

Teachers' Retirement System

Actuarial Valuation Report as of June 30, 1992

Prepared by:

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April 1, 1993

State of Alaska
Teachers' 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 Teachers' 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 85.7% to 89.7% during the year. Over the years, progress has been made toward achieving the funding objectives of the System.



Teachers' Retirement Board April 1, 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

Peter Godfu

Associate

BRM/JWJ/PLG/jls

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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 Teachers' 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;
- (4) 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.

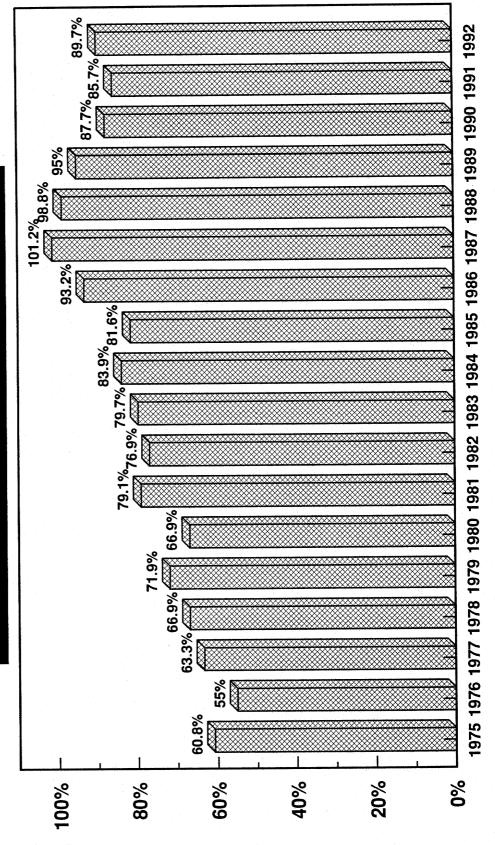
The principle results are as follows:

1991	<u> 1992</u>
\$1,779,579	\$2,001,864**
1,749,725	1,872,660
2,075,405	2,231,746
101.7%	106.9%
85.7%	89.7%
	\$1,779,579 1,749,725 2,075,405 101.7%

^{*} In thousands.

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

STATE OF ALASKA TRS FUNDING RATIO HISTORY



Employer of for Fiscal	Contribution Rates Year:	<u>1994</u>	<u>1995</u>
(a)	Normal Cost Rate	9.05%	8.57%
(b)	Past Service Rate	6.54%	4.79%
(c)	Total Contribution Rate	15.59%	13.36%
(d)	Actuarial Projection Rate	12.00%	12.00%

Analysis of the Valuation

As shown in the Highlights section of the report, the funding ratio as of June 30, 1992 has increased from 85.7% to 89.7%, an increase of 4.0%. The total employer contribution rate has reduced from 15.59% of payroll for FY94 to 13.36% for FY95, a reduction of 2.23% 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 Year	Monthly Premium Per Retiree For Health Coverage	Annual Percentage Increase	Average Annual Increase Since 1978
1977	\$ 34.75		
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 \$62,303,000, which increased the funding ratio by 2.8% and lowered the employer contribution rate by 1.30%.

(3) Investment Performance

The approximate rate of return based on market value of system assets was 11.36%. 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 8.99%, compared to the 9.00% investment return assumption. This effectively produced no gain or loss to the System from investment performance.

(4) Salary Increases

In recent years salary increases have been less than anticipated in the valuation assumptions. This was again true last year. Salary experience resulted in an actuarial gain which generated a reduction in the total employer contribution rate equal to 0.34%.

(5) Employee Data

Section 2.2 provides statistics on active and inactive participants. The number of active participants increased 3.8% from 8,903 at June 30, 1991 to 9,238 at June 30, 1992. This was in excess of all three population increase scenarios reviewed last year, and produced a gain to the System from more Tier 2 actives entering the System than expected. The average age of active participants increased from 42.28 to 42.74 and average credited service increased from 10.48 to 10.75 years.

The number of retirees and beneficiaries increased 1.6% from 3,544 to 3,602, and their average age increased from 61.64 to 61.97. There was a 10.1% increase in the number of vested terminated participants from 645 to 710. Their average age increased from 45.57 to 46.22.

The overall effect of these participant data changes was an actuarial gain to the System, resulting in a decrease in the past service rate equal to 0.44%. These demographic changes also had the effect of decreasing the normal cost rate by 0.15%.

(6) Actuarial Projections

At the Fall 1991 Board Meetings, the TRS 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 1.6, Actuarial Projections, contains the results of this analysis.

This type of information can be especially useful to two-tiered systems, such as TRS. 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 1.6, based on the actuarial assumptions and cost method, future contribution rates are expected to decline, and then slowly increase in 15 to 20 years.

Provided the Board adopts a long-term strategy consistent with the nature of the System, sound actuarial principles would support leveling out this contribution pattern to anticipate the second tier provisions coming into effect. In this way, a more stable contribution pattern could be adopted to help the employers better budget retirement expenses. This enhanced projection technique would be used annually so that a continuous tracking of the contribution rate to the requirements could be made. Appropriate adjustments to the rate would still be proposed annually, but they should be much smaller than those seen in the past.

We recommend that the employer contribution rate adopted for FY95 remain 12.00% under this approach.

This rate includes a degree of conservatism for the following reasons:

- (a) Actuarial valuations are based on several assumptions, and the projection technique adds more. Actual system experience will vary from that assumed, so a degree of margin is appropriate when adopting a longer term rate.
- (b) Sound actuarial principles also suggest that retirement systems should fund employees' benefits while they are working. By leveling out the two-tier phenomenon, intergenerational inequities could occur. Since current contribution requirements are higher, the level rate is set higher than it theoretically needs to be, to allocate proportionately more of the cost to current generations and thus reduce the inequities.

Summary

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

(1)	Last year's total employer contribution rate	15.59%
(2)	Change in past service rate due to retiree medical insurance	0.0%
(3)	Change in normal cost rate due to retiree medical insurance	0.0%
(4)	Change due to investment performance	0.0%
(5)	Decrease due to salary increases	(0.34%)
(6)	Decrease in past service rate due to demographic experience	(0.44%)
(7)	Decrease in normal cost rate due to demographic experience	(0.15%)
(8)	Decrease in total employer contribution rate due to change in asset valuation method	(1.30%)
(9)	Total employer contribution rate this year	13.36%
(10)	Effect of enhanced Actuarial Projection system	(1.36%)
(11)	Proposed employer contribution rate	12.00%

Section 1

Valuation Results

This section sets forth the results of the actuarial valuation.

Section 1.1(a) shows the distribution of the 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 shows the actuarial present values as of June 30, 1992.

Section 1.3 calculates the total contribution rate for FY95.

Section 1.4 calculates the actuarial gain or loss for FY92.

Section 1.5 provides disclosure information required by G.A.S.B. Statement No. 5.

Section 1.6 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	\$ 12,498	\$ 12,498
United States Government Bonds	371,996	424,620
Other United States Government Securities	23,123	22,846
Corporate Bonds	464,286	493,450
United States Common Stocks	690,855	795,659
Foreign Stocks	119,088	116,680
Real Estate Equities	89,908	70,478
Mortgages (net of reserves)	58,369	66,053
Net Accrued Receivables	29,654	29,654
Total Assets	\$1,859,777	\$2,031,938

^{*} 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)		\$1,824,663
Additions:		
Employee Contributions	\$ 44,338	
Employer Contributions	55,953	
Contributions for Retirement Incentive Program -		
Employee Contributions	0	
Employer Contributions	1,118	
Interest Income and Realized Gain/(Loss)	136,952	
Dividend Income	29,180	
Unrealized Gain (Loss) on Investments	46,746	314,287
Deductions:		
Medical Benefits	\$ 10,111	
Retirement Benefits	88,648	
Refunds of Contributions	2,641	
Administrative Expenses	5,612	107,012
Net Assets, June 30, 1992, (market value)		\$2,031,938
Approximate Investment Return Rate During the Year, Net of Administrative Expenses:		
Based on Market Values		11.36%
Based on Valuation Assets (prior to change in asset valuation method)		8.99%
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1.1(c) Development of Valuation Assets as of June 30, 1992 (in thousands)

		A	В	C
		Actuarial Values	Book <u>Values</u>	Ratio (A/B)
(1)	June 30, 1992	\$2,031,938	\$1,859,777	1.0926
(2)	June 30, 1991	1,824,663	1,706,315	1.0694
(3)	June 30, 1990	1,706,346	1,583,324	1.0777
(4)	June 30, 1989	1,545,877	1,434,984	1.0773
(5)	June 30, 1988	1,356,575	1,273,971	1.0648
(6)	Average Ratio			1.0764
(7)	Book Value at June 30, 1992			\$ 1,859,777
(8)	Valuation Assets at June 30, 1992, (6) x (7) but not outside			
	the range of book and actuarial values			\$ 2,001,864

1.2 Actuarial Present Values as of June 30, 1992 (in thousands)

	Normal <u>Cost</u>	Accrued <u>Liabilities</u>
Active Members		
Retirement Benefits	\$ 52,600	\$ 850,005
Termination Benefits	2,804	33,277
Disability Benefits	1,451	30,335
Death Benefits	1,261	20,544
Return of Contributions	3,197	15,580
Medical Benefits	16,497	204,693
Indebtedness	0	(31,219)
Retiree Incentive Program Receivables	0	(2,450)
Subtotal	\$ 77,810	\$1,120,765
Inactive Members		
Not Vested	\$ 0	\$ 11,005
Vested Terminations - Retirement Benefits	0	58,854
- Medical Benefits	0	29,452
Retirees & Beneficiaries - Retirement Benefits	0	886,729
- Medical Benefits	0	124,941
Subtotal	\$ 0	\$1,110,981
<u>Totals</u>	\$ 77,810	\$2,231,746

1.3 Development of Total Employer Contribution Rate - FY95 (in thousands)

Normal	Cost	Rate

		\$ 77,810
(1)	Total Normal Cost	\$ 77,810
(2)	Total Salaries	448,186
(3)	Normal Cost Rate, (1) / (2)	17.36%
(4)	Average Member Contribution Rate	8.79%
(5)	Employer Normal Cost Rate, (3) - (4)	8.57%
Past	Service Rate	
(1)	Accrued Liability	\$2,231,746
(2)	Valuation Assets	2,001,864
(3)	Total Unfunded Liability, (1) - (2)	229,882
(4)	Amortization Factor (25 year)	10.706612
(5)	Past Service Cost, (3) / (4)	21,471
(6)	Total Salaries	448,186
(7)	Past Service Rate, (5) / (6)	4.79%
<u>Tota</u>	l Employer Contribution Rate	13.36%

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

(1)	Unfunded Liability, June 30, 1991	\$ 295,826
(2)	Normal Cost for FY92	75,452
(3)	Interest on (1) and (2) at 9%	33,415
(4)	Employee Contributions for FY92	44,338
(5)	Employer Contributions for FY92	57,071
(6)	Interest on (4) and (5) at 9% for one-half year	4,563
(7)	Expected Unfunded Liability, June 30, 1992, (1) + (2) + (3) - (4) - (5) - (6)	298,721
(8)	Reduction in Unfunded Liability due to Change in Asset Valuation Method	62,303
(9)	Expected Unfunded Liability after Changes, (7) - (8)	236,418
(10)	Actual Unfunded Liability, June 30, 1992	229,882
(11)	Actuarial Gain/(Loss) for the Year, (9) - (10)	\$ 6,536

1.5 Disclosure for G.A.S.B. Statement No. 5

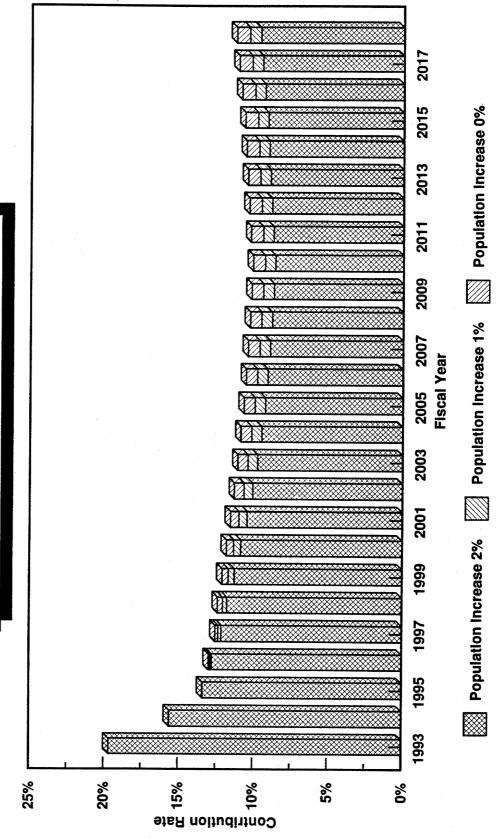
State of Alaska - T.R.S.

Disclosure for G.A.S.B. Statement 5 ('000 Omitted)

Totals For All Employers

	**************************************	**************************************	ted Benefit Obligati Current Employees		*****
ValuationDate	Retirees & Terminated	Contribs With Int		Pr Financed **** Non-Vested	<u>Total</u>
June 30, 1987	\$ 578,468	\$ 210,493	\$ 353,326	\$ 68,622	\$ 1,210,909
June 30, 1988	688,090	228,217	381,726	49,826	1,347,859
June 30, 1989	779,296	253,436	436,431	88,480	1,557,643
June 30, 1990	940,475	269,491	587,835	97,229	1,895,030
June 30, 1991	1,056,453	293,136	598,527	127,289	2,075,405
June 30, 1992	1,110,981	341,204	655,821	123,740	2,231,746

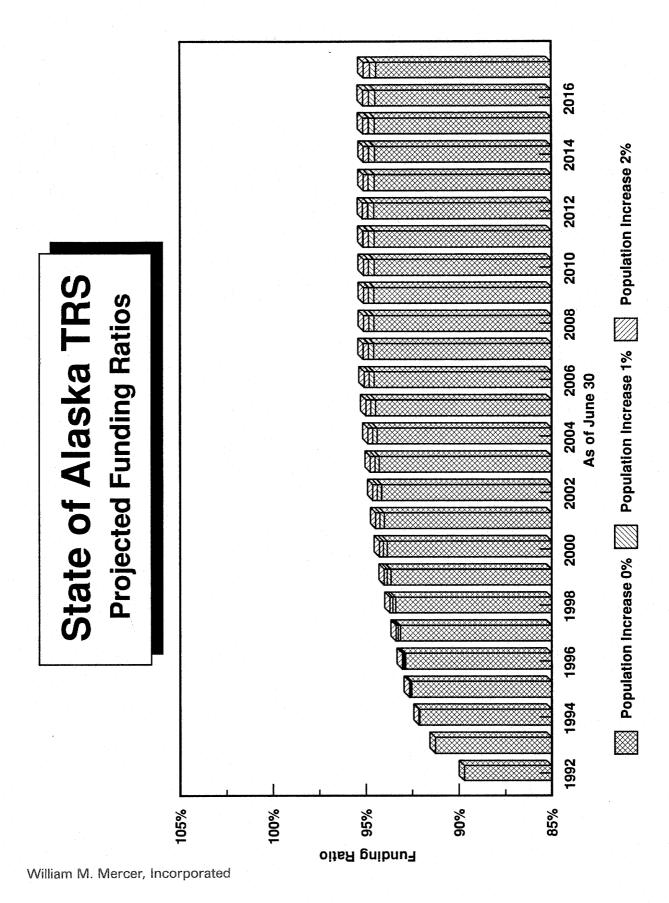
	****** Val	uation Assets *	*****	****** Market Value Assets ****								
ValuationDate	Net Assets Available For Benefits	Unfunded PBO	Assets as Percent of PBO	Net Assets Available For Benefits	Unfunded PBO	Assets as Percent of PBO						
June 30, 1987	\$ 1,225,009	\$ (14,100)	101%	\$ 1,303,464	\$ (92,555)	108%						
June 30, 1988	1,331,905	15,954	99%	1,356,575	(8,716)	101%						
June 30, 1989	1,480,389	77,254	95%	1,545,877	11,766	99%						
June 30, 1990	1,662,242	232,788	88%	1,706,346	188,684	90%						
June 30, 1991	1,779,579	295,826	86%	1,824,663	250,742	88%						
June 30, 1992	2,001,864	229,882	90%	2,031,938	199,808	91%						



William M. Mercer, Incorporated

Projected Contribution Rates

State of Alaska TRS



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Table 1
State of Alaska TRS
Financial Projections ('000 omitted)

Annual Population Increase

Ending Asset Value	2,191,794	2,746,469	3,133,396 3,331,650	3,530,002 3,727,465	3,924,718	4,315,772	4,702,994	4,894,625	5,279,065	5,476,379	5,891,042	6,109,499	6,339,728	6,847,172	7,125,491	7,420,587
nvestment Earnings		228,454														
Net I Contribs	9,342 (12,155)	(40,731) (40,731) (53,735)	(65,485)	(97,126)	(132,267)	(168, 265)	(203, 765)	(221,664)	(252,598)	(265,839)	(287,240)	(298,313)	(305,862)	(316,868)	(323,374)	(331,291)
Months Benefit Payments		150,175														
wing 12 Total Contribs	127,464	109,443	114,710	120,731	126,523	133,995	143,075	147,720	159,400	166,426	184,242	193, 167	204,623	229, 144	242, 193	255,160
	39,396	44,194	47,526	51,351	55,158	59,590	64,643	67, 161	73,296	76,839	83,925	84,468	92,179	101,602	106,313	111,024
Amounts During Employer Empl Contribs Cont	88,069	65,249 65,584	67,184 68,259	69,380	71,366	74,405	78,432	80,559	86,104	89,587	100,317	105,699	112,444	127,542	135,880	144,136
Flow A Employer Ctb Rate	19.65%	12.93%	12.36%	11.78%	11.26%	10.84%	10.51%	10.38%	10.16%	10.09%	10.34%	10.45%	10.55%	10.86%	11.06%	11.23%
Total Salaries	448,186	504,498 524,322	543,775	588,885	633,994	686,519	746,458	776,427	847,356	888,315	970,234	1,011,193	1,065,658			•
1 Surplus* (Deficit)	(229,882)	(206,623) (211,082)	(216,454)	(226,080)	(237,674)	(250,048)	(263,281)	(271,053)	(292,628)	(304,239)	(327,891)	(339,750)	(354,087)	(383, 264)	(399, 783)	(450,689)
July o	89.7%	92.5% 92.5% 92.9%	93.1%	93.6%	94.0%	94.3%	94.5%	%9.46	%4.6% 64.6%	%9.46	94.5%	64.5%	94.5%	94.5%	94.5%	%4.4%
Valuation Amounts on Total Accrued Fundin Assets Liability Rati		2,765,369 2,957,551	3,153,911 3,354,882	3,557,730	3,965,139	4,370,790	4,773,308	4,974,048	5,377,976	5,583,304	6,007,898	6,230,792	6,463,586	6,968,859	7,246,955	7,546,180
Total Assets	2,001,864	2,558,746 2,746,469		3,331,650								245	6, 109, 499	35.	,172	7,125,491
As of June 30	1992				2001											

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

State of Alaska TRS Financial Projections ('000 omitted)

Annual Population Increase

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Ending	Asset Value	1 1 1 1 1 1	2,191,794	2,377,312	2,561,570	2,751,695	2,945,653	3,145,095	3,348,064	3,552,250	3,756,647	3,962,093	4,167,686	4,374,616	4,583,283	4,793,433	5,005,159	5,219,054	5,440,325	5,669,859	5,910,988	6,165,066	6,432,404	6,719,300	7,030,142	7,365,573	7,726,909	8,114,469
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Investment Earnings	1	180,588	196,756	212,679	228,801	245,340	262,281	279,610	297,143	314,737	332,386	350,086	367,850	385,747	403,782	451,949	440,277	459,016	478,429	498,697	520,021	542,475	566,341	592,081	619,911	649,915	682,165
	Net I Contribs		9,342	(11,238)	(28,421)	(38,677)	(51,382)	(62,840)	(76,641)	(95,956)	(110,340)	(126,940)	(144,494)	(160,920)	(177,080)	(193,632)	(210,224)	(226,382)	(537,745)	(248,895)	(257,568)	(565,944)	(275, 137)	(579,445)	(281,240)	(284,480)	(288,579)	(504,605)
Months	Benefit Payments	1 1 1 1 1 1	118,123	125,871	137,678	150,328	165,506	180,611	198,439	218,665	239,770	260,083	281,471	304,108	326,443	349,421	372,437	395,120	416,281	437,325	458,114	478,530	499,811	520,320	538,441	559,929	582,296	606,531
	Total Contribs		127,464	114,633	109,258	111,652	114,124	117,771	121,798	125,709	129,430	133,144	136,977	143, 189	149,363	155,789	162,213	168,738	178,536	188,430	200,546	212,587	224,674	240,876	257,201	275,449	293,717	311,927
ing	Employee Contribs	1 1 1 1 1 1	39,396	41,300	43,295	45,306	24,447	49,601	52,200	54,793	57,379	29,960	62,534	66, 133	69,723	73,305	76,879	80,537	85,706	90,876	96,046	101,215	106,385	113,518	120,650	127,783	134,916	142,049
Amounts Dur	Employer Contribs	1 1 1 1 1 1 1	88,069	73,333	65,962	66,346	229,99	68,170	69,598	70,917	72,051	73, 184	74,444	77,056	0,967	82,484	85,334	88,201	92,830	97,554	104,501	111,371	118,289	127,358	136,551	147,666	158,801	169,878
FLOW	Employer Ctb Rate	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	19.65%	15.59%	13.36%	12.83%	12.30%	12.01%	11.64%	11.29%	10.94%	10.62%	10.35%	10.11%	6.90%	9.74%	6.60%	6.47%	9.37%	9.29%	9.41%	9.52%	9.62%	9.70%	6.79%	10.00%	10.18%	10.34%
	Total Salaries		448, 186	470,387	493,672	517,189	542,252	567,521	597,938	628,356	658,773	689, 190	719,608	761,899	804,189	846,480	888,771	931,062	930,826	1,050,590	1,110,354	1,170,118	1,229,882	1,312,341	1,394,801	1,477,260	1,559,720	1,642,179
	Surplus* (Deficit)	1 1 1 1 1 1 1 1	(229,882)	(210,032)	(203,346)	(205, 128)	(208,531)	(212,908)	(216,563)	(219,938)	(224,312)	(229,972)	(535,664)	(242, 186)	(248,548)	(254,861)	(262, 197)	(271,588)	(283,874)	(295,590)	(307,899)	(319,823)	(332,677)	(349,119)	(366, 133)	(382,921)	(402,733)	(428,461)
ts on July	Funding Ratio	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	89.7%	91.3%	92.1%	95.6%	93.0%	93.3%	89.6%	93.8%	94.1%	94.2%	%7.76	94.5%	%9.46	24.7%	94.8%	%5.7%	94.8%	94.8%	94.8%	%6.46	64.9%	%6.46	94.8%	94.8%	94.8%	%.7%
Valuation Amounts on	Accrued Funding Liability Ratio	1 1 1 1 1 1 1	2,231,746	2,401,825	2,580,658	2,766,699	2,960,226	3,158,561	3,361,658	3,568,002	3,776,562	3,986,619	4,197,757	4,409,872	4,623,164	4,838,145	5,055,630	5,276,747	5,502,929	5,735,916	5,977,758	6,230,812	6,497,742	6,781,523	7,085,433	7,413,062	7,768,306	8,155,370
Vatue	Total		2,001,864	2, 191, 794	2,377,312	2,561,570	2,751,695	2,945,653	3,145,095	3,348,064	3,552,250	3,756,647	3,962,093	4, 167, 686	4,374,616	4,583,283	4,793,433	5,005,159	5,219,054	5,440,325					6,719,300	7,030,142	7,365,573	7,726,909
1	As of June 30	1 1 1 1	1992	1993	1994	1995			1998																	2015	2016	2017

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

William M. Mercer, Incorporated

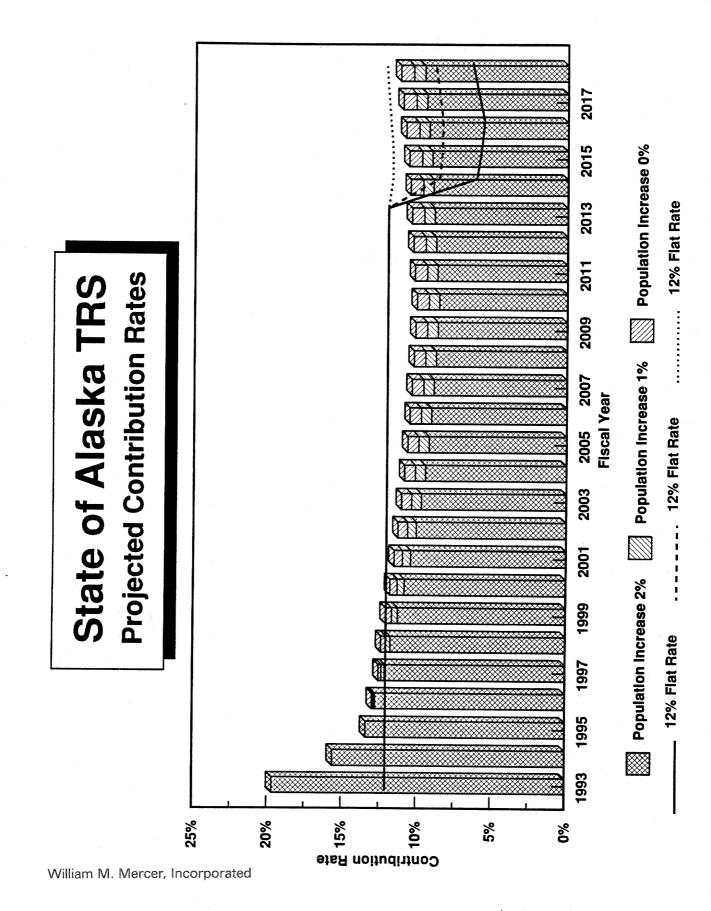
Table 5
State of Alaska TRS
Financial Projections ('000 omitted)

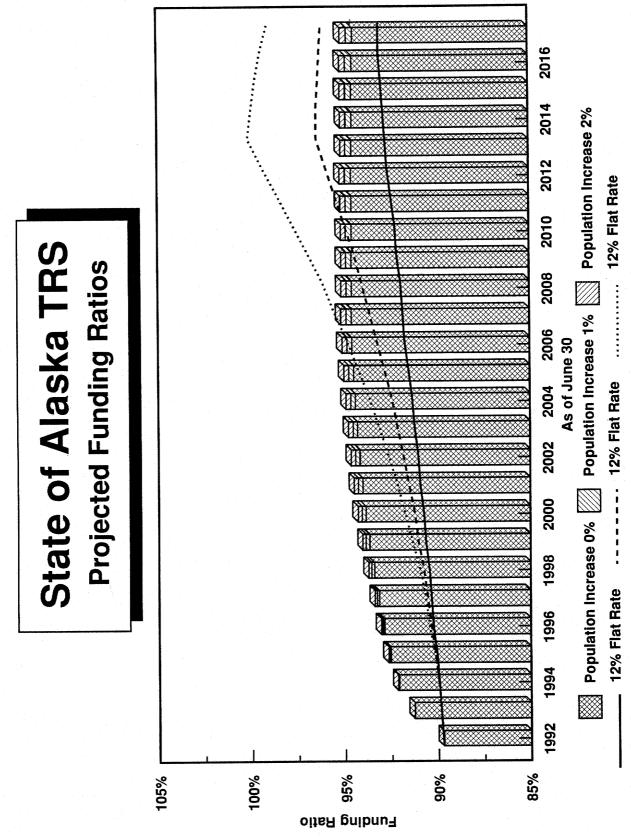
2.00%

Annual Population Increase

Ending	Asset	Value	2,191,794	2,378,270	2,564,413	2,756,977	2,953,973	3,157,298	3,365,237	3,575,633	3,787,465	4,001,724	4,217,598	4,437,459	4,661,894	4,890,938	5,124,852	5,364,434	5,616,649	5,882,755	6,166,868	6,470,665	6,794,825	7,148,448	7,536,579	7,960,656	8,422,310	8,922,168
	nvestment	Earnings	180,588														431,302											746,891
	_	Contribs	9,342	(10,320)	(26,700)	(36,587)	(48,930)	(29,840)	(72,936)	(88,493)	(105,238)	(121, 161)	(138,067)	(152,845)	(167,403)	(182,322)	(197,389)	(212, 109)	(220,655)	(229,084)	(234,770)	(240,402)	(247,081)	(546,806)	(244,238)	(243,268)	(243,832)	(247,033)
Months	Benefit	Payments	118,123	125,871	137,742	150,484	165,779	181,036	199,054	219,508	240,890	261,456	283,138	306,110	328,833	352,264	375,826	399,162	421,096	443,045	464,894	486,578	509,361	531,640	551,828	576,024	601,658	629,793
Following 12 M	Total	Contribs	127,464	115,551	111,042	113,897	116,849	121,197	126,118	131,015	135,652	140,295	145,071	153,265	161,429	169,943	178,437	187,053	200,441	213,961	230, 123	246,175	262,280	284,834	307,590	332,756	357,825	382,760
		Contribs	39,396	41,630	44,002	76,440	49,063	51,760	55, 127	58,487	61,839	65, 182	68,519	73,398	78,266	83,122	196,78	92,908	100,157	107,406	114,655	121,904	129, 153	139,588	150,022	160,456	170,891	181,325
Amounts During	Employer	Contribs	88,069	73,920	67,040	67,457	982,79	69,437	70,991	72,528	73,813	75,112	76,552	79,867	83,164	86,821	90,470	94,145	100,284	106,554	115,468	124,271	133, 127	145,247	157,568	172,300	186,935	201,435
FLOW A		Rate	1														8.90%											
	Total	Salaries	448,186	474,151	501,735	530,133	560,719	592,217	631,469	670,721	709,972	749,224	788,476	845,597	902,718	959,839	1,016,960	1,074,081	1,157,885	1,241,689	1,325,493	1,409,297	1,493,101	1,613,730	1,734,359	1,854,987	1,975,616	2,096,245
	Surplus*	(Deficit)	882)	093)	883)	627)	965)	339)	889)	115)	307)	(22)	6066	371)	328)	210)	(252,280)	941)	413)	117)	538)	(999	290)	561)	567)	813)	775)	064)
ts on July	Funding	Ratio	89.7%	91.3%	92.1%	95.6%	93.0%	93.4%	93.7%	24.0%	94.3%	94.5%	%9.46	94.8%	%.7%	95.0%	95.1%	95.1%	95.1%	95.1%	95.1%	95.1%	95.2%	95.1%	95.1%	95.1%	95.1%	95.1%
ation Amoun		Liability	2,231,746	2,401,887	2,581,153	2,768,040	2,962,942	3, 163, 312	3,369,187	3,579,352	3,792,940	4,009,442	4,228,714	4,450,970	4,676,787	4,907,103	5, 143, 218	5,386,792	5,639,847	5,904,766	6, 184, 293	6,481,534	6,799,955	7,143,386	7,516,015	7,922,392	8,367,431	8,856,404
Valuation Amounts on Ju	Total	Assets	2,001,864	2,191,794	2,378,270	2,564,413	2,756,977	2,953,973	3,157,298	3,365,237	3,575,633	3,787,465	4,001,724	4,217,598	4,437,459	4,661,894	4,890,938	5,124,852	5,364,434	5,616,649				6,794,825		226	7,960,656	310
!	As of	June 30	1992	1993			_		1998	1999	2000	2001					2006	2002								2015		2017

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





State of Alaska TRS
Financial Projections ('000 omitted)

Annual Population Increase

2, 155, 965 2, 319, 794 2, 490, 186 2, 666, 817 3, 222, 676 3, 222, 676 3, 793, 516 3, 793, 516 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 4, 175, 466 6, 225, 465 6, 225, 465 6, 738, 519 6, 738, 519 6, 738, 519 7, 019, 286 Asset Value Investment 179, 045 192, 736 207, 128 222, 072 253, 474 285, 728 302, 087 318, 492 334, 933 334, 933 334, 933 347, 445 411, 443 469, 164 487, 476 526, 114 526, 114 526, 114 526, 114 526, 114 526, 114 526, 114 526, 114 526, 114 526, 114 Earnings (24, 945) (28, 907) (36, 736) (45, 441) (56, 441) (67, 416) (87, 416) (87, 840) (112, 075) (112, 075) (144, 076) (144, 07 Contribs Amounts During Following 12 Months----Employer Employee Total Benefit Contribs Contribs Payments 118, 123 125, 871 137, 614 150, 175 197, 844 278, 794 278, 794 278, 794 278, 794 330, 260 330, 260 332, 265 441, 998 432, 265 441, 998 432, 265 441, 481 471 93,178 96,964 100,878 1104,734 1112,779 1117,779 1117,779 1117,779 1117,972 1148,098 1144,979 1160,332 1166,521 1166,521 1166,521 1166,521 1166,521 1166,521 1166,521 1166,521 1166,521 1167,895 1183,437 1167,895 39,396 40,970 44,194 45,878 47,526 47,526 47,526 55,128 55,128 57,054 66,64,643 73,296 67,141 67,161 67,161 67,163 73,296 80,382 80,382 81,688 53, 782 55, 995 58, 283 60, 540 62, 919 65, 919 65, 919 65, 919 65, 995 73, 373 76, 079 78, 382 88, 382 88, 382 88, 373 88, 575 88, 57 12.00% 12 Employer Ctb Rate ---FLOW 448, 186 466, 623 485, 690 504, 498 524, 322 524, 322 524, 322 566, 330 611, 440 633, 994 656, 549 686, 519 716, 488 776, 427 806, 396 847, 356 847, 3 Salaries (229, 882) (245, 799) (260, 370) (275, 183) (290, 734) (321, 176) (335, 054) (335, 054) (335, 054) (348, 849) (348, 849) (346, 135) (446, 135) (447, 516) (447, 516) (447, 516) (447, 516) (447, 516) (447, 516) (448, 543) (483, 249) (483, 249) (526, 895) Surplus* (Deficit) 89.7% 89.8% 89.9% 89.0% 90.0% 92.1% 92.2% 92.4% 92.6% 92.8% 92.9% 93.0% Accrued Funding Liability Ratio ----Valuation Amounts 2,231,746 2,580,164 2,580,164 2,765,369 2,765,369 2,957,551 3,354,882 3,557,730 4,168,364 4,572,372 4,572,372 5,377,976 6,007,898 6,230,792 6,463,586 7,246,955 7,246,955 Assets 2,001,864 2,155,965 2,319,794 2,490,186 2,666,817 3,033,707 3,222,678 3,412,565 3,412,565 3,793,516 4,317,746 4,943,73 5,140,443 5,788,318 5,788,318 5,788,318 5,788,318 5,788,318 5,788,318 5,788,318 5,788,318 5,788,318 Total June 30

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

	omitted)
State of Alaska TRS	Financial Projections ('000

Table 5

Annual Population Increase

Ending Asset Value	2,155,965	2,492,743	2,672,196 2,857,321	3,048,742	3,245,291	3,444,916	3,646,969	3,852,492	4,060,665	4,272,983	4,490,124	4,711,843	4,938,503	5,170,984	5,415,172	5,672,242	5,943,620	6,230,985	6,534,870	6,827,417	7,140,692	7,474,816	7,834,184	8,219,404
nvestment Earnings	179,045																							
Net I Contribs	(24,945)	(35, 142)	(42,960)	(62,907)	(74,487)	(88,470)	(103,338)	(117,421)	(132,584)	(146,548)	(160,217)	(174,538)	(188,905)	(202,856)	(211,676)	(220,378)	(228,826)	(236,901)	(245,840)	(282,863)	(288,222)	(295,253)	(299,871)	(306,082)
Months Benefit Payments	118,123																							
Following 12 M oyee Total ribs Contribs	93,178	102,536	107,368	117,704	123,953	130, 195	136,432	142,662	148,887	157,561	166,226	174,883	183,531	192,264	204,606	216,947	229,288	241,629	253,971	237,458	250,219	264,677	282,425	300,449
	39,396	43,295	45,306	49,601	52,200	54,793	57,379	29,960	62,534	66, 133	69,723	73,305	76,879	80,537	85,706	90,876	96,046	101,215	106,385	113,518	120,650	127,783	134,916	142,049
Amounts During Employer Empl Contribs Cont	53,782	59,241	62,063 65,070	68, 102	71,753	75,403	79,053	82,703	86,353	91,428	96,503	101,578	106,653	111,727	118,899	126,071	133,242	140,414	147,586	123,940	129,569	136,894	147,510	158,401
Flow A Employer Ctb Rate	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	877.6	9.29%	9.27%	6.46%	6.65%
Total Salaries	448, 186	493,672	517, 189	567,521	597,938	628,356	658,773	689, 190	719,608	761,899	804,189	846,480	888,771	931,062	990,826	1,050,590	1,110,354	1,170,118	1,229,882	1,312,341	1,394,801	1,477,260	1,559,720	1,642,179
1 Surplus* (Deficit)	(229,882)	(260,047)	(273,956) (288,030)	(301,240)	(312,916)	(322,711)	(331,647)	(339,650)	(345,266)	(349,207)	(350, 182)	(348,020)	(343,787)	(338,244)	(331,944)	(320,744)	(305,516)	(287, 191)	(266, 758)	(546,653)	(258,016)	(272,370)	(293,491)	(321, 186)
nts on July Funding Ratio	89.7%	89.9%	90.1% 90.3%	90.5%	90.7%	91.0%	91.2%	91.5%	91.8%	92.1%	92.4%	92.8%	93.2%	93.6%	%0.76	%7.76	%6.46	95.4%	95.9%	%7.96	%7.96	96.3%	96.2%	96.1%
ation Amount Accrued F Liability	2,231,746	2,580,658	2,766,699	3,158,561	3,361,658	3,568,002	3,776,562	3,986,619	4,197,757	4,409,872	4,623,164	4,838,145	5,055,630	5,276,747	5,502,929	5,735,916	5,977,758	6,230,812	6,497,742	6,781,523	7,085,433	7,413,062		8,155,370
Valuation Amounts on Total Accrued Fundi Assets Liability Rati	2,001,864	2,320,611	2,492,743	2,857,321	3,048,742	3,245,291	3,444,916	3,646,969	492	999	4,272,983	4,490,124	4,711,843 5,	4,938,503	5,170,984	172	242	250	385	870	6,827,417	7,140,692	7,474,816	7,834,184
As of June 30	1992	1994	1995 1996	1997	1998	1999	2000	2001	2002	2003						2009	2010	2011	2012	2013	2014	2015	2016	2017

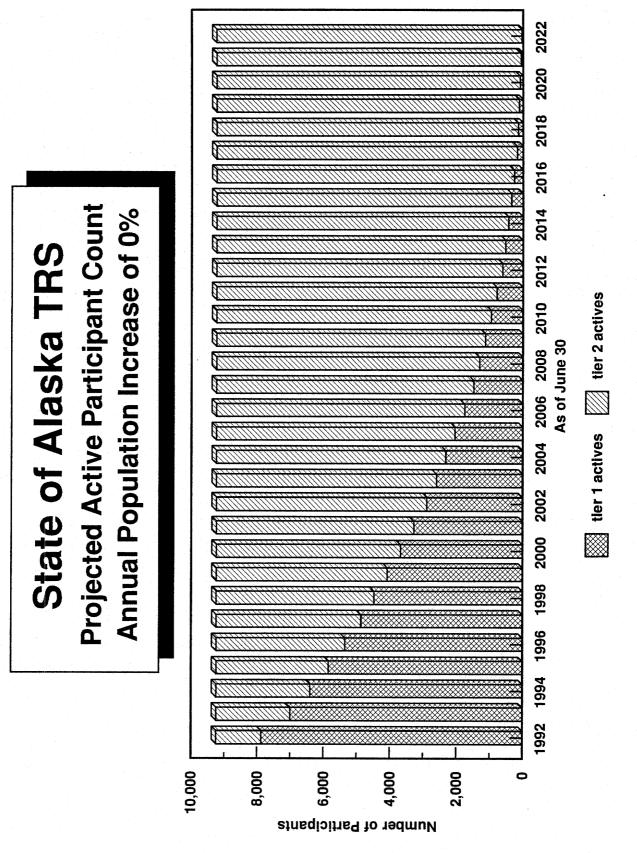
* Surpluses reduce employer contributions over 5 years * Deficits increase employer contributions over 25 years

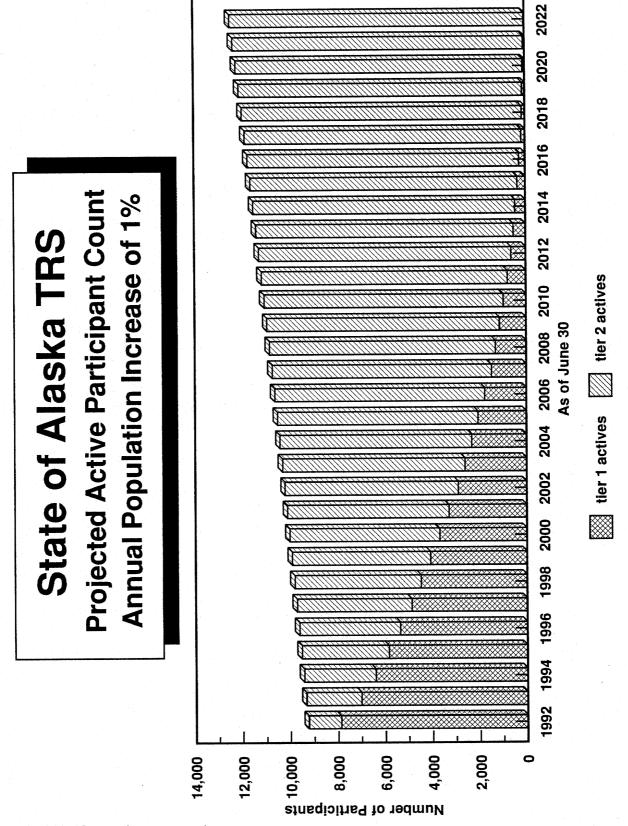
rable o State of Alaska TRS Financial Projections ('000 omitted)

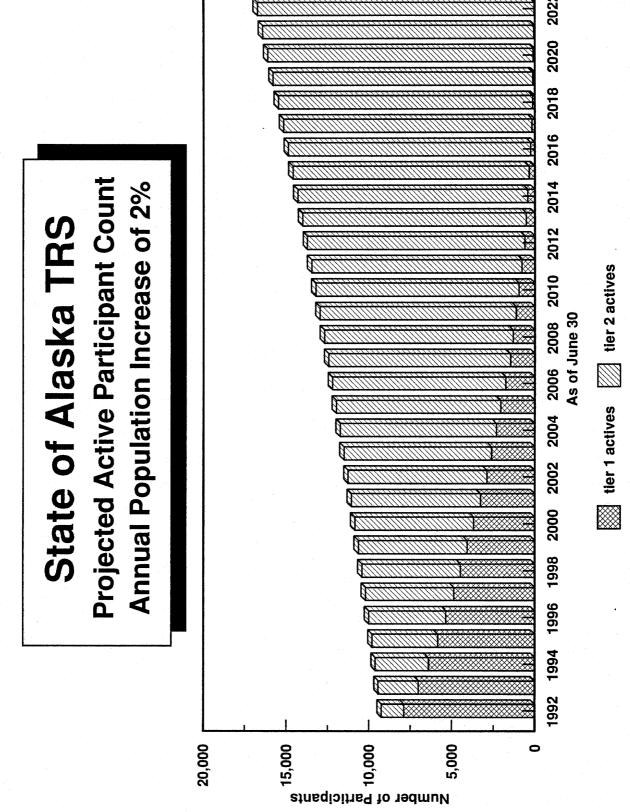
Annual Population Increase

Ending Asset Value	2,155,965	2,321,429	2,495,517	2,6/1,648	3,064,181	3,268,740	3,478,767	3,693,778	3,915,064	4,142,017	4,377,653	4,623,000	4,878,180	5,143,930	5,421,538	5,719,294	966'850'9	6,382,723	6,752,811	7,150,481	7,511,989	7,900,853	8,316,598	8,769,870	9,260,832
investment Earnings				222, 759																					
Net I Contribs	(24,945)	(27,342)	(55,552)	(40,428)	(58,211)	(68, 151)	(80,535)	(93,855)	(106,367)	(120,003)	(131,241)	(142,241)	(153,962)	(165,824)	(177,364)	(181,992)	(186,636)	(191,179)	(195,558)	(201,036)	(269,890)	(274,847)	(282,613)	(282,509)	(285,480)
Months Benefit Payments	118,123	125,871	157,742	150,484	181,036	199,054	219,508	240,890	261,456	283, 138	306,110	328,833	352,264	375,826	399,162	421,096	443,045	768, 494	486,578	509,361	531,640	551,828	576,024	601,658	629,793
wing 12 M Total Contribs	93,178	98,528	104,210	110,056	122,826	130,904	138,973	147,035	155,089	163, 136	174,869	186,592	198,303	210,002	221,798	239, 103	256,409	273,714	291,020	308,325	261,750	276,981	293,411	319,149	344,313
	39,396	41,630	44,002	70,0440	51,760	55,127	58,487	61,839	65,182	68,519	73,398	78,266	83,122	87,967	92,908	100,157	107,406	114,655	121,904	129, 153	139,588	150,022	160,456	170,891	181,325
Amounts During Employer Empl Contribs Cont	53,782	56,898	60,208	65,616	71,066	75,776	80,486	85,197	89,907	94,617	101,472	108,326	115, 181	122,035	128,890	138,946	149,003	159,059	169,116	179,172	122,162	126,959	132,955	148,258	162,988
Employer Ctb Rate	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12,00%	12.00%	12.00%	12.00%	12.00%	12.00%	7.57%	7.32%	7.17%	7.50%	7.78%
Total Salaries	448,186	474,151	501, 735	550, 155	592.217	631,469	670,721	709,972	749,224	788,476	845,597	902,718	959,839	1,016,960	1,074,081	1,157,885	1,241,689	1,325,493	1,409,297	1,493,101	1,613,730	1,734,359	1,854,987	1,975,616	2,096,245
1 Surplus* (Deficit)	(229,882)	(245,923)	(22), (25)	(272,724)	(296,329)	(305,006)	(310,613)	(314,172)	(315,664)	(313,649)	(308,952)	(299, 134)	(284,104)	(265,039)	(242,862)	(218,309)	(185,472)	(145,297)	(98,810)	(47,145)	7,095	(4,025)	(21,540)	(50,833)	(86,534)
nts on July Funding Ratio	89.7%	89.8%	86.68	90.1%	90.6%	86.06	91.3%	91.7%	92.1%	95.6%	93.1%	93.6%	94.2%	94.8%	95.5%	96.1%	%6.96	%2.76	98.5%	99.3%	100.1%	%6.66	%2.66	%5.66	%0.66
ation Amoun Accrued Liability		2,401,887	2,581,155	2,768,040	3, 163, 312	3,369,187	3,579,352	3,792,940	4,009,442	4,228,714	4,450,970	4,676,787	4,907,103	5,143,218	5,386,792	5,639,847	5,904,766	6, 184, 293	6,481,534	6,799,955	7,143,386	7,516,015	7,922,392	8,367,431	8,856,404
Valuation Amounts on Ju Total Accrued Funding Assets Liability Ratio	2,001,864	2, 155, 965	2,521,429	2,495,317	2.866.982	3,064,181	3,268,740	3,478,767	3,693,778	3,915,064	4,142,017	4,377,653	4,623,000	4,878,180	5,143,930	5,421,538	5,719,294	6,038,996	6,382,723	6,752,811	7,150,481	7,511,989	7,900,853	8,316,598	8,769,870
As of June 30	1992	1993	1994	1995	1997	1998	1999				2003											2014	2015	2016	

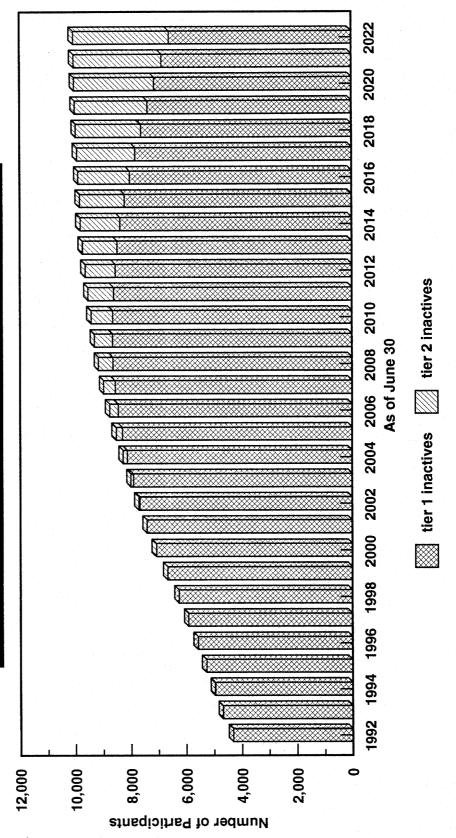
* Surpluses reduce employer contributions over 5 years * Deficits increase employer contributions over 25 years



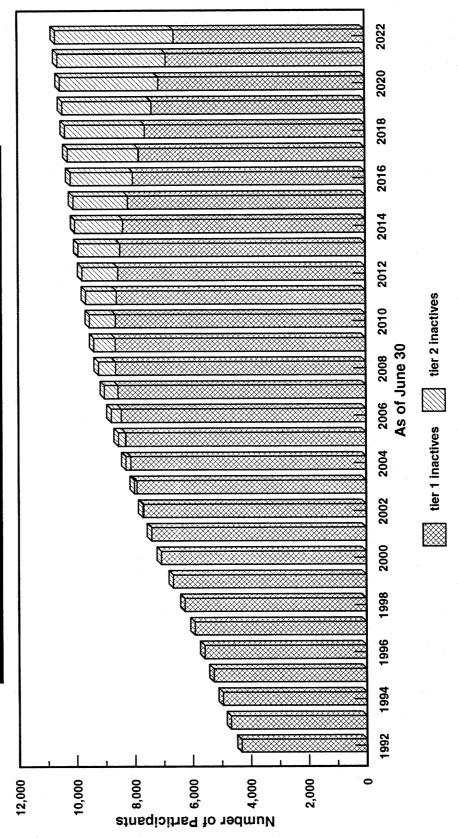


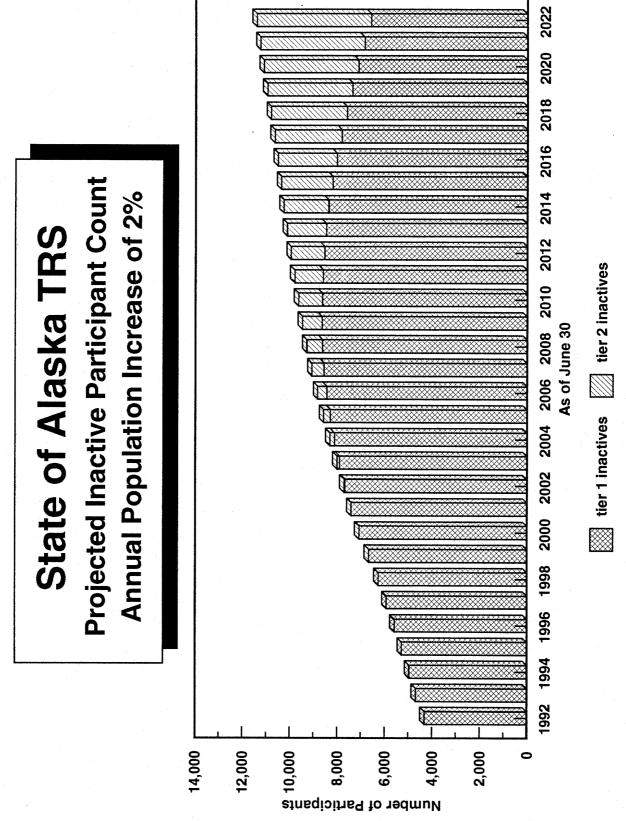


State of Alaska TRS Projected Inactive Participant Count Annual Population Increase of 0%









Section 2

Basis of the 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 Teachers' Retirement System

(1) Effective Date

June 30, 1955, with amendments through June 30, 1992. Chapter 97, 1990 Session Laws of Alaska, created a two-tier retirement system. New members who are first hired under the TRS after June 30, 1990 are entitled to different benefits than those members who were hired before July 1, 1990.

(2) Administration of Plan

The Commissioner of Administration is responsible for administration of the system; the Alaska Teachers' 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 State 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) Membership

Membership in the Alaska TRS is compulsory for the following employees:

- certificated full-time and part-time elementary and secondary teachers, certificated school nurses, and certificated employees in positions requiring teaching certificates;
- the Commissioner of the Alaska Department of Education and certificated supervisors employed by the Department of Education in permanent positions requiring teaching certificates;
- University of Alaska full-time and part-time teachers, and full-time administrative employees in positions requiring academic standing if approved by the TRS administrator (employees who elect to participate in the University of Alaska's optional retirement plan are excluded);
- certain full-time or part-time teachers of Alaska Native language or culture who have elected to be covered under the TRS;

- members on approved sabbatical leave under AS 14.20.310; and
- certain State legislators who have elected to be covered under the TRS.

TRS members who receive TRS disability benefits are also covered under the TRS and earn membership service while they are on disability.

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

(4) Credited Service

TRS members receive a year of membership service if they work a minimum of 172 days during the school year (July 1 through June 30 of the following year). Fractional service credit is determined based on the number of days worked. Members receive one-half year of membership service for each year as a part-time teacher. Credit is granted for all Alaskan public school service.

Members may claim TRS credit for the following service:

- Outside teaching service. Members may claim up to ten years of outside service for their employment in out-of-state schools or Alaska private schools. Outside service includes employment as:
 - (a) certificated full-time elementary and secondary teachers and certificated full-time employees in positions which require teaching certificates as a condition of employment with out-of-state public schools and approved or accredited nonpublic schools either inside or outside of the United States supported by U.S. funds;
 - (b) full-time employees in out-of-state institutions of higher learning requiring academic standing and accreditation; or
 - (c) full-time teachers in approved or accredited nonpublic institutions of higher learning in Alaska.

Contributions are required for service which is claimed. Members who are first hired after June 30, 1978 are charged the full actuarial cost for providing benefits for the service. Credit for fractional years of outside service is not allowed.

- Military service. Members may claim up to five years of military service; however, the combined total of outside and military service may not exceed ten years, unless entry into the military is immediately preceded by TRS service and following discharge is continued by TRS service within one year. Contributions are required for service which is claimed. Credit for fractional years of military service is allowed.
- <u>Bureau of Indian Affairs (BIA) service in Alaska</u>. Members may claim their Alaska BIA service as professional educators and certificated full-time teachers in positions requiring teaching certificates. Contributions are required for service which is claimed. Credit for fractional years of BIA service is allowed.
- Retroactive service. Members may claim their earlier Alaskan service that was not creditable at the time it occurred, but later became creditable because of legislative change. Retroactive contributions are required for earlier service that occurred after June 30, 1955. Contributions are not required for service before July 1, 1955.
- <u>Unused sick leave</u>. Members may claim their unused sick leave after they retire. Contributions are not required.
- <u>Leave of absence without pay</u>. Members may receive credit for their employer-approved leave of absence without pay. Contributions are required.

(5) Computation of Average Base Salary

The average base salary is determined by adding the member's three highest annual base salaries together and dividing the total by three. Members must work and receive compensation for at least two-thirds of a school year (115 days) to include it as one of the three highest.

(6) Employer Contributions

The employer contributes the amount required, in addition to employee contributions, to fund the benefits of the system.

(7) Employee Contributions

Mandatory Employee Contributions: 8.65% of base salary. Employee contributions are deducted from the gross salary before federal income tax is withheld.

Note: Prior to January 1, 1991, the rate was 7%. Employee contributions were deducted from the gross salary after federal income tax was withheld.

Interest Credited: 4.5% compounded annually on June 30.

<u>Refund of Contributions</u>: If a member terminates TRS employment, the balance of the member's account (mandatory 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 withdrawn, the member must return to TRS employment in order to reinstate the refunded service. Upon reemployment, an indebtedness will 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 TRS 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 benefits are not payable upon the member's death, the member's contribution account balance, including mandatory and supplemental contributions, indebtedness payments, and interest earned, will be paid to the designated beneficiary. When the member has more than one year of TRS service, the beneficiary will also receive \$1,000 plus \$100 for each year of membership service (not to exceed \$3,000). An additional \$500 may be payable if the member is survived by dependent children.

(8) 1% Supplemental Contributions

If a member first joined the system before July 1, 1982 and elected to participate in the supplemental contributions provision, a spouse's pension and/or survivor's allowance may be payable to his or her spouse and dependent children. To participate, the member must contribute an additional 1% of his or her base salary. An election to participate must be made no later than 90 days after marriage, the birth or adoption of a child, or reemployment in the system if there was at least a twelve (12) month break in service.

(9) Normal Retirement Benefit

Eligibility:

- (a) Upon attaining age 60 (age 55 for members who participated before July 1, 1990) and meeting one of the following service requirements:
 - (i) Eight years of fully-paid membership service; or

- (ii) 15 years of fully-paid creditable service, if the last five years are membership service and the member was first hired under the TRS before July 1, 1975; or
- (iii) Five years of fully-paid membership service and three years of fully-paid Alaska B.I.A. service; or
- (iv) 12 years of combined part-time and full-time fully-paid membership service; or
- (v) two years of fully-paid membership service if the member is vested in the Public Employees' Retirement System;

or;

- (b) At any age after meeting one of the following service requirements:
 - (i) 25 years of fully-paid creditable service, the last five of which are membership service; or
 - (ii) 20 years of fully-paid membership service; or
 - (iii) 20 years of fully-paid combined membership service and Alaska B.I.A. service, the last five of which are membership service.
 - (iv) 20 years of combined part-time and full-time fully-paid membership service.

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

Type:

Life only or optional joint and survivor benefits (actuarially reduced).

Amount:

Two percent of average base salary for the first twenty years of service, and 2.5% for all remaining years. Service before July 1, 1990 is calculated at 2%.

Minimum Benefit: \$25 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, 1990) and meeting one of the following service requirements:

(i) Eight years of fully-paid membership service; or

- (ii) 15 years of fully-paid creditable service, if the last five years are membership service and the member was first hired under the TRS before July 1, 1975; or
- (iii) Five years of fully-paid membership service and three years of fully-paid Alaska B.I.A. service; or
- (iv) 12 years of combined part-time and full-time membership service; or
- (v) two years of fully-paid membership service if the member is vested in the Public Employees' Retirement System.

Type:

Life only or optional joint and survivor benefits (actuarially reduced).

Amount:

Actuarial equivalent of the normal retirement benefit (see 10 above) based on service and salary to early retirement date.

(11) Deferred Benefit

Eligibility:

Refer to (9) Normal Retirement Eligibility and (10) Early Retirement Eligibility (page 37 - 38). Withdrawal of employee contributions voids rights to benefits.

Type:

Life only or optional joint and survivor benefits (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 TRS 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 Retirement Benefits

A disability retirement benefit may be paid if a member becomes permanently disabled before the normal retirement date and has at least five years of fully-paid membership service.

The benefit is equal to 50% of the disabled member's base salary immediately prior to becoming disabled. This benefit will be increased by 10% of the member's base salary for each minor child up to a maximum of 40%.

When the disabled member becomes eligible for normal retirement, the 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 in membership service during the period of disability.

(15) Death Benefit Before Retirement

Nonoccupational Death

With less than one year of membership service, the member's contribution account balance, including mandatory and supplemental contributions, indebtedness payments and interest earned, will be paid to the designated beneficiary. With more than one but less than eight years of membership service, the beneficiary will also receive \$1,000 plus \$100 for each year of membership service (not to exceed \$3,000). An additional \$500 may be payable if the member is survived by dependent children.

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 base salary and credited service at the time of death.

Note: If a survivor's allowance or spouse's pension is payable under the supplemental contributions provision, benefits will instead be paid under that provision.

Occupational Death

Upon an occupational death of an active member, a monthly survivor's pension equal to 40% of the base salary at the time of death or disability, if earlier, may be paid to the spouse, unless a survivor's allowance or spouse's pension is payable under the supplemental contributions provision. 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 based on the member's average base 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, unless benefits are payable under a joint and survivor option. If the member elected a survivor option at retirement, the spouse will receive a continuing monthly benefit for the rest of his or her life.

(17) Survivor's Allowance - Supplemental Contributions

If a member has made supplemental contributions for at least one year and dies while in membership service, or while receiving TRS disability benefits, or if the member has made supplemental contributions for at least five years and dies while on retirement or in deferred vested status, and is survived by dependent children, the surviving spouse and/or dependent children are entitled to a survivor's allowance.

The allowance for the spouse is equal to 35% of the member's base salary at the time of death or disability, plus 10% for each dependent child up to a maximum of 40%. The survivor's allowance commences the month following the member's death. When there is no longer an eligible dependent child, the survivor's allowance ceases and a spouse's pension becomes payable.

(18) Spouse's Pension - Supplemental Contributions

If a member has made supplemental contributions for at least one year and dies while in membership service, or while receiving TRS disability benefits, or if the member has made supplemental contributions for at least five years and dies while on retirement or in deferred vested status, the surviving spouse is entitled to receive a spouse's pension.

The pension is equal to 50% of the retirement benefit that the deceased member was receiving or would have received if the member had been retired at the time of death. The spouse's pension commences the month following the member's death or cessation of the survivor's allowance. The pension ceases when the spouse dies.

(19) 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 TRS 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 eight years who are under age 60.

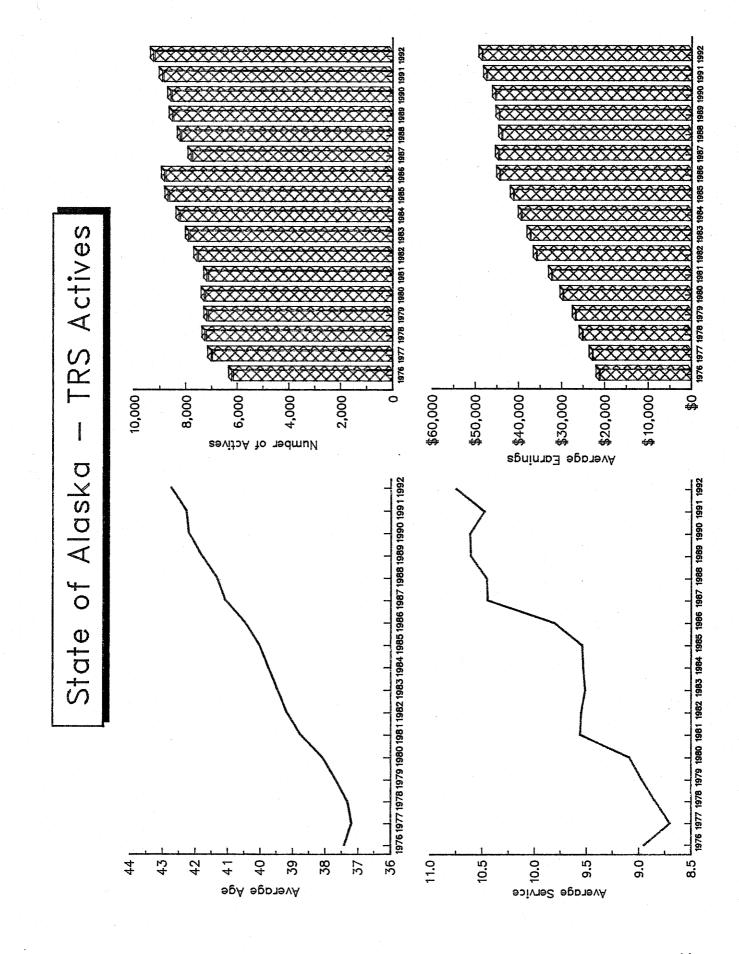
(Ad hoc PRPA's of up to 4% may be issued to retirees who were first hired before July 1, 1990 if the CPI has increased and the financial condition of the fund will permit an adjustment).

(20) 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. Members who were first hired before July 1, 1990 or who are receiving disability benefits are eligible for COLA, regardless of age.

2.2(a) Participant Census Information as of June 30

			<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
Act	ive Members						
(1)	Number		8,218	8,527	8,586	8,903	9,238
(2)	Number Vested		4,053	4,787	4,890	5,069	5,422
(3)	Average Age	* .	41.34	41.82	42.21	42.28	42.74
(4)	Average Credited Service		10.46	10.61	10.62	10.48	10.75
(5)	Average Annual Salary	\$	43,966	\$ 44,596	\$ 45,388	\$ 47,473	\$ 48,515
Ret	irees and Beneficiaries						
(1)	Number		2,972	3,098	3,184	3,544	3,602
(2)	Average Age		61.41	61.85	62.45	61.64	61.97
(3)	Average Monthly Benefit:						
	Base	\$	1,460	\$ 1,476	\$ 1,491	\$ 1,587	\$ 1,601
	C.O.L.A.	\$	102	\$ 102	\$ 100	\$ 105	\$ 102
	P.R.P.A.	\$	208	\$ 234	\$ 262	\$ 238	\$ 297
	Total	\$	1,770	\$ 1,812	\$ 1,853	\$ 1,930	\$ 2,000
Ve	sted Terminations						
(1)	Number		408	508	816	645	710
(2)	Average Age		44.26	45.11	46.75	45.57	46.22
(3)	Average Monthly Benefit	\$	847	\$ 957	\$ 1,244	\$ 897	\$ 1,087
No	n-Vested Terminations With Acco	unt Balan	ces				
(1)	Number		938	943	985	1,003	1,057
(2)	Average Account Balance	\$	9,773	\$ 9,765	\$ 10,244	\$ 10,270	\$ 10,411



2.2(b) Distribution of Active Participants

	Annual I	Earnings By Age -		Annual Earnings By Credited Service				
Number Total		Average		Years	Number	Total	Average	
Age	of	Annual	Annual		of	of	Annual	Annual
Groups	People	Earnings	Earnings		<u>Service</u>	People	Earnings	Earnings
						:		
0-19	0	\$ 0	\$ 0		0	194	\$ 6,523,252	\$ 33,625
20-24	67	2,138,319	31,915		1	663	23,596,510	35,591
25-29	544	18,949,690	34,834		2	742	29,194,188	39,345
30-34	969	38,315,968	39,542		3	501	20,089,954	40,100
35-39	1,676	74,702,016	44,572		4	450	18,997,688	42,217
40-44	2,367	116,753,068	49,325		0- 4	2,550	98,401,592	38,589
45-49	2,013	107,637,680	53,471		5-9	2,097	97,312,456	46,406
50-54	1,043	57,866,084	55,480		10-14	1,931	100,000,808	51,787
55-59	400	22,686,462	56,716		15-19	1,292	71,618,976	55,433
60-64	126	7,291,065	57,866		20-24	954	55,532,204	58,210
65-69	25	1,409,146	56,366		25-29	338	20,707,414	61,265
70-74	7	395,871	56,553		30-34	64	3,918,834	61,232
75-79	1	40,510	40,510		35-39	11	650,520	59,138
80+	0	0	0		40+	1	43,075	43,075
Total	9,238	\$448,185,879	\$ 48,515		Total	9,238	\$448,185,879	\$ 48,515

Years of Credited Service By Age

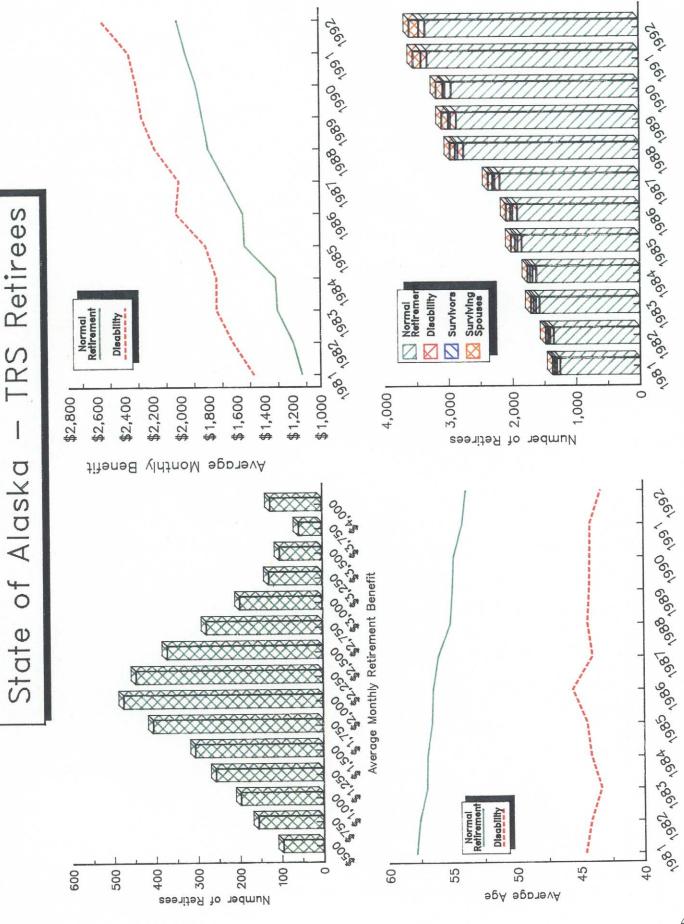
				Y	ears of Ser	vice				ton our tak are tak as her tak tak
Age	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40+</u>	<u>Total</u>
0-19	0	0	0	0	0	0	0	0	0	0
20-24	67	0	0 0	0	0	0	0	0	0	67
25-29	497	47	0	0	0	0	0	0	0	544
30-34	507	378	84	0	0	0	0	0	0	969
35-39	523	551	484	118	0	0	0	0	0	1,676
40-44	466	521	640	558	182	0	0	0	0	2,367
45-49	286	322	437	363	498	107	0	0	0	2,013
50-54	120	175	195	173	187	170	22	1	0	1,043
55-59	59	68	66	57	69	44	34	3	0	400
60-64	21	25	20	17	14	15	6	7	1	126
65-69	1	8	4	5	3	2	2	0	0	25
70-74	2	2	1	1	. 1	0	0	0	0	7
75-79	1	0	0	0	0	0	0	0	0	1
80+	0	0	0	0	_0	_0	_0	<u>0</u>	<u> </u>	0
Total	2,550	2,097	1,931	1,292	954	338	64	11	1	9,238

2.2(c) Statistics on New Retirees During the Year Ending June 30

		<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
Servic	ee					
(1)	Number	621	187	199	507	110
(2)	Average Age At Retirement	52.07	51.82	52.44	51.56	53.04
(3)	Average Monthly Benefit	\$ 2,224	\$ 1,943	\$ 2,037	\$ 2,133	\$ 1,926
Disab	ility					
(1)	Number	15	12	8	8	8
(2)	Average Age At Retirement	46.28	46.24	46.48	45.46	43.81
(3)	Average Monthly Benefit	\$ 2,743	\$ 2,618	\$ 2,485	\$ 2,448	\$ 3,230
Surviv	vor					
(1)	Number	3	2	1	4	2
(2)	Average Age At Retirement	47.39	43.81	63.96	45.40	49.46
(3)	Average Monthly Benefit	\$ 1,143	\$ 2,318	\$ 1,203	\$ 435	\$ 620
Total						
(1)	Number	639	201	208	519	120
(2)	Average Age At Retirement	51.91	51.41	52.27	51.42	52.37
(3)	Average Monthly Benefit	\$ 2,231	\$ 1,987	\$ 2,050	\$ 2,124	\$ 1,991
Total	Number of Retirees	2,972	3,098	3,184	3,544	3,602

2.2(d) Statistics on All Retirees as of June 30

		<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
Service Retirements						
 Number, Prior Year Net Change During Year Number, This Year Average Age At Retirement Average Age Now 		2,194 566 2,760 55.11 61.84	2,760 110 2,870 54.91 62.25	2,870 78 2,948 54.80 62.84	2,948 374 3,322 54.14 61.82	3,322 30 3,352 53.83 62.15
(6) Average Monthly Benefit	\$	1,793	\$ 1,834	\$ 1,879	\$ 1,950	\$ 2,013
Surviving Spouse's Benefits						
 Number, Prior Year Net Change During Year Number, This Year Average Age At Retirement Average Age Now Average Monthly Benefit 	\$	70 15 85 55.83 66.74 708	\$ 85 18 103 55.56 67.26 738	\$ 103 5 108 55.76 67.79 794	\$ 108 17 125 54.44 65.95 1,093	\$ 125 25 150 54.04 65.90 1,339
Survivor's Benefits (other than spe	ouses)					
 Number, Prior Year Net Change During Year Number, This Year Average Age At Retirement Average Age Now Average Monthly Benefit 	\$	32 4 36 36.15 44.66 1,513	\$ 36 (5) 31 35.42 43.73 1,652	\$ 31 0 31 35.42 44.73 1,661	\$ 31 (30) 1 23.81 41.68 544	\$ 1 2 50.47 59.01 3,013
Disabilities						
 Number, Prior Year Net Change During Year Number, This Year Average Age At Retirement Average Age Now Average Monthly Benefit 	\$	80 11 91 44.39 49.87 2,125	\$ 91 3 94 44.22 49.71 2,267	\$ 94 3 97 44.18 50.14 2,304	\$ 97 (1) 96 44.15 50.33 2,358	\$ 96 2 98 43.30 49.97 2,552
Total Number of Retirees		2,972	3,098	3,184	3,544	3,602



2.2(e) Distributions of Annual Benefits for Benefit Recipients

	Annual I	Benefit By Age		Annual Benefit By Years Since Retirement					
	Number Total				Years	Number	Total	Average	
Age	of	Annual	Annual		of	of	Annual	Annual	
Groups	<u>People</u>	<u>Benefit</u>	<u>Benefit</u>		Service	People	<u>Benefit</u>	<u>Benefit</u>	
0-19	5	\$ 30,030	\$ 6,006		0	120	\$ 2,866,958	\$ 23,891	
20-24	0	0	0		1	518	13,261,137	25,601	
25-29	0	0	0		2	211	5,232,584	24,799	
30-34	2	29,466	14,733		3	103	2,439,473	23,684	
35-39	5	128,940	25,788		4	564	15,967,064	28,310	
40-44	62	1,576,467	25,427		0- 4	1,516	39,767,216	26,232	
45-49	312	7,802,415	25,008		5- 9	912	22,947,031	25,161	
50-54	640	16,258,316	25,404		10-14	603	12,877,045	21,355	
55-59	688	17,440,715	25,350		15-19	419	7,936,137	18,941	
60-64	623	15,454,477	24,807		20-24	116	2,139,177	18,441	
65-69	454	10,648,230	23,454		25-29	30	645,674	21,522	
70-74	379	8,475,522	22,363		30-34	5	117,814	23,563	
75-79	208	4,247,578	20,421		35-39	1	22,559	22,559	
80 +	224	4,360,497	19,467		40+	0	0	0	
Total	3,602	\$86,452,653	\$24,001		Total	3,602	\$86,452,653	\$ 24,001	

Years Since Retirement By Age

	÷			Yea	rs Since R	etirement -				
Age	<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>	35-39	<u>40+</u>	<u>Total</u>
0-19	1	0	3	1	0	0	0	0	0	5
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	2	0	0	0	0	0	0	0	0	2
35-39	3	1	0	0	1	0	0	0	0	5
40-44	55	3	2	2	0	0	0	0	0	62
45-49	275	26	8	2	1	0	0	0	0	312
50-54	495	124	17	3	1	0	0	0	0	640
55-59	381	254	44	6	3	0	0	0	0	688
60-64	212	251	143	16	1	0	0	0	0	623
65-69	73	152	173	53	2	1	0	0	0	454
70-74	16	84	145	129	5	0	0	0	0	379
75-79	1	14	56	119	18	0	0	0	0	208
+08	2	3	_12	_88	84	<u>29</u>	<u>_5</u>	_1	_0	224
Total	1,516	912	603	419	116	30	5	1	0	3,602

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 9% 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	later - 7.5%

5. Mortality

1984 Unisex Pension Mortality Table, set forward one year for male members and set backward four years for female members. All deaths are assumed to result from nonoccupational causes.

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.

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.

11. Contribution Refunds

100% of those terminating after age 35 who are vested 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.

12. C.O.L.A.

Of those benefit recipients who are eligible for the C.O.L.A., 66% are assumed to remain in Alaska and receive the C.O.L.A.

13. New Entrants

Growth projections are made for the active TRS population under three scenarios:

Pessimistic:

0% per year

Median:

1% per year

Optimistic:

2% per year

14. Sick Leave

4.7 days of unused sick leave for each year of service will be available to be credited once the

member is retired.

15. 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 assumption. 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 TRS

Total Turnover Assumptions

Select Rates of Turnover							
During the First 10 Years							
of Employment							
Year of							
Employment	Rate						
1	.26						
2	.24						
3	.16						
4	.12						
5	.11						
6	.10						
7	.09						
8	.09						
9	.09						
10	.09						

Ultimate Rates of 7 After the First 10 of Employme	Years
Ages	Rate
20-39 40+	.03 .02

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

	Age	Rate
	20 21	.14 .14
	22	.14
	23	.15
	24	.15
	25	.15
	26	.15
	26 27	.15
	28	.16
	29	.16
	30	.16
	31	.17
	32 33	.17 .25
	34	.34
	35	.44
	36	.53
	37	.64
	38	.75
	39 40	.87 .99
	41	1.12
	42	1.25
	43	1.39
	44	1.53
	45	1.68
	46	1.84
	47	2.00
	48	2.17
	49	2.34
	50	2.52
	51	2.70
	52	2.89
	53	3.08
	54	3.29
	55	3.49
	56	3.70
	57	3.92
	58	4.14
	59	4.37
	60	4.61
	61	4.84
	62	5.09
	63	5.34
William M. Mercer, Incorporated	64	5.60

Table 3

Alaska TRS
Retirement Rates

Age at	Retirement
Retirement	Rate
50	.10
51	.07
52	.07
53	.07
54	.07
J -	.07
55	.16
56	.16
57	.16
58	.16
	.13
59	.13
	10
60	.13
61	.13
62	.13
63	.13
64	.10
0.	
65	.47
66	.82
67	1.00

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