497
30-34	4,116	125,873,736	30,582	3	2,327	72,772,192	31,273
35-39	5,651	189,269,856	33,493	4	1,878	61,488,756	32,742
40-44	5,854	216,544,849	36,991	0- 4	13,579	366,961,536	27,024
45-49	4,459	167,410,960	37,545	5- 9	6,979	253,560,878	36,332
50-54	2,698	104,442,832	38,711	10-14	4,609	193,372,256	41,955
55-59	1,333	48,177,568	36,142	15-19	2,130	99,447,776	46,689
60-64	629	21,954,442	34,904	20-24	682	34,987,740	51,302
65-69	153	5,526,668	36,122	25-29	199	11,089,291	55,725
70-74	36	1,134,029	31,501	30-34	25	1,480,786	59,231
75-79	4	146,571	36,643	35-39	2	101,560	50,780
80+	2	55,999	28,000	40+	1	51,757	<u>51,757</u>
Total	28,206	\$961,053,580	\$ 34,073	Total	28,206	\$961,053,580	\$ 34,073

Years of Credited Service By Age

	Years of Service											
<u>Age</u>	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40+</u>	<u>Total</u>		
0-19	69	0	0	0	0	0	0	0	0	69		
20-24	835	10	0	0	0	0	0	0	0	845		
25-29	1,991	353	13	0	0	0	0	0	0	2,357		
30-34	2,557	1,123	411	25	0	0	0	0	0	4,116		
35-39	2,744	1,613	987	296	11	0	0	0	0	5,651		
40-44	2,209	1,568	1,246	675	152	4	0	0	0	5,854		
45-49	1,566	1,126	924	489	267	86	1	0	0	4,459		
50-54	849	647	587	368	157	78	12	0	0	2,698		
55-59	450	331	279	194	53	18	8	0	0	1,333		
60-64	223	163	125	69	32	12	3	2	0	629		
65-69	62	42	29	12	6	1	1	0	0	153		
70-74	22	1	6	2	4	0	0	0	1	36		
75-79	1	1	2	0	0	0	0	0	0	4		
80+	1	1	0	0	_0	_0	_0	0	_0	2		
Total	13,579	6,979	4,609	2,130	682	199	25	2	1	28,206		

2.2(e) Statistics on New Retirees Police and Fire Members During the Year Ending June 30

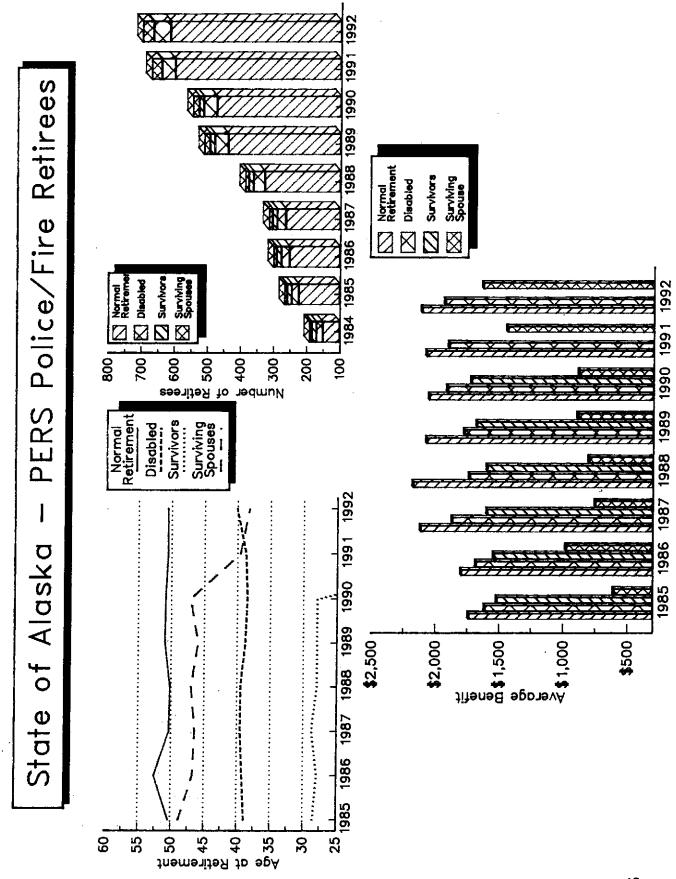
		<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
Serv	ice					
(1)	Number	64	9	36	96	25
(2)	Average Age at Retirement	49.39	52.55	51.19	50.97	51.77
(3)	Average Monthly Benefit	\$ 2,467	\$ 1,536	\$ 1,551	\$ 2,008	\$ 1,786
Disa	bility					
(1)	Number	7	8	1	6	8
(2)	Average Age at Retirement	40.30	39.71	38.05	40.71	44.00
(3)	Average Monthly Benefit	\$ 1,147	\$ 1,662	\$ 1,171	\$ 2,216	\$ 1,502
Surv	ivor (including surviving spouse)					
(1)	Number	1	. 1	1	1	2
(2)	Average Age at Retirement	50.91	52.30	52.62	47.9	28.61
(3)	Average Monthly Benefit	\$ 181	\$ 611	\$ 312	\$ 1,114	\$ 1,570
Tota	l					
(1)	Number	72	18	38	103	35
(2)	Average Age at Retirement	48.53	46.83	50.88	50.34	48.67
(3)	Average Monthly Benefit	\$ 2,307	\$ 1,541	\$ 1,508	\$ 2,011	\$ 1,709

2.2(f) Statistics on New Retirees "Other" Members During the Year Ending June 30

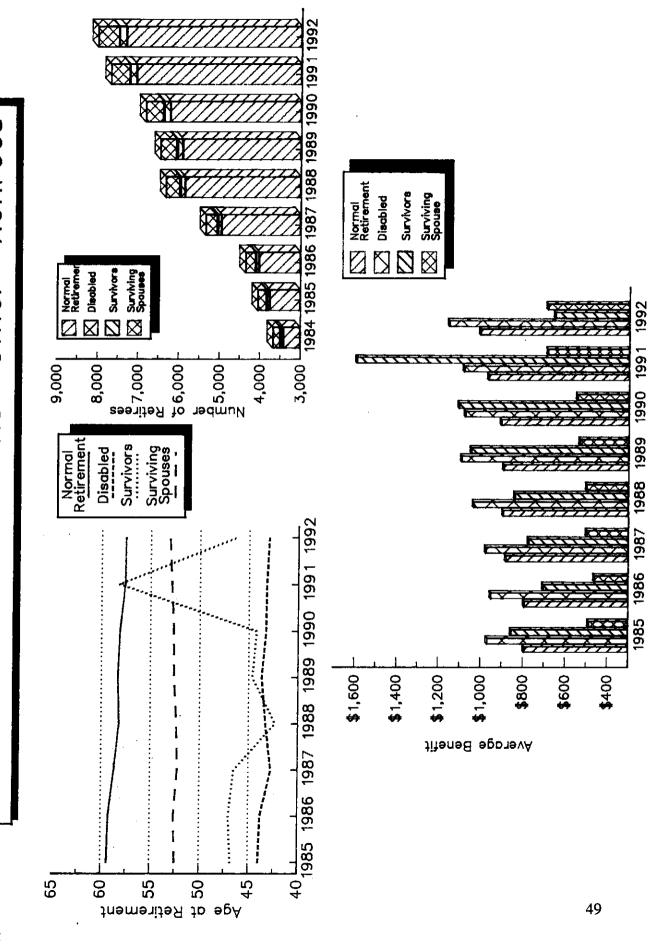
		<u>1988</u>	<u>1989</u>	<u>19</u>	990 <u>199</u> 2	<u>L</u>	<u>1992</u>
Serv	ice						
(1)	Number	972	309	4	120 829)	404
(2)	Average Age at Retirement	56.53	57.44	56	.40 55.82	2	56.84
(3)	Average Monthly Benefit	\$ 982	\$ 746	\$ 8	353 \$ 1,121.36	5 \$	912.32
Disa	bility						
(1)	Number	22	25		22 20)	15
(2)	Average Age at Retirement	46.53	46.61	45	.85 45.38	3	43.87
(3)	Average Monthly Benefit	\$ 1,073	\$ 1,061	\$ 9	955 \$ 944.17	7 \$	999.15
Surv	vivor (including surviving spouse)						
(1)	Number	20	18		15 27	7	16
(2)	Average Age at Retirement	46.02	45.38	53	.05 60.33	5	49.44
(3)	Average Monthly Benefit	\$ 515	\$ 725	\$	748 \$ 674.75	5 \$	586.10
Tota	al						
(1)	Number	1,014	352	•	457 870	5	435
(2)	Average Age at Retirement	56.11	56.05	55	5.78 55.73	2	56.12
(3)	Average Monthly Benefit	\$ 975	\$ 767	\$	855 \$ 1,103.5	5 \$	903.32

2.2(g) Statistics on All Retirees as of June 30, 1992

		Police & Fire	"Other"
Serv	rice Retirement		
(1)	Number, June 30, 1991	600	7,049
(2)	Net Change During FY92	15	255
(3)	Number, June 30, 1992	615	7,304
(4)	Average Age At Retirement	50.47	57.49
(5)	Average Age Now	57.09	64.79
(6)	Average Monthly Benefit	\$ 2,110.90	\$ 1,005.28
Surv	viving Spouse's Benefits		
(1)	Number, June 30, 1991	31	467
(2)	Net Change During FY92	2	51
(3)	Number, June 30, 1992	33	518
(4)	Average Age At Retirement	38.28	53.06
(5)	Average Age Now	49.67	62.60
(6)	Average Monthly Benefit	\$ 1,634.21	\$ 686.81
Surv	vivor's Benefits		
(1)	Number, June 30, 1991	0	2
(2)	Net Change During FY92	0	1
(3)	Number, June 30, 1992	0	3
(4)	Average Age At Retirement		46.33
(5)	Average Age Now		48.55
(6)	Average Monthly Benefit		\$ 651.50
Disa	bilities		
(1)	Number, June 30, 1991	41	168
(2)	Net Change During FY92	10	12
(3)	Number, June 30, 1992	51	180
(4)	Average Age At Retirement	40.14	42.95
(5)	Average Age Now	44.29	47.84
(6)	Average Monthly Benefit	\$ 1,930.80	\$ 1,153.01
Tota	l Number of Retirees	699	8,005



PERS "Other" Refirees State of Alaska



2.2(h) Distribution of Annual Benefits for Police and Fire Benefit Recipients

	Annual I	Benefit By Age -		Annual Ben	efit By Ye	ears Since Retire	ement
	Number		Average	Years	Number	Total	Average
Age	of	Annual	Annual	of	of	Annual	Annual
Groups	People	<u>Benefit</u>	<u>Benefit</u>	Service	<u>People</u>	<u>Benefit</u>	<u>Benefit</u>
0-19	0	\$ 0	\$ 0	0	35	\$ 717,687	\$ 20,505
20-24	1	6,571	6,571	1	103	2,483,673	24,113
25-29	2	37,684	18,842	2	62	1,491,782	24,061
30-34	2	37,724	18,862	3	22	451,814	20,537
35-39	13	279,668	21,513	4	84	2,391,112	28,466
40-44	43	1,169,887	27,207	0- 4	306	7,536,068	24,628
45-49	124	3,720,276	30,002	5- 9	232	6,363,389	27,428
50-54	156	3,941,414	25,265	10-14	110	2,529,888	22,999
55-59	141	3,518,627	24,955	15-19	44	806,315	18,325
60-64	106	2,633,965	24,849	20-24	7	171,612	24,516
65-69	72	1,450,949	20,152	25-29	0	0	0
70-74	27	445,771	16,510	30-34	0	0	0
75-79	9	118,123	13,125	35-39	0	0	0
80 +	3	46,613	<u>15,538</u>	40+	0	0	0
Total	699	\$17,407,272	\$ 24,903	Total	699	\$17,407,272	\$ 24,903

Years Since Retirement by Age

	Years Since Retirement										
<u>Age</u>	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40+</u>	<u>Total</u>	
0.10	0	0	0	0	0	٥	0	0	Λ	0	
0-19		Ī	0	1	0	0	0	0	^	1	
20-24	0	0	U	1	U	U	Ü	Ü	Ū	1	
25-29	2	0	0	0	0	0	0	0	0	2	
30-34	2	0	0	0	0	0	0	0	0	2	
35-39	6	4	2	1	0	0	0	0	0	13	
40-44	35	6	0	1	1	0	0	0	0	43	
45-49	81	31	7	4	1	0	0	0	0	124	
50-54	87	5 7	6	5	1	0	0	0	0	156	
55-59	64	58	17	2	0	0	0	0	0	141	
60-64	21	47	33	5	0	0	0	0	0	106	
65-69	7	21	33	10	1	0	0	0	0	72	
70-74	0	7	7	12	1	0	0	0	0	27	
75-79	0	1	5	2	1	0	0	0	0	9	
80 +	_1	0	0	_1	1	_0	<u> </u>	<u>0</u>	_0	3	
Total	306	232	110	44	7	0	0	0	0	699	

2.2(i) Distribution of Annual Benefits for "Other" Benefit Recipients

	Annual I	Benefit By Age		Annual Bene	fit By Ye	ears Since Retire	ement
	Number		Average	Years	Number	Total	Average
Age	of	Annual	Annual	of	of	Annual	Annual
Groups	People	<u>Benefit</u>	<u>Benefit</u>	<u>Service</u>	<u>People</u>	<u>Benefit</u>	<u>Benefit</u>
							_
0-19	0	\$ 0	\$ 0	0	435	\$ 4,715,315	\$ 10,840
20-24	1	1,669	1,669	1	885	11,623,480	13,134
25-29	1	7,739	7,739	2	648	7,329,842	11,311
30-34	11	103,277	9,389	3	313	3,170,033	10,128
35-39	25	276,202	11,048	4	948	11,818,022	12,466
40-44	67	705,301	10,527	0- 4	3,229	38,656,692	11,972
45-49	160	1,666,119	10,413	5- 9	2,550	33,112,187	12,985
50-54	887	9,449,515	10,653	10-14	1,336	14,247,459	10,664
55-59	1,570	20,565,732	13,099	15-19	795	7,902,693	9,940
60-64	1,665	22,361,441	13,430	20-24	86	855,266	9,945
65-69	1,546	17,812,564	11,522	25-29	7	83,998	12,000
70-74	1,106	12,247,920	11,074	30-34	2	36,034	18,017
75-79	597	6,339,120	10,618	35-39	0	0	0
80+	369	3,357,730	9,100	40+	0	0	0
Total	8,005	\$94,894,329	\$11,854	Total	8,005	\$94,894,329	\$ 11,854

Years Since Retirement By Age

				Years	Since Ret	irement				
<u>Age</u>	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40+</u>	<u>Total</u>
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	1	0	0	0	0	0	0	0	0	1
30-34	9	1	1	0	0	0	0	0	0	11
35-39	17	6	2	0	0	0	0	0	0	25
40-44	40	14	8	5	0	0	0	0	0	67
45-49	128	22	8	2	0	0	0	0	0	160
50-54	777	81	19	8	2	0	0	0	0	887
55-59	1,061	474	24	9	1	1	0	0	0	1,570
60-64	660	799	193	11	2	0	0	0	0	1,665
65-69	397	638	423	87	1	0	0	0	0	1,546
70-74	113	394	368	229	2	0	0	0	0	1,106
75-79	16	91	234	249	7	0	0	0	0	597
80+	9	30	56	<u>195</u>	<u>71</u>	<u>_6</u>	_2	_0	_0	<u>369</u>
Total	3,229	2,550	1,336	795	86	7	2	0	0	8,005

2.3 Actuarial Basis

Valuation of Liabilities

A. Actuarial Method - Projected Unit Credit (no change). Liabilities and contributions shown in the report are computed using the Projected Unit Credit method of funding. The unfunded accrued liability is amortized over 25 years. Any funded surpluses are amortized over five years.

The objective under this method is to fund each participant's benefits under the plan as they accrue. Thus, each participant's total pension projected to retirement with salary scale is broken down into units, each associated with a year of past or future service. The principle underlying the method is that each unit is funded in the year for which it is credited. Typically, when the method is introduced there will be an initial liability for benefits credited for service prior to that date, and to the extent that this liability is not covered by Assets of the Plan there is an Unfunded Liability to be funded over a chosen period in accordance with an amortization schedule.

An <u>Accrued Liability</u> is calculated at the valuation date as the present value of benefits credited with respect to service to that date.

The <u>Unfunded Liability</u> at the valuation date is the excess of the Accrued Liability over the Assets of the Plan. The level annual payment to be made over a stipulated number of years to amortize the Unfunded Liability is the <u>Past Service Cost</u>.

The <u>Normal Cost</u> is the present value of those benefits which are expected to be credited with respect to service during the year beginning on the valuation date.

Under this method, differences between the actual experience and that assumed in the determination of costs and liabilities will emerge as adjustments in the Unfunded Liability, subject to amortization.

B. Actuarial Assumptions -

- 1. Investment Return 8.75% per year, compounded annually, net of expenses.
- 2. Salary Scale 6.5% per year for the first five years of employment and 5.5% per year thereafter.

3. Total Inflation

Total inflation as measured by the Consumer Price Index for urban and clerical workers for Anchorage is assumed to increase 5% annually.

4. Health Cost Trend

FY92 -	12.5%
FY93 -	11.5%
FY94 -	10.5%
FY95 -	9.5%
FY96 -	8.5%
FY97 and la	ter -7.5%

5. Mortality

1984 Unisex Pension Mortality Table, set forward one year for male and police/fire members, and set backward four years for female members. Deaths are assumed to be occupational 85% of the time for Police/Fire, 35% for "Others".

6. Turnover

Based upon the 1986-90 actual total turnover experience. (See Table 1).

7. Disability

Incidence rates, based upon the 1986-90 actual experience, in accordance with Table 2. Post-disability mortality in accordance with rates published by the Pension Benefit Guaranty Corporation to reflect mortality of those receiving disability benefits under Social Security. Disabilities are assumed to be occupational 85% of the time for Police/Fire, 35% for "Others".

8. Retirement Age

Retirement rates based upon the 1986-90 actual experience in accordance with Table 3.

9. Spouse's Age

Wives are assumed to be four years younger than husbands.

10. Dependent Children

Benefits to dependent children have been valued assuming members who are not single have one dependent child.

Contribution Refunds 11.

100% of those terminating after age 35 with five or more years of service will leave their contributions in the fund and thereby retain their deferred vested benefit. All others who terminate are assumed to have their contributions refunded.

C.O.L.A. 12.

Of those benefit recipients who are eligible for the C.O.L.A., 71% are assumed to remain in Alaska

and receive the C.O.L.A.

13. **New Entrants** Growth projections are made for the active PERS population under three scenarios:

Pessimistic:

1% per year 3% per year

Median: Optimistic:

5% per year

14. Expenses Expenses are covered in the investment return

assumption.

Valuation of Assets

Based upon the five-year average ratio between actuarial and book values of the System's assets. Prior to June 30, 1992, the actuarial value of assets equalled the market value, except that fixed income investments were carried at book value. Effective June 30, 1992, the actuarial value of assets equals the full market value. Assets are accounted for on an accrued basis and are taken directly from audited financial statements provided by KPMG Peat Marwick. Valuation assets cannot be outside the range of book and actuarial values.

Valuation of Medical Benefits

Medical benefits for retirees are provided by the payment of premiums from the fund. A pre-65 cost and lower post-65 cost (due to Medicare) are assumed such that the total rate for all retirees equals the present premium rate. These medical premiums are then increased with the health inflation assumption. The actuarial cost method used for funding retirement benefits is also used to fund health benefits.

For FY93, the pre-65 monthly premium is \$310.80 and the post-65 premium is \$108.37, based on a total blended premium of \$226.90. For FY94, the pre-65 monthly premium is assumed to be \$346.54 and the post-65 premium is assumed to be \$120.83, based on a total blended premium of \$252.99. The FY93 rates and the pre-65/post-65 split were provided by Deloitte & Touche.

Table 1

Alaska PERS Total Turnover Assumptions

Select Rates of Turnover During the First 10 Years of Employment				Ultimate Rates of Turnover After the First 10 Years of Employment		
Police and Fire						
Year of	A	ge at Hire	e			
Employment	<u>20-29</u>	<u>30-39</u>	<u>40+</u>	<u>Age</u>	<u>Rate</u>	
1	.22	.18	.10	20-39	.03	
2	.19	.13	.10	40+	.01	
3	.13	.12	.10			
4	.12	.12	.10			
5	.10	.10	.10			
6	.08	.08	.08			
7	.07	.07	.07			
8	.06	.06	.06			
. 9	.05	.05	.05			
10	.04	.04	.04			
Others:						
Year of	A	ge at Hire	e			
Employment	<u>20-29</u>		<u> 30+</u>	<u>Age</u>	<u>Rate</u>	
1	.30		.23	20-29	.065	
2	.23		.18	30-34	.060	
3	.20		.14	35-44	.055	
4	.16		.13	45+	.050	
5	.16		.13			
6	.14		.13			
7	.12		.12			
8	.11		.11			
9	.09		.09			
10	.08		.08			

Table 2 Alaska PERS Disability Rates Annual Rates Per 1,000 Employees

Age	Police & Fire Rate	"Other" Member Rate
		14
20	.85	.14
21	.87	.14
22	.90	.14
23	.94	.15
24	.98	.15
25	1.03	.15
26	1.08	.15
27	1.13	.15
28	1.19	.16
29	1.25	.16
30	1.31	.16
31	1.37	.17
32	1.43	.17
33	1.44	.25
	1.48	.34
34 35	1.55	.44
	1.65	.53
36	1.78	.64
37		.0+ .75
38	1.94	.87
39	2.13	
40	2.35	.99
41	2.60	1.12
42	2.88	1.25
43	3.19	1.39
44	3.53	1.53
45	3.90	1.68
46	4.30	1.84
47	4.73	2.00
48	5.19	2.17
	5.68	2.34
49	6.20	2.52
50		
51	6.75	2.70
52	7.33	2.89
53	7.94	3.08
54	8.58	3.29
55	9.25	3.49
56	9.95	3.70
57	10.68	3.92
58	11.44	4.14
59	12.23	4.37
60	13.05	4.61
61	13.90	4.84
62	14.78	5.09
63	15.69	5.34
William M. Mercer, Incomporated	16.63	5.60

Table 3

Alaska PERS
Retirement Rates

<u>Age</u>	Police & Fire Rate	"Other" Member Rate
50	.25	.11
51	.14	.08
52	.14	.08
53	.15	.08
54	.15	.08
55	.30	.19
56	.25	.16
57	.21	.13
58	.21	.12
59	.20	.11
60	.20	.17
61	.40	.14
62	1.00	.21
63	1.00	.22
64	1.00	.22
65	1.00	.31
66	1.00	.61
67 & Up	1.00	1.00

For ages less than 50, employees are assumed to retire two years after the earliest age they are eligible to retire.

PERSVL92.jls