PER 1.1/1975/5UPP.





# STATISTICAL.

# SEPPLE VENT



## **Public Employees' Retirement Board**

Carl S. Wilkerson, Chairman	State Patrol
Dave Baxter Bernal Brooks Walter Chilton Ada Houck Sheryl Meredith John E. Moreland Mark E. Schwartz	
Barclay Watson.  Margarett Whilden.  Wilborn S. Whitehead.	Colorado Springs Public Schools Jefferson County Public Schools
Sam Brown	

## **Administrative Staff**

Jack E. Kennedy Joseph P. Natale	Executive Secretary Assistant Executive Secretary
William Auld Kent Carsten	Office Services
Donald Clippinger	Retirement Services
Kenneth Peterson	Investments

#### **Consulting Firms**

Gabriel, Roeder, Smith & Company, Actuaries
Peat, Marwick, Mitchell & Co., Certified Public Accountants
Alliance Capital Management Corporation, Investment Counsel
A.G. Becker & Co., Incorporated, Funds Evaluation Service

#### 1975

## STATISTICAL SUPPLEMENT

To the Annual Report of

## The Public Employees' Retirement Association Of Colorado

1390 Logan - 4th Floor Denver, Colorado 80203

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#### Introduction



PERA LEADERSHIP. Pictured above, from left to right, Tom Lindquist, vice chairman of the Retirement Board; Jack Kennedy, executive secretary; and Carl Wilkerson, Board chairman.

This booklet is divided into two major parts: a financial report and an actuarial report. The purpose of this supplement is to supply the interested member with detailed investment, financial, and actuarial information used by the Retirement Board in managing the Public Employees' Retirement Association.

In the financial report, the June 30, 1975, audited financial reports are presented with accompanying auditor's statement and notes. This section also deals with the growth and composition of the asset structure of the fund. Investments of the portfolio are listed as of June 30, 1975.

The actuarial report deals with the fundamental reality facing PERA—the growth of PERA, in terms of both people and dollar assets, and the growth of claims on the fund, accumulating over the years through a statutory promise to pay benefits at retirement.

The Public Employees' Retirement Association has four funds—the State Division, School Division, Municipal Division, and Judges Division. Much of the data in this booklet is consolidated for all four divisions although each fund is separated from the others and is only used to pay claims against that division. Actuarial facts for active members of the Association are listed as of December 31, 1974. Data on retired lives is listed as of June 30, 1975.

Members contribute  $7\frac{3}{4}$  percent of salary paid. While this money is invested, the member's principal amount can only be used for the benefit of the individual member or his survivor. The employers' contributions vary according to Division. These contributions are determined on the basis of actuarial valuations to provide the amount of money needed, in addition to the employee's own contributions, to pay the allowances promised by the Association.

Explanatory materials including several graphs appear throughout to help explain the program. This is the second year for this Annual Statistical Supplement. Response to last year's booklet was good. We hope that this year's report will also be of interest to you and will be helpful in understanding and evaluating the program.

March 1, 1975

Public Employees' Retirement Board of Colorado

> 1390 Logan - 4th Floor Denver, Colorado 80203

How

the Plan

**Operates** 

The PERA retirement plan was established in 1931, and began by covering only state employees. The plan has been greatly extended since that time and now includes employees of the State of Colorado, of all school districts in the state except Denver, and the employees of several municipalities, public health departments, and other local governmental agencies.

This plan is recognized as among the best in existence. Its purpose is to provide income to members and their families when they need it most — at retirement or in case of death or disability.

The Public Employees' Retirement Association is a joint-contributory retirement plan, operating on an actuarial reserve basis.

Here are a few facts regarding the retirement system:

THE RETIREMENT ACT: The law governing the Public Employees' Retirement Association of Colorado is Article 51 of Title 24, Colorado Revised Statutes, 1973, as amended. The last amendatory legislation was enacted in 1975.

Complete copies of the law are available at the Retirement Office.

**ADMINISTRATION OF SYSTEM:** The administration and responsibility for the proper operation of the Association are vested in the Public Employees' Retirement Board of Colorado which is made up of fourteen members, as follows:

Five representatives elected by members from the School Division.

Four representatives elected by members from the State Division.

Two representatives elected by members from the Municipal Division.

One representative elected by those retired under PERA.

The State Treasurer and State Auditor.

The members of the Association elect employee group representatives to the Board for four-year terms.

The legal advisor of the Retirement Board is the State Attorney General. An executive secretary is appointed by the Retirement Board to be secretary and administrative officer of the Association. He, in turn, is responsible for the activities of the staff.

The Board also appoints an actuary who makes annual actuarial valuations to determine the adequacy of the funding of retirement benefit liabilities accrued under the retirement program. The PERA Board submits an annual actuarial valuation report to the Legislative Audit Committee and the Joint Budget Committee of the Colorado General Assembly.

A Medical Advisor is appointed by the Board to study and make recommendations regarding applications for disability retirements. The Board also appoints an advisory Investment Committee and Legislative Committee.

Administrative expenses of the Association are paid from the \$5 membership fees charged the employee upon employment and from a small portion of investment income.

**INVESTMENTS:** The funds of the retirement system are invested primarily in public utility and corporate bonds, common and preferred stock of top-rated companies, and in real estate mortgages insured and guaranteed by agencies of the United States Government.

The law charges the PERA Board with the responsibility of investing the funds in a prudent and discretionary manner and limits investments in common and preferred stocks to 30 percent of the portfolio.

CONTRIBUTIONS BY MEMBERS: Effective July 1, 1973, members of the State, School, Municipal Divisions make deposits of 7-3/4% of salary paid including pay for overtime and additional duties but excluding reimbursement of expenses. Deposits are posted to individual

accounts for each employee. The accumulated amount in each account will be used for the employee's benefit if he remains in service. If he leaves service, he may withdraw the amount of his contributions without interest, or he may, if he has five or more years of service, elect a deferred annuity providing a lifetime income at age 65 or in some cases earlier. If he dies before retirement and no other death benefits are payable, his beneficiary will receive his contributions.

**CONTRIBUTIONS BY EMPLOYER:** While members are saving for retirement, the Employer — State of Colorado, School District, Municipality, other political subdivision — will be making contributions on behalf of their employees. Rates for PERA Divisions differ. The Divisions include State Division, School Division, and Municipal Division.

The employer's contributions are determined on the basis of actuarial valuation and will provide the amount of money needed, in addition to the employee's own contributions, to provide the allowances promised by the Association. The average retired member pays only 15% of the amount he receives as an annuity. The remainder comes from the employer money and investment income.

Employer rates are as follows:

Division	Effective Date	% of Payroll
State	7-1-75	10.64%
School	1-1-76	12.10
Municipal	1-1-76	9.86

The employee rate for the Judges' Division is 7% of salary paid; the employer rate is 12% of payroll.

WHERE TO WRITE FOR INFORMATION: Any member who wishes information which is not given in this booklet may write for further information to:

## PUBLIC EMPLOYEES' RETIREMENT ASSOCIATION

1390 Logan — 4th Floor Denver, Colorado 80203

## **Summary of PERA Benefits**

The following is a brief description of the benefits of the Public Employees' Retirement Association in the State, School, and Municipal Divisions. The reader is reminded that this is only a brief explanation; complete details of the benefits and other aspects of the program may be found in the Law and in the Rules and Regulations of the Retirement Board.

Final Average Salary (FAS) is a frequently used term describing PERA benefits. It means the average of the highest five consecutive years of earnings within the period of service being considered, usually the last five years.

#### If You Resign

You are entitled to a refund of your own deposits to PERA. In addition to this benefit, if you have five or more years of service, you may leave your money on deposit and without further payment you will be eligible for a monthly benefit payable for the rest of your life beginning when you are 60 to 65. This monthly benefit will be based on the amount of your PERA-covered service.

#### If You Die

Your widow or widower will receive a monthly benefit until your youngest child is 18 years of age or until age 23 if the child is unmarried and in school. If you leave no eligible children or after benefits have been paid because of the children, your widow or widower will receive a monthly benefit beginning at his or her age of 60, earlier if you have more service. To be eligible for these survivor benefits you must have at least one year's service under PERA unless the death is service incurred in which case there is no service credit requirement. If you leave no eligible survivors for monthly benefits, your beneficiary will receive a refund of the amount of money you have deposited with PERA.

#### If You Are Permanently Disabled

You will receive a maximum of 50 percent FAS. This could be higher if you have more than 20 years covered service. One percent of FAS would be added for each year over 20. If you were hired after age 45, the percentage of FAS would be less than 50 percent.

This benefit is payable for the rest of your life or until you recover from the disability. In order to qualify for this benefit, you must have had five years' of service credit under PERA since last date of employment.

#### If You Retire

You can retire as early as age 55 provided you have at least 20 years of PERA service credit at that age. You can retire at age 60 with as few as five years of PERA service credit. Your benefit depends on your Final Average Salary, your service, and at what age you decide to retire. For example, a person retiring at age 60 with 20 years of credited service would receive a monthly annuity of 50 percent of Final Average Salary.

The formula used to compute your retirement benefits is:

2½% of Final Average Salary per year — 1st 20 years of service. 1% of Final Average Salary — 21-40 years of service.

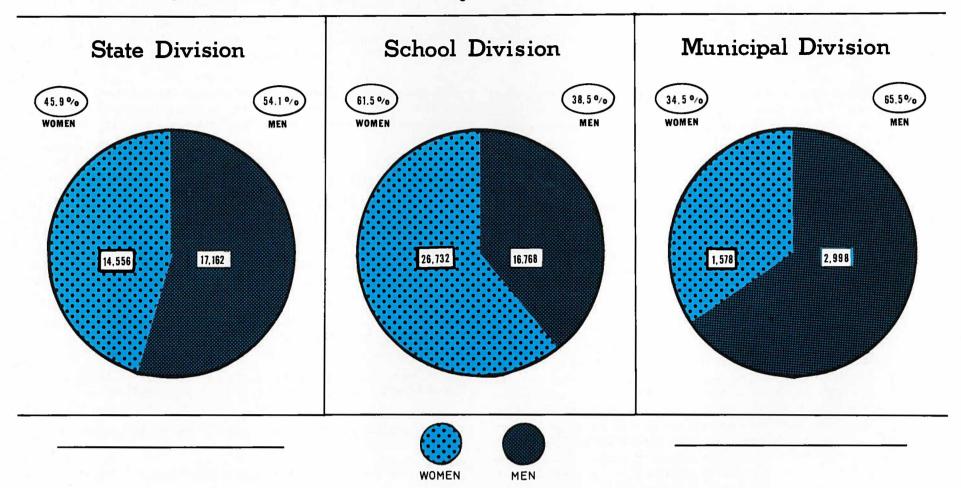
(1% is only applied to service after July 1, 1969, under current law.)

Maximum-70%

This formula is reduced in certain cases.

#### NUMBERS OF ACTIVE MEMBERS BY DIVISION 12-31-74

(Further Distribution According to Sex)



#### PEAT, MARWICK, MITCHELL & Co.

#### CERTIFIED PUBLIC ACCOUNTANTS

1600 BROADWAY

DENVER, COLORADO 80202

The Retirement Board
Public Employees' Retirement
Association of Colorado:

We have examined the combining balance sheet of the Public Employees' Retirement Association of Colorado (consisting of State Employees', School Employees', Municipal Employees' and Judges' Divisions) as of June 30, 1975 and the related combining statements of revenue and administrative expense and changes in reserve accounts for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

The estimated obligation of employers for prior service based on the separate actuarial information of each division and aggregating \$582,509,667 is based on reserves required for member benefits accrued at December 31, 1974 and is presented in accordance with a certification submitted by the Association's consulting actuaries.

In our opinion, based upon our examination and relying upon the certification mentioned in the preceding paragraph, the aforementioned combining financial statements present fairly the combined and individual financial position of Public Employees' Retirement Association of Colorado (consisting of State Employees', School Employees', Municipal Employees' and Judges' Divisions) at June 30, 1975 and their combined and individual transactions for the year then ended, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

We have reported separately under date of August 22, 1975 on the financial statements of each of the divisions for the years ended June 30, 1975 and 1974.

Peal, Manwick, Mitchell ; Co.

## **Combining Balance Sheet**

June 30, 1975 with comparative combined totals for 1974

#### **Assets**

	Municipal Employees'	School Employees'	Judges'	State Employees'	Combined total
	Division	Division	Division	Division	1975 1974
Cash	\$ 153,719	1,310,503	47,240	524,805	, 2,036,267 1,337,121
Receivables:					
Member and employer contributions  Dividends and accrued interest on investments	611.054	7 101 147	107.084	5,629,347 5 613 089	11,618,702 9,982,165 13,432,374 10,177,334
Other					
	1,296,269	12,515,401	178,065	11,383,815	25,373,550 20,213,286
Investments (note 2):		the Marie San	1		00.005.000
Temporary investments, at cost					
Stocks, at cost	. 5,489,769	82,083,561	1,124,617	64,259,538	152,957,485 127,867,439
United States Government obligations, at amortized cost	1 700 744	00 164 100	040 447	10 050 700	40 150 090 52 653 971
First mortgages, at amortized cost					
Colorado bonds, at cost					
Total investments before unamortized	07.040.057	500 000 407			705 450 040
yield adjustment					
onamorazoa yidia aajadament yirii irii irii irii irii irii irii ir					965,080,106 809,955,701
Land, at cost	TRATE OF STREET	. 1.7	= :	180,000	180,000 180,000
Building in process (note 4)	- 11			385,073	385,073 —
Equipment and fixtures, at cost, less accumulated depreciation of \$91,849 in 1975; \$77,807 in 1974		= .	—		59,978 52,588
Total Real Assets					
Estimated obligation of employers for prior					
service (contra)					
	\$38,000,270				1,070,027,071

### **Liabilities and Reserves**

	Municipal Employees' Division	<b>Employees'</b>	Judges' Division	State Employees' Division	Combined total 1975 1974
Refunds and other liabilities payable	\$ 121,094	767,365	1,416.	908,143	1,798,018 2,213,515
Members' deposits Employers':	. 12,586,604	154,478,074	1,699,275 .	128,046,452	296,810,405 255,090,397
Accumulation	. 12.821.905	188.520.816	2.572.051.	74.775.668	278,690,440 229,433,401
Actuarial requirements (contra)					
,					1,158,010,5121,031,605,562
Annuity:					
Annuitants' retirement	. 13.404.108	176.571.886	2.117.513.	192.336.115	384,429,622 318,853,504
Survivors' benefit					
Deferred annuitants'	, , , , ,				
Deferred survivors' benefit					
	15,044,038	187,795,573	2,765,523.	206,470,083	412,075,217 341,809,915
Insurance dividend reserve (note 3)	_	–	– .	3,740,894	3,740,894 3,191,468
Total reserve accounts					
Communicities (note 4)					
	\$ <u>59,866,276</u>	827,668,902	7,877,715	680,211,748	1,575,624,6411,378,820,460

See accompanying notes to combining financial statements.

### **Combining Statement of Revenue and Administrative Expense**

Year ended June 30, 1975 with comparative combined totals for 1974

	Municipal Employees'	School Employees'	Judges'	State Employees'	Con	nbined total
	Division	Division	Division	Division	1975	1974
Revenue:					10.0	1014
Interest income:						
Corporate obligations						
United States Government obligations						
First mortgages						
Temporary investments						
Colorado bonds		···· — ··	. –	–		5,500
Dividend income	154,365	2,438,848	34,274	1,931,482	4,558,969	3,780,286
Gain on sale of investments, net	44,762	531,360	8,348	408,361	992,831	990,489
Amortization of premiums and discounts on						
investments, net	119,557	1,242,703	25,623	936,080	2,323,963	1,897,644
Membership fees	6,765	44,680	90	34,740	86,275	87,033
Other, net	3,809	<u> 98,904</u>	(1 <u>60</u> )	<u> 69,343</u>	171,896	170,640
		31,262,793				
Less amortization of yield adjustment	88,057	<u> 437,211</u>	15,646	367,122	908,036	737,508
	2,361,091	30,825,582	. 425,388	24,232,979	57,845,040	47,070,465
Administrative expenses (note 5)	65,886	636,002	3,113	477,874	1,182,875	957,616
Excess of revenue over expense distributed			-			
to reserve accounts	\$2,295,205	30,189,580	. 422,275	23,755,105	56,662,165	46,112,849
	· · · · · · · · · · · · · · · · · · ·					

See accompanying notes to combining financial statements.

## **Combining Statement of Changes in Reserve Accounts**

## Year ended June 30, 1975 with comparative combined totals for 1974

Contributions	Municipal Employees' Division	Employees'	Judges' Division	State Employees' Division	Con 1975	nbined total 1974
Contributions:  Members Employer						
	7,574,026	75,823,407	882,391 .	<u>. 65,355,160</u> .	149,634,984	124,292,243
Excess of revenue over expense  Cost of living adjustments appropriated by the	2,295,205	30,189,580	422,275 .	23,755,105 .	56,662,165 .	46,112,849
Colorado State Legislature Transfers for split annuities:	19,598	228,417	. – .	373,447	621,462 .	655,199
From School Employees' Division to State Employees' Division From Municipal Employees' Division to State	_	(658,300)	. – .	658,300 .		
Employees' Division  From School Employees' Division to Municipal	(42,154)	–		42,154 .	. – .	_
Employees' Division	35,428	(35,428)	. – .		. –	_
Refunds due to withdrawal of participating members						
tion of employers for prior service adjusted to actuaries' certificates						
insurance and administrative expenses (note 3)  Net increase for the year						
Balance, beginning of year						
Balance, end of year	\$ <u>59,745,182</u>	. <u>826,901,537</u>	<u>. 7,876,299</u> .	679,303,605	1,573,826,623	1,376,606,945

See accompanying notes to combining financial statements.

## **Notes to Combining Financial Statement**

June 30, 1975

# (1) Summary of Significant Accounting Policies Valuation of Reserve Accounts Basis of Combining Financial Statements

The accompanying combining financial statements include the accounts of the State, School and Municipal Employees' and Judges' Division. Each division's accounts are separately maintained and all actuarial determinations are made on the basis of each division's separate actuarial information.

#### **Employer Contributions**

The effective statutory employer contribution rates ranged from 9.86 to 12.10 percent of active member payroll. The Association's actuary uses the "entry age normal" ("attained age normal" for Judges' Division) actuarial method to determine annuity liabilities and normal costs. As of December 31, 1974, after considering current cost contributions, the actuarially computed number of years necessary to accumulate assets to fund the actuarial liability for prior service ranged from 18 to 41 years. Such computations exclude the undistributed net income earned by the divisions for the period July 1 to December 31 of each year and the December contributions not received until the following January.

The aggregate unfunded actuarial liability of \$582,509,667 computed as of December 31, 1974 is presented in the balance sheet as estimated obligation of employers for prior service and as an employer reserve titled "actuarial requirement."

#### **Members' Deposits**

Members' contribution rates are established by state statute and are deducted from the members' salary and remitted by the various participating agencies.

#### **Annuity and Deferred Annuity**

Annuity and deferred annuity accounts are recorded at amounts sufficient to reflect the actuarially computed discounted accrued liability of each reserve.

#### **Investments**

Temporary investments, consisting of corporate notes, are shown at purchased cost. Maturities are generally less than 30 days. Income is recognized when the notes are sold.

Stock investments, principally common stock, are recorded at purchased cost. Dividend income is recognized when dividends are payable. Gains or losses on stocks sold are recognized on the basis of the average cost of the aggregate stock being sold.

First mortgages are presented at amortized cost. Discounts recorded at the time of purchase are amortized on a straight-line basis for guaranteed purchase agreements covering a group of individual mortgages and by the use of the "scientific method" for other mortgages. Income is recognized on a monthly basis over the various lives of the respective mortgages.

Other investments, principally corporate obligations, are reflected at amortized cost. Premiums and discounts recorded at the time of bond purchases are amortized to the call date and maturity date, respectively. Income is recorded as earned over the life of the investment.

Unamortized yield adjustment on bond exchanges reflects the deferral of gains and losses when bonds are exchanged for similar bonds to achieve a higher yield. These gains and losses are amortized to the respective earliest maturity date of the new bond acquired or the old bond exchanged. Losses of \$1,849,182 and \$763,787 on bond exchanges were deferred during the years ended June 30, 1975 and 1974, respectively.

#### **Equipment and Fixtures**

Equipment and fixtures are stated at cost and carried on the State Employees' division books. Depreciation is provided using the straight-line method in order to apportion the cost of the depreciable assets over the various useful lives of from 2 to 10 years.

#### **Administrative Expenses**

The expenses incurred by the Association are allocated to the various divisions on the basis of the relationship of the number of members in the division to the total membership in the Association.

(2) **Investments**A summary of investments as of June 30, 1975 with comparative combined totals is as follows:

amortized cost:     Par value \$28,947,077 323,213,314 4,752,548 262,846,115 619,759,054 498,089,067 Less discount net 2,187,597 14,793,084 363,337 11,829,896 29,173,914 18,656,823 \$26,759,480 308,420,230 4,389,211 251,016,219 590,585,140 516,367,698 479,432,244 403,740,299 Stocks, at cost \$5,489,769 82,083,561 1,124,617 64,259,538 152,957,485 162,715,085 127,867,439 113,946,685 United States Government obligations, at amortized cost:     Par value \$1,791,207 28,381,999 349,447 18,901,665 49,424,318 54,006,907 Add premium, (less discounts), net 1,537 (217,891) (48,875) (265,229) (353,036) 43,644,960			19	75			_	
Temporary investments, at cost:   Face value   \$1,950,000   21,700,000   315,000   17,300,000   41,265,000   26,775,000   149,772   149,773   14	Municipal	School			C	ombined	1974 Co	mbined
Temporary investments, at cost: Face value \$ 1,950,000 21,700,000 315,000 17,300,000 41,265,000 26,775,000 Less discount 5,866 74,422 970 55,476 136,734 149,772 \$ 1,944,134 21,625,578 314,030 17,244,524 41,128,266 41,128,266 26,625,228 26,625,229 2		and the second s					4	
at cost: Face value \$ 1,950,000 21,700,000 315,000 17,300,000 41,265,000 26,775,000 Less discount 5,866 74,422 970 55,476 136,734 149,772 \$ 1,944,134 21,625,578 314,030 17,244,524 41,128,266 41,128,266 26,625,228 26,625,228  Corporate obligations, at amortized cost: Par value \$28,947,077 323,213,314 4,752,548 262,846,115 619,759,054 498,089,067 Less discount		Division	Division	Division	Total	value	Total	value
Less discount	at cost:							
\$ 1,944,134	Face value \$ 1,950,000.	21,700,000	315,000	. 17,300,000	41,265,000		. 26,775,000	
Corporate obligations, at amortized cost:     Par value \$28,947,077 . 323,213,314 . 4,752,548 . 262,846,115 . 619,759,054 . 498,089,067	Less discount 5,866.	74,422	<u> 970 .</u> .	55,476	136,734	• • • • • • • • • • • • • • • •	. <u> 149,772                                   </u>	
amortized cost:     Par value \$28,947,077	<u>\$ 1,944,134</u> .	. 21,625,578 .	314,030	. 17,244,524	41,128,266	<u>41,128,266</u>	26,625,2282	26.625.228
Par value \$28,947,077 323,213,314 4,752,548 262,846,115 619,759,054 498,089,067 Less discount net 2,187,597 14,793,084 363,337 11,829,896 29,173,914 18,656,823 \$26,759,480 308,420,230 4,389,211 251,016,219 590,585,140 516,367,698 479,432,244 403,740,299 Stocks, at cost \$5,489,769 82,083,561 1,124,617 64,259,538 152,957,485 162,715,085 127,867,439 113,946,685 United States Government obligations, at amortized cost: Par value \$1,791,207 28,381,999 349,447 18,901,665 49,424,318 54,006,907 Add premium, (less discounts), net \$1,792,744 28,164,108 349,447 18,852,790 49,159,089 40,943,205 53,653,871 43,644,960 First mortgages, at amortized cost: Face value \$1,988,813 73,194,606 444,842 46,981,807 122,610,068 113,433,586 Less discount, net \$1,083 3,679,586 53,543 2,909,361 6,803,573 5,709,152	Corporate obligations, at							
Less discount net		. 323,213,314	. 4,752,548	262,846,115	619,759,054		498,089,067	
\$26,759,480	Less discount							
Stocks, at cost	net2,187,597.	. 14,793,084 .	363,337	. 11,829,896	29,173,914	• • • • • • • • • • • • • • • •	. 18,656,823	
United States Government obligations, at amortized cost:     Par value \$ 1,791,207 . 28,381,999 . 349,447 . 18,901,665 49,424,318 54,006,907	<u>\$26,759,480</u> .	. 308,420,230 .	. 4,389,211	251,016,219	590,585,140	516,367,698	479,432,244 40	03,740,299
United States Government obligations, at amortized cost:     Par value \$ 1,791,207 . 28,381,999 . 349,447 . 18,901,665 49,424,318 54,006,907	Stocks, at cost \$ 5,489,769.	82,083,561 .	. 1,124,617	. 64,259,538	152,957,485	162,715,085	127,867,4391	13,946,685
obligations, at amortized cost:  Par value \$ 1,791,207 28,381,999 349,447 18,901,665 49,424,318 54,006,907 Add premium, (less discounts), net	United States Government							
Par value \$ 1,791,207 28,381,999 349,447 18,901,665 49,424,318								
Add premium, (less discounts), net	_							
(less discounts), net		28,381,999 .	349,447	18,901,665	49,424,318		. 54,006,907	
counts), net	•							
\$ 1,792,744 28,164,108 349,447 18,852,790	•	(0.17.004)		(40.075)	(005,000)		(050 000)	
First mortgages, at amortized cost: Face value \$ 1,988,813 73,194,606 444,842 46,981,807 122,610,068								
at amortized cost: Face value \$ 1,988,813 73,194,606 444,842 46,981,807 122,610,068	<u>\$ 1,792,744</u> .	<u>. 28,164,108</u> .	349,447	. <u>. 18,852,790</u>	<u>. 49,159,089</u>	40,943,205	. 53,653,871	43,644,960
Face value \$ 1,988,813 73,194,606 444,842 46,981,807 122,610,068	First mortgages,							
Less discount, net								
net		73,194,606 .	444,842	46,981,807	122,610,068		113,433,586	
<u>\$ 1,827,730</u> 69,515,020 391,299 44,072,446 115,806,495 94,951,680 . 107,724,434 83,789,192								
	<u>\$ 1,827,730</u> .	. 69,515,020 .	391,299	. 44,072,446	<u>115,806,495</u>	<u>. 94,951,680</u>	107,724,434	83,789,192
Colorado bonds,	Colorado bonds,							
at cost	at cost	· <u> </u>				··· <u> </u>	150,000	150,000

#### (3) Insurance Dividend Reserve

An insurance dividend reserve is included in the records of the State Employees' Division. This reserve is being held for the benefit of all of the Association's participating members. The reserve represents dividends paid by the insurance company for excess life insurance premiums paid by the participating members. Such amount is used to purchase paid-up life insurance for eligible members when they retire and additional paid-up life insurance for active insured members. The changes in this reserve for the year ended June 30, 1975 and 1974 were as follows:

	1975	1974
Balance at beginning of year	\$3,191,468	. 2,763,215
Excess of revenue over expense allocable		
to insurance reserve	201,913	164,288
Dividends received from insurance		
company		
Paid-up life insurance purchased	(194,553)	(119,487)
Reimbursement to divisions for ad-		
ministrative expenses relating to		
insurance program	(30,249)	(25,000)
Balance at end of year	\$3,740,894	. 3,191,468

#### (4) Commitments

At June 30, 1975, the various divisions were committed to purchase investments at an aggregate cost of \$35,774,000.

The Association has an agreement to lease office space at a base cost of \$5,155 per month. The agreement expires on March 1, 1976.

During the year ended June 30, 1975, the Association entered into an agreement to construct an office building at a cost of approximately \$3,306,000 on which \$385,073 was expended prior to June 30, 1975. Construction is scheduled for completion during 1976.

#### (5) Administrative Expenses

The following is a schedule of administrative expenses for the years ended June 30, 1975 and 1974:

	1975	
Salaries		
Employee benefits	73,796	52,289
Professional services:		*
Investment counsel	. 110,000	97,500
Actuarial	18,150	18,950
Accounting	25,000	23,000
Rent:		
Equipment	79,499	64,597
Office	62,775	54,502
Depreciation	17,226	15,749
Stationery, printing and office expenses	56,985	43,568
Postage	36,193	24,445
Telephone	10,139	10,482
Medical examination fees	42,298	26,714
Board member expenses	11,770	10,791
Other, net	31,930	27,467
1	,213,124	982,616
Less reimbursement by Group		
Insurance Department	30,249	25,000
<u>\$</u> 1	,182,875	957,616

## **PERA Investment Policy**

The Board of Directors of the Public Employees' Retirement Association of Colorado hereby adopts the following policy with respect to the investment of retirement funds:

- 1. The gradual accumulation of common stocks up to the 30% legal limitation (at cost), at such pace as the Board may determine from time to time. The following tests for such securities shall be considered at the time of purchase:
  - Paid a cash dividend for not less than five years prior to purchase
  - Additional common stocks may be added or deleted from the Approved Common Stock List upon recommendation of investment counsel and concurrence of staff, subject to the Board of Directors approval.
  - c. Stocks may be bought and sold as may be deemed in the best interest of the retirement fund upon recommendation of investment counsel.
  - d. The principles of the modified theory of dollar average on common stock investments may be considered in purchase of equities.
  - e. Investment in the common stock of an individual corporation shall be limited to 10 million dollars (\$10,000,000) total of all funds consolidated.
- 2. Inasmuch as the law limits purchases of equities, and the Board is charged with the responsibility for selection of common or preferred stock, no investment shall be made in mutual funds.
- 3. Investments may also be made in obligations guaranteed by the United States, or its agencies, and also corporate bonds public utility or industrial. Any investment in corporate bonds shall be made only in bonds of investment quality (three highest ratings) as rated by any two national investment services as may be selected by the Board, provided convertible corporate bonds may be purchased with lower ratings as may be deemed advisable.
- 4. United States direct obligations and/or high grade Colorado Municipal bonds may be purchased from time to time as the Board

deems advisable taking into consideration yield, price and appreciation over a long term.

#### 5. Mortgages

- a. No individual home loans shall be made but this shall not preclude guaranteed participation agreements covering a group of individual home loans.
- Loans may be made for commercial or industrial purposes through qualified mortgage bankers as may be deemed advisable.
- c. The Board may retain a professional advisor on mortgages when necessary.
- 6. Investment in foreign issues stocks or bonds shall not be made until further notice.
- 7. The Board shall endeavor to maintain a balanced portfolio, i.e., diversification in equities, corporate bonds, government guaranteed investments, mortgages, commercial paper, and miscellaneous investment sources, always emphasizing that the soundness and safety of principal should be the primary consideration, with yield, income and appreciation secondary, and as to equities, the long range prospects should be of primary consideration. Speculative or "trading" operations should be avoided.
- 8. All other investments permitted by law shall be made on a "per offering" basis, with each situation being examined on its own merits as to risk and yield.
- 9. To implement statistical data needed, the Board should subscribe to at least two investment service publications of national recognition which will furnish current information on investment quality and market cycles of corporate stocks and bonds. The Board shall retain investment counsel to provide information and investment opinion, advisability of acquisition of and advantageous timing relative to corporate bonds, common and preferred stock, together with recommendations for diversification of portfolio, etc.
- 10. All final decisions on purchases and sales of investments shall be made by the Retirement Board, but the investment sub-

committee and/or executive officer shall be authorized to make such purchases or sales on behalf of the Board as are permitted under Board policy. The responsibility of management of the portfolio is vested by law in the Board and such cannot be delegated.

11. Investments in the present portfolio heretofore acquired should not be disturbed, except when definite gains in capital appreciation or current yield can be unmistakably achieved by trading or refund operations, which may from time to time be available. All losses and/or gains in the equity portfolio shall be taken in toto in the fiscal year in which the transaction takes place. Gains and/or losses in the government or corporate bond portfolio shall be amortized on an annual basis to the earliest maturity date of the bond sold or purchased.

A modified accrual method of accounting shall be used with amortization of premiums and discounts on bonds purchased as follows:

- A. Premiums shall be amortized to the 1st call date.
- B. Discounts shall be amortized to maturity date.
- 12. At least semi-annually, the investment subcommittee shall report to the Retirement Board the operating results and trends, with any recommendations for changes in the investment policy as may be deemed advisable.
- 13. The purchase of general market securities shall be made from such investment firms as may make the most advantageous offerings and service, with due regard for distribution of the placements, and further that common stock orders shall be filled through investment firms who are members of recognized national exchanges, as may be determined by the Retirement Board, and are desirous of handling such business at not to exceed standard commissions and/or service charges and who demonstrate their ability to handle such business to the satisfaction of the executive officers, investment subcommittee and Retirement Board. The use of third market investment firms is also permissible when beneficial to the retirement fund.

#### **Investment Report**

The fiscal year commenced with considerable concern for the national as well as the international economic environment.

At that juncture of time the degree of the economic adjustment,

which was just beginning to be recognized in statistical economic data, was not anticipated. In our last report we commented on the uncertainties in the areas of politics, inflation, energy, high interest rates, declining stock prices, and decreasing disposable personal income.

These adverse economic conditions deepened as the year progressed. We witnessed double digit inflation, the highest in years, which eroded real personal income significantly; excessive inventories were liquidated totaling billions of dollars; unemployment continued to increase; interest rates continued upward to a point where short-term rates exceeded 12 percent, and AA rated utility bonds were yielding 10½ percent; and common stocks declined to extremely depressed levels. What we all participated in was the worst recession since the 1930's.

As we begin a new fiscal year, it would appear that the worst of the recession is behind us, but remaining problems such as inflation, unemployment, lack of confidence in the future, the New York City financial problem, to name a few, have yet to be resolved.

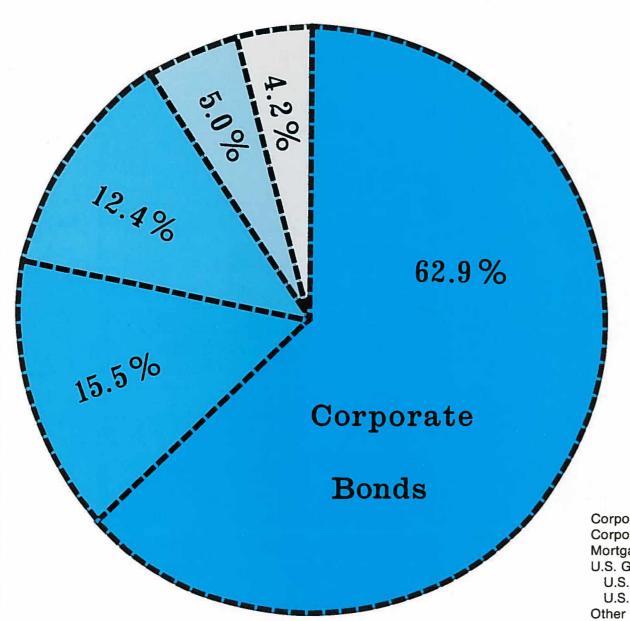
On the positive side many excesses in our economy have been "washed-out" providing a base for solid real economic growth in future years. The actual Gross National Product is far below the potential Gross National Product. Industrial capacity in use remains below 70 percent, and inventories as a ratio to sales have improved considerably relative to historic norms. Inflation has subsided from lofty heights even though still considerably above the comfort zone, interest rates have declined substantially, and stocks have returned to reasonable valuations.

It is believed that the underlying resiliency of the U.S. economy is more than adequate to cope with and resolve current and future problems which must be dealt with in order to achieve sustainable real economic growth in order to provide reasonable investment opportunities and rates of return. These problems cannot be solved without substantial effort and a willingness by all concerned—the public, the corporate community, and government—to make some sacrifice in desires over the short-term in order to attain longer-term benefits.

Our continuing objective is to consistently achieve maximum long-term rates of return, without exposing the portfolio to undue risks and prudently preserving principal.

The results for our fiscal year ended 6/30/75, as measured by Becker Securities Corporation evaluation service, are presented on page 22 of this report.

## **Investment Portfolio Distribution**



(At Cost) As of June 30, 1975

 Corporate Bonds
 62.9%

 Corporate Stocks
 15.5

 Mortgages
 12.4

 U.S. Government,
 U.S. Agency

 U.S. Guaranteed
 5.0

 Other Holdings
 4.2

 Total
 100.0%

## **Fixed Income Securities**

	Par Value	Cost	Market Value June 30, 1975
Short term investments - Less than 30 days Corporate Obligations Bonds	\$ 41,265,000 \$	41,128,266.	\$ 41,128,266
Public Utilities - Telephone	154,707,593	145,761,738.	117,826,369
Industrial Transportation Financial	72,698,899	. 71,697,988.	64,648,153
Total Corporate Obligations  Other Debt Obligations  Mortgages, Contracts & Notes			
Total Fixed Income Securities			

Convertible Securities Convertible Bonds	1,000,000\$	1,000,000\$	850,000
Preferred Stock Public Utilities	5,000 (shs)\$	500,000\$	208,750

## **Common Stocks**

Science & Technology		Shares Held	Cost	Market Value June 30, 1975
Business Equipment	Science & Technology			
Honeywell Inc.				
Xerox Corporation       19,700       1,939,429       1,381,463         Total Science and Technology       \$ 7,924,884       \$ 6,187,663         Consumer Products & Services         Automotive       66,400       \$ 4,343,946       \$ 2,730,700         General Motors Corporation       56,300       4,437,858       2,744,625         \$ 8,781,804       \$ 5,475,325         Broadcasting         CBS Inc.       155,000       \$ 6,321,926       \$ 8,021,250         Building and Building Products         Armstrong Cork Company       56,800       \$ 2,120,319       \$ 1,562,000         Drugs, Cosmetics and Hospital Supplies         American Home Products Corporation       94,400       \$ 2,066,211       \$ 3,941,200         Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800		16,700	\$ 1,538,189	\$ 668,000
Total Science and Technology	International Business Machines Corporation	19,800	4,447,266	4,138,200
Consumer Products & Services           Automotive         66,400         \$ 4,343,946         \$ 2,730,700           General Motors Corporation         56,300         4,437,858         2,744,625           \$ 8,781,804         \$ 5,475,325           Broadcasting         CBS Inc.         155,000         \$ 6,321,926         \$ 8,021,250           Building and         Building Products           Armstrong Cork Company         56,800         \$ 2,120,319         \$ 1,562,000           Drugs, Cosmetics and         Hospital Supplies           American Home Products Corporation         94,400         \$ 2,066,211         \$ 3,941,200           Avon Products Incorporated         37,700         3,238,634         1,790,750           Bristol Myers Company         15,500         1,073,344         1,067,563           Johnson & Johnson         12,200         1,416,712         1,187,975           Pfizer Incorporated         84,400         2,981,774         2,827,400           Schering-Plough Corporation         81,000         4,943,255         4,718,250           Warner-Lambert Company         92,600         3,852,171         3,518,800				
Automotive         Ford Motor Company       66,400       \$ 4,343,946       \$ 2,730,700         General Motors Corporation       56,300       .4,437,858       .2,744,625         \$ 8,781,804       \$ 5,475,325         Broadcasting         CBS Inc.       155,000       \$ 6,321,926       \$ 8,021,250         Building and         Building Products         Armstrong Cork Company       56,800       \$ 2,120,319       \$ 1,562,000         Drugs, Cosmetics and         Hospital Supplies         American Home Products Corporation       94,400       \$ 2,066,211       \$ 3,941,200         Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800	Total Science and Technology		\$ 7,924,884	\$ 6,187,663
Automotive         Ford Motor Company       66,400       \$ 4,343,946       \$ 2,730,700         General Motors Corporation       56,300       .4,437,858       .2,744,625         \$ 8,781,804       \$ 5,475,325         Broadcasting         CBS Inc.       155,000       \$ 6,321,926       \$ 8,021,250         Building and         Building Products         Armstrong Cork Company       56,800       \$ 2,120,319       \$ 1,562,000         Drugs, Cosmetics and         Hospital Supplies         American Home Products Corporation       94,400       \$ 2,066,211       \$ 3,941,200         Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800				
Ford Motor Company       66,400       \$ 4,343,946       \$ 2,730,700         General Motors Corporation       56,300				
General Motors Corporation       56,300       4,437,858       2,744,625         \$ 8,781,804       \$ 5,475,325         Broadcasting         CBS Inc.       155,000       \$ 6,321,926       \$ 8,021,250         Building and         Building Products         Armstrong Cork Company       56,800       \$ 2,120,319       \$ 1,562,000         Drugs, Cosmetics and         Hospital Supplies         American Home Products Corporation       94,400       \$ 2,066,211       \$ 3,941,200         Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800		00.400	<b>A</b> 4 040 040	A 0.700.700
\$ 8,781,804       \$ 5,475,325         Broadcasting         CBS Inc.       155,000       \$ 6,321,926       \$ 8,021,250         Building and         Building Products       Armstrong Cork Company       56,800       \$ 2,120,319       \$ 1,562,000         Drugs, Cosmetics and         Hospital Supplies       American Home Products Corporation       94,400       \$ 2,066,211       \$ 3,941,200         Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800	Ford Motor Company	56,400	4,343,946	2,730,700
Broadcasting         CBS Inc.       155,000.       \$ 6,321,926.       \$ 8,021,250         Building and         Building Products         Armstrong Cork Company.       56,800.       \$ 2,120,319.       \$ 1,562,000         Drugs, Cosmetics and         Hospital Supplies         American Home Products Corporation.       94,400.       \$ 2,066,211.       \$ 3,941,200         Avon Products Incorporated.       37,700.       3,238,634.       1,790,750         Bristol Myers Company.       15,500.       1,073,344.       1,067,563         Johnson & Johnson.       12,200.       1,416,712.       1,187,975         Pfizer Incorporated.       84,400.       2,891,774.       2,827,400         Schering-Plough Corporation.       81,000.       4,943,255.       4,718,250         Warner-Lambert Company.       92,600.       3,852,171.       3,518,800	General Motors Corporation	56,300		
CBS Inc.       155,000.       \$ 6,321,926.       \$ 8,021,250         Building and Building Products         Armstrong Cork Company       56,800.       \$ 2,120,319.       \$ 1,562,000         Drugs, Cosmetics and Hospital Supplies         American Home Products Corporation       94,400.       \$ 2,066,211.       \$ 3,941,200         Avon Products Incorporated       37,700.       3,238,634.       1,790,750         Bristol Myers Company       15,500.       1,073,344.       1,067,563         Johnson & Johnson       12,200.       1,416,712.       1,187,975         Pfizer Incorporated       84,400.       2,891,774.       2,827,400         Schering-Plough Corporation       81,000.       4,943,255.       4,718,250         Warner-Lambert Company       92,600.       3,852,171.       3,518,800			\$ 8,781,804	\$ 5,475,325
Building and Building Products         Armstrong Cork Company       56,800       \$ 2,120,319       \$ 1,562,000         Drugs, Cosmetics and Hospital Supplies         American Home Products Corporation       94,400       \$ 2,066,211       \$ 3,941,200         Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800	Broadcasting			
Building Products         Armstrong Cork Company       56,800       \$ 2,120,319       \$ 1,562,000         Drugs, Cosmetics and Hospital Supplies         American Home Products Corporation       94,400       \$ 2,066,211       \$ 3,941,200         Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800	CBS Inc	155,000	\$ 6,321,926	\$ 8,021,250
Building Products         Armstrong Cork Company       56,800       \$ 2,120,319       \$ 1,562,000         Drugs, Cosmetics and Hospital Supplies         American Home Products Corporation       94,400       \$ 2,066,211       \$ 3,941,200         Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800	Building and			
Armstrong Cork Company       56,800\$ 2,120,319\$ 1,562,000         Drugs, Cosmetics and Hospital Supplies       400\$ 2,066,211\$ 3,941,200         American Home Products Corporation       94,400\$ 2,066,211\$ 3,941,200         Avon Products Incorporated       37,700\$ 3,238,634\$ 1,790,750         Bristol Myers Company       15,500\$ 1,073,344\$ 1,067,563         Johnson & Johnson       12,200\$ 1,416,712\$ 1,187,975         Pfizer Incorporated       84,400\$ 2,891,774\$ 2,827,400         Schering-Plough Corporation       81,000\$ 4,943,255\$ 4,718,250         Warner-Lambert Company       92,600\$ 3,852,171\$ 3,518,800				
Drugs, Cosmetics and         Hospital Supplies         American Home Products Corporation       94,400       \$ 2,066,211       \$ 3,941,200         Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800	Armstrong Cork Company	56,800	\$ 2,120,319	\$ 1,562,000
Hospital Supplies         American Home Products Corporation       94,400       \$ 2,066,211       \$ 3,941,200         Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800				
American Home Products Corporation       94,400       \$ 2,066,211       \$ 3,941,200         Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800				
Avon Products Incorporated       37,700       3,238,634       1,790,750         Bristol Myers Company       15,500       1,073,344       1,067,563         Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800	American Home Products Corporation	94,400	\$ 2,066,211	\$ 3,941,200
Johnson & Johnson       12,200       1,416,712       1,187,975         Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800	Avon Products Incorporated	37,700	3,238,634	1,790,750
Pfizer Incorporated       84,400       2,891,774       2,827,400         Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800	Bristol Myers Company	15,500	1,073,344	1,067,563
Schering-Plough Corporation       81,000       4,943,255       4,718,250         Warner-Lambert Company       92,600       3,852,171       3,518,800	Johnson & Johnson	12,200	1,416,712	1,187,975
Warner-Lambert Company	Pfizer Incorporated	91,000	4.042.255	4 719 250
	Warner Lambort Company	92 600	3 852 171	3 518 800
\$ 19 467 IUI \$ 19.031.330	warrier-Lambert Company	32,000		
Ţ.0, 102, 101 Ţ.0,001,000			\$19,462,101	\$19,051,936
Food, Beverages				
and Tobacco	and Tobacco	05.000	A 0 440 700	A 0 000 000
Borden Incorporated	Borden Incorporated	71,000	2,419,762	3 559 975
General Mills Incorporated	General Mills Incorporated	100 900	4 719 002	5 023 350
Heublein Incorporated       109,800       4,718,092       5,023,350         Philip Morris Incorporated       119,400       4,437,160       6,372,975	Philip Marris Incorporated	119 400	4 437 160	6.372.975
Ralston Purina Company	Raiston Purina Company	89.100	3.469.560	4,009.500

Reynolds (R.J.) Industries, Inc.   97,800   5,935,281   5,819,100		Shares Held	Cost	Market Value June 30, 1975
\$27,593,761   \$28,477,075	Reynolds (R.J.) Industries, Inc.		5,935,281.	5,819,100
Photography   Eastman Kodak Company   51,400   \$4,492,253   \$5,307,050   Retailing   Federated Department Stores, Inc.   100,600   \$4,266,371   \$5,017,425   Penney (J.C.) Company   47,300   3,747,768   3,338,563   3,338,563   3,342,548   3,338,563   3,345,548   3,338,563   3,342,548   3,338,563   3,342,548   3,338,563   3,342,548   3,338,563   3,342,548   3,338,563   3,342,548   3,338,563   3,342,548   3,338,563   3,342,548   3,348,563   3,348,	Royal Crown Cola Company	94,200	2,701,363.	1,660,275
Retailing   Federated Department Stores, Inc.   100,600   \$ 4,266,371   \$ 5,017,425   Penney (J.C.) Company.   47,300   3,174,716   2,743,400   Sears, Roebuck & Company.   45,500   3,742,548   3,338,563   \$ 11,099,388		51,400		
Federated Department Stores, Inc.   100,600   \$ 4,266,371   \$ 5,017,425			+ 1,10=,=001	
Penney (J.C.) Company		100 600	\$ 4 266 371	\$ 5 017 425
Sears, Roebuck & Company         45,500         3,742,548         3,338,563           Other         \$11,183,635         \$11,099,388           Zenith Radio Corporation         18,400         \$1,006,817         \$519,800           Total Consumer Products & Services         \$80,982,616         \$79,513,826           Financial Services         \$80,982,616         \$79,513,826           Banking & Credit         American Express Company         120,000         \$4,122,097         \$5,220,000           Insurance         Actna Life & Casualty Company         141,600         \$3,264,220         \$3,929,400           Travelers Corporation         130,900         2,654,278         3,583,388           Total Financial Services         \$5,918,498         \$7,512,788           Basic Industries         \$10,040,595         \$12,732,788           Basic Industries         \$10,040,595         \$12,732,788           Basic Industries         \$10,040,595         \$12,732,788           Basic Industries         \$10,040,595         \$12,732,788           Basic Industries         \$1,000         \$2,516,022         \$1,947,563           Dow Chemical Company         70,500         \$2,516,022         \$1,947,563           Dow Chemical Company         81,000         2,799,216				
Description   Total Corporation   Total Consumer Products & Services   \$80,982,616   \$79,513,826   Financial Services   \$80,982,616   \$79,513,826   Financial Services   \$80,982,616   \$79,513,826   Financial Services   \$80,982,616   \$79,513,826   \$80,982,616   \$79,513,826   \$80,982,616   \$79,513,826   \$80,982,616   \$79,513,826   \$80,982,616   \$79,513,826   \$80,982,616   \$79,513,826   \$80,982,616   \$79,513,826   \$80,982,616   \$79,513,826   \$80,982,616   \$79,513,826   \$80,982,616   \$79,520,000   \$80,992,992,992,992,992,992,992,992,992,99				
Total Consumer Products & Services   \$80,982,616   \$79,513,826   Financial Services   Finan	Other		\$11,183,635	\$11,099,388
Financial Services           Banking & Credit           American Express Company         120,000.         \$ 4,122,097.         \$ 5,220,000           Insurance         441,600.         \$ 3,264,220.         \$ 3,929,400           Travelers Corporation.         130,900.         2,654,278.         3,583,388           Total Financial Services.         \$ 10,040,595.         \$12,732,788           Basic Industries         \$ 10,040,595.         \$12,732,788           Chemicals         American Cyanamid Company         70,500.         \$ 2,516,022.         \$ 1,947,563           Dow Chemical Company         81,000.         2,799,216.         7,269,750           Hercules Incorporated.         88,000.         2,184,149.         2,816,000           Nalco Chemical Company         97,200.         2,321,362.         3,183,300           Electrical Equipment         9,820,749.         \$15,216,613           Electrical Equipment         9,820,749.         \$5,699,288           Machinery         5,000.         \$ 3,507,378.         \$ 3,678,125           Ingersoll-Rand Company.         55,000.         \$ 3,507,378.         \$ 3,678,125           Ingersoll-Rand Company.         68,400.         4,479,687.         5,660,100           Oll & Gas	Zenith Radio Corporation	18,400	. \$ 1,006,817.	\$ 519,800
Banking & Credit         American Express Company         120,000         \$ 4,122,097         \$ 5,220,000           Insurance         Aetna Life & Casualty Company         141,600         \$ 3,264,220         \$ 3,929,400           Travelers Corporation         130,900         2,654,278         3,583,388           \$ 5,918,498         \$ 7,512,788           Basic Industries           Chemicals           American Cyanamid Company         70,500         \$ 2,516,022         \$ 1,947,563           Dow Chemical Company         81,000         2,799,216         7,269,750           Hercules Incorporated         88,000         2,184,149         2,816,000           Nalco Chemical Company         97,200         2,321,362         3,183,300           Electrical Equipment         9,820,749         \$15,216,613           Electrical Equipment         68,400         \$ 5,815,896         \$ 5,699,288           Machinery         55,000         \$ 3,507,378         \$ 3,678,125           Ingersoll-Rand Company         68,400         4,479,687         5,660,100           Toll & Gas         \$ 7,987,065         \$ 9,338,225           Oil & Gas         \$ 2,516,002         \$ 3,391,759         \$ 4,236,500	Total Consumer Products & Services		. \$80,982,616.	\$79,513,826
American Express Company       120,000       \$ 4,122,097       \$ 5,220,000         Insurance       Insu				
Aetna Life & Casualty Company       141,600       \$ 3,264,220       \$ 3,929,400         Travelers Corporation       130,900       .2,654,278       .3,583,388         \$ 5,918,498       \$ 7,512,788         Basic Industries         Chemicals         American Cyanamid Company       70,500       \$ 2,516,022       \$ 1,947,563         Dow Chemical Company       81,000       2,799,216       7,269,750         Hercules Incorporated       88,000       2,184,149       .2,816,000         Nalco Chemical Company       97,200       2,321,362       .3,183,300         Electrical Equipment         General Electric Company       108,300       \$ 5,815,896       \$ 5,699,288         Machinery       55,000       \$ 3,507,378       \$ 3,678,125         Ingersoll-Rand Company       55,000       \$ 3,507,378       \$ 3,678,125         Ingersoll-Rand Company       68,400       .4,479,687       5,660,100         \$ 7,987,065       \$ 9,338,225         Oil & Gas         Exxon Corporation       45,800       \$ 3,391,759       \$ 4,236,500		120,000	. \$ 4,122,097.	\$ 5,220,000
Travelers Corporation       130,900       2,654,278       3,583,388         \$ 5,918,498       \$ 7,512,788         Total Financial Services       \$10,040,595       \$12,732,788         Basic Industries         Chemicals         American Cyanamid Company       70,500       \$ 2,516,022       \$ 1,947,563         Dow Chemical Company       81,000       2,799,216       7,269,750         Hercules Incorporated       88,000       2,184,149       2,816,000         Nalco Chemical Company       97,200       2,321,362       3,183,300         Electrical Equipment         General Electric Company       108,300       \$ 5,815,896       \$ 5,699,288         Machinery       20       \$ 3,507,378       \$ 3,678,125         Ingersoll-Rand Company       68,400       4,479,687       5,660,100         Oll & Gas       \$ 7,987,065       \$ 9,338,225         Exxon Corporation       45,800       \$ 3,391,759       \$ 4,236,500				
\$ 5,918,498         \$ 7,512,788           Basic Industries           Chemicals           American Cyanamid Company         70,500         \$ 2,516,022         \$ 1,947,563           Dow Chemical Company         81,000         2,799,216         7,269,750           Hercules Incorporated         88,000         2,184,149         2,816,000           Nalco Chemical Company         97,200         2,321,362         3,183,300           ** 9,820,749         \$15,216,613           ** Electrical Equipment         **         **         \$ 5,699,288           ** Machinery         **         **         **         \$ 3,507,378         **         \$ 3,678,125         **           Ingersoll-Rand Company         55,000         **         3,507,378         **         3,660,100         **         **         7,987,065         **         9,338,225         **         **         **         **         7,987,065         **         9,338,225         ** <td< td=""><td></td><td></td><td></td><td></td></td<>				
Total Financial Services   \$10,040,595   \$12,732,788   Basic Industries	Travelers Corporation	130,900		
Basic Industries         Chemicals         American Cyanamid Company       70,500       \$ 2,516,022       \$ 1,947,563         Dow Chemical Company       81,000       2,799,216       7,269,750         Hercules Incorporated       88,000       2,184,149       2,816,000         Nalco Chemical Company       97,200       2,321,362       3,183,300         Electrical Equipment       \$ 9,820,749       \$15,216,613         Electrical Electric Company       108,300       \$ 5,815,896       \$ 5,699,288         Machinery       Caterpillar Tractor Company       55,000       \$ 3,507,378       \$ 3,678,125         Ingersoll-Rand Company       68,400       4,479,687       .5,660,100         \$ 7,987,065       \$ 9,338,225         Oil & Gas         Exxon Corporation       45,800       \$ 3,391,759       \$ 4,236,500				
American Cyanamid Company       70,500       \$ 2,516,022       \$ 1,947,563         Dow Chemical Company       81,000       2,799,216       7,269,750         Hercules Incorporated       88,000       2,184,149       2,816,000         Nalco Chemical Company       97,200       2,321,362       3,183,300         **Electrical Equipment**       **General Electric Company*       \$ 5,815,896       \$ 5,699,288         **Machinery**       **Caterpillar Tractor Company*       \$ 55,000       \$ 3,507,378       \$ 3,678,125         **Ingersoll-Rand Company**       \$ 68,400       4,479,687       5,660,100         *** 7,987,065       \$ 9,338,225         *** Oil & Gas***         *** Exxon Corporation**       45,800       \$ 3,391,759       \$ 4,236,500			. \$10,040,595	\$12,732,788
Dow Chemical Company       81,000       2,799,216       7,269,750         Hercules Incorporated       88,000       2,184,149       2,816,000         Nalco Chemical Company       97,200       2,321,362       3,183,300         \$ 9,820,749       \$15,216,613         Electrical Equipment         General Electric Company       108,300       \$5,815,896       \$5,699,288         Machinery         Caterpillar Tractor Company       55,000       \$3,507,378       \$3,678,125         Ingersoll-Rand Company       68,400       4,479,687       5,660,100         \$ 7,987,065       \$9,338,225         Oil & Gas         Exxon Corporation       45,800       \$3,391,759       \$4,236,500				
Hercules Incorporated 88,000 2,184,149 2,816,000 Nalco Chemical Company 97,200 2,321,362 3,183,300 \$ 9,820,749 \$15,216,613    Electrical Equipment General Electric Company 108,300 \$ 5,815,896 \$ 5,699,288    Machinery Caterpillar Tractor Company 55,000 \$ 3,507,378 \$ 3,678,125   Ingersoll-Rand Company 68,400 4,479,687 5,660,100   \$ 7,987,065 \$ 9,338,225    Oil & Gas   Exxon Corporation 45,800 \$ 3,391,759 \$ 4,236,500				
Nalco Chemical Company       97,200       2,321,362       3,183,300         \$ 9,820,749       \$15,216,613         Electrical Equipment       108,300       \$ 5,815,896       \$ 5,699,288         Machinery       States and Company       \$ 3,507,378       \$ 3,678,125         Ingersoll-Rand Company       \$ 68,400       4,479,687       5,660,100         \$ 7,987,065       \$ 9,338,225         Oil & Gas       Exxon Corporation       \$ 45,800       \$ 3,391,759       \$ 4,236,500				
## Substituting Substitution   ## Substituting Substituti				
Electrical Equipment         General Electric Company       108,300.       \$ 5,815,896.       \$ 5,699,288         Machinery         Caterpillar Tractor Company       55,000.       \$ 3,507,378.       \$ 3,678,125         Ingersoll-Rand Company.       68,400.       4,479,687.       5,660,100         \$ 7,987,065.       \$ 9,338,225         Oil & Gas         Exxon Corporation.       45,800.       \$ 3,391,759.       \$ 4,236,500	Naico Criemical Company			
General Electric Company       108,300.       \$ 5,815,896.       \$ 5,699,288         Machinery       55,000.       \$ 3,507,378.       \$ 3,678,125         Ingersoll-Rand Company.       68,400.       4,479,687.       5,660,100         \$ 7,987,065.       \$ 9,338,225         Oil & Gas         Exxon Corporation.       45,800.       \$ 3,391,759.       \$ 4,236,500	Electrical Equipment		\$ 9,820,749	\$15,216,613
Caterpillar Tractor Company       55,000       \$ 3,507,378       \$ 3,678,125         Ingersoll-Rand Company       68,400       4,479,687       5,660,100         \$ 7,987,065       \$ 9,338,225         Oil & Gas         Exxon Corporation       45,800       \$ 3,391,759       \$ 4,236,500	General Electric Company	108,300	. \$ 5,815,896.	\$ 5,699,288
Ingersoll-Rand Company		55 000	¢ 2 507 270	<b>₱</b> 0 670 105
\$ 7,987,065       \$ 9,338,225         Oil & Gas       Exxon Corporation       4,236,500				
Oil & Gas           Exxon Corporation         45,800         3,391,759         4,236,500	ga.ca	50,400		
Exxon Corporation 45,800 \$ 3,391,759 \$ 4,236,500	Oil & Gas		Ψ 1,901,000	φ 3,330,223
		45,800	. \$ 3,391,759	\$ 4,236,500

	Shares Held	Cost	June 30, 1975
Panhandle Eastern Pipeline Company	82,500	2,891,750.	2,670,938
Phillips Petroleum Company	69,000	3,028,501.	4,105,500
Standard Oil Company of Indiana	40,000	1,657,238.	1,975,000
Standard Oil Company of Ohio	66,500	3,485,862.	5,087,250
		\$16,355,009	\$21,136,251
Oil Services			
Halliburton Company	26,500	\$ 3,164,912.	\$ 4,968,750
Total Basic Industries		\$43,143,631.	\$56,359,127
Public Utilities			
Electric & Gas			
Consumers Power Company	4,700	. \$ 211,031.	\$ 84,600
Florida Power & Light Company			
Gulf States Utilities Company			
Illinois Power Company			
Middle South Utilities Company			
Northern Indiana Public Service Company			
Public Service Company of Colorado			
Tampa Electric Company			
Texas Utilities Company	46,600		
		\$ 8,794,125	\$ 6,120,538
Telephone			
American Telephone & Telegraph Company	31,300	\$ 1,571,644.	\$ 1,592,388
Total Public Utilities			
Total Common Stocks		. \$152,457,495.	\$162,506,330

## **Summary**

	Cost	Market Value June 30, 1975
Short Term Investments	\$ 41,128,266	\$ 41,128,266
Fixed Income Securities	747,736,178	651,412,576
Convertible Securities	1,000,000	850,000
Preferred Stock	500,000	208,750
Common Stocks	152,457,495	162,506,330
Total Investment Portfolio	\$942,821,939	\$856,105,922

#### **Becker Performance Evaluation**

A. G. Becker & Company is the largest and a highly respected portfolio evaluation service in the United States and has evaluated PERA fund's performance since 1969.

A summary of the PERA fund's performance results, along with a brief description of issue to be considered in interpreting the results follow. Since the purpose of the summary is to provide an overview, the reader is cautioned against forming conclusions that may be premature. A number of important details of performance evaluation are not addressed here.

These five exhibits are reprinted from the PERA report; together, they provide a profile of the PERA fund's performance.

- A. Deployment of Assets. In concise form, this exhibit shows the dollar value of each investment category of the PERA fund at the end of the last fiscal year, as well as the percent of the fund invested in that category. The policy decision to determine the fund's commitment to equities also is addressed here. A greater commitment to equity investments can offer the fund a potentially higher return. The reader should keep in mind, however, that such an investment would be subject to characteristic fluctuations in the equities market.
- B. Total Fund Cumulative Annual Rate of Return. This exhibit shows how the PERA fund performed over multi-year periods compared with other funds of similar asset size. The boxes on the graph represent the range of performance results earned by all funds in the group. The PERA fund is highlighted by a diamond and the line connecting the diamonds illustrates the trend of the fund's performance. The longest time period, 1965-1975, is displayed at the left. At the right, the reader can see performance results for last year only. The fund's return is tabulated under the graph, along with a segmentation of the group's results. Percent rank indicates what proportion of the group outperformed the fund; a low percent indicates a relatively higher return. With this exhibit, the reader can choose a time period of particular in-

terest and examine the return the PERA fund earned for that period. In the past, a market cycle has generally covered a four-year period. For any time period one chooses to examine, the median serves as an effective standard for determining what a "reasonable" return for that period would have been. (The median is that return which outranked 50 percent of the funds in the group and which was outranked by 50 percent of the funds.)

C. Total Fund Annual Rate of Return. The main purpose of this exhibit is to show which years have had the greatest impact on the multi-year performance of the PERA fund. Another purpose for displaying returns for individual years is to demonstrate how different securities markets affect fund performance. The variation of the median can be explained, in part, by rising and falling securities markets.

#### D. Equities Cumulative Annual Rate of Return and

E. Fixed Income Cumulative Annual Rate of Return. These exhibits show how the equity and debt portions of the PERA fund performed over multi-year periods. Since the fund's total return is comprised of equity and fixed income rates of return, both have been included so that one can see the impact of their return on the entire fund's performance.

This summary should be regarded only as an introduction to evaluating the PERA fund's performance results. Nevertheless, it is hoped that this brief overview will be of some assistance.

**Definitions:** Percent Rank refers to the percent of funds with assets in excess of 50 million dollars evaluated by A. G. Becker which outperformed PERA. The number of funds evaluated as of June 30, 1975, in this category was over 600.

Population Percentile refers to the percent of total number of funds evaluated by A. G. Becker which outperformed PERA regardless of size. The number of funds evaluated as of June 30, 1975, in this category was about 3,300.

# DEPLOYMENT OF ASSETS JUNE 30 ,1975 W1427 (IN THOUSANDS AT MARKET)

EQUITY ASSETS \$162.715 19.0 %

TOTAL FUND ASSETS \$858,141

FIXED INCOME
ASSETS
\$693.390
80.8 %

LONG TERM

\$562.734

65.6 %

SHORT TERM

\$41.128

4.8 %

PRIVATE PLACEMENTS

\$88.678

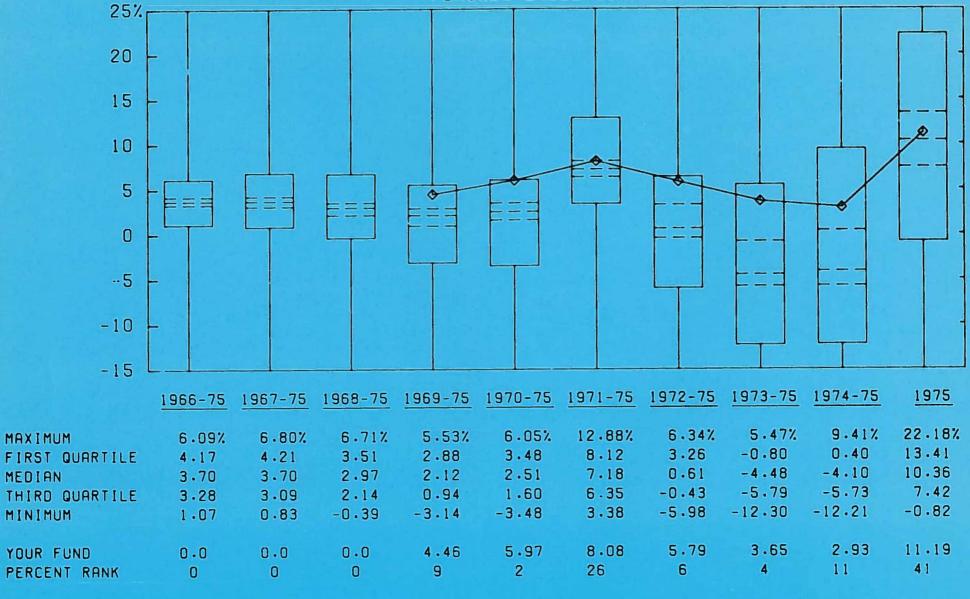
10.3 %

CONVERTIBLES

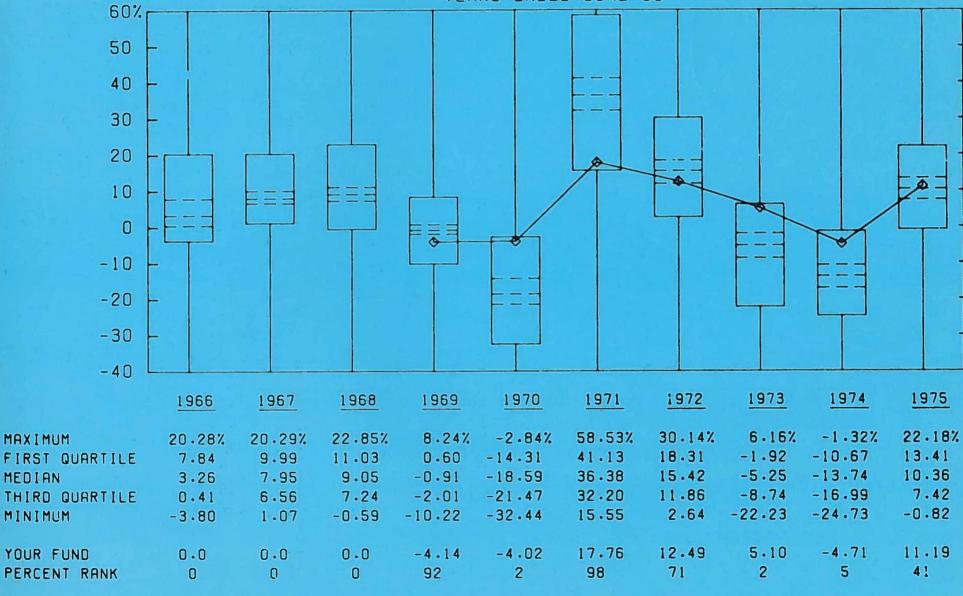
\$850

0.1 %

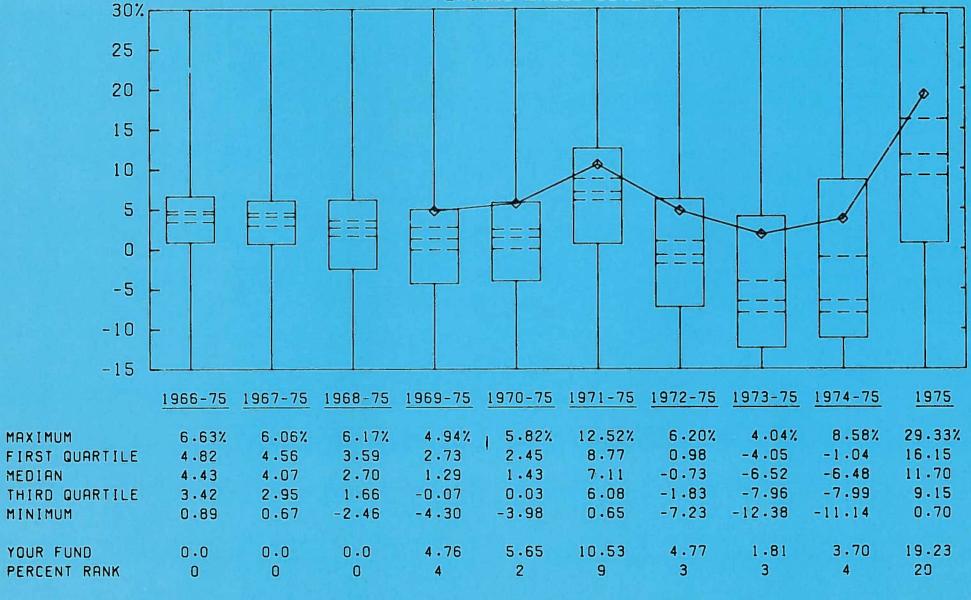
# TOTAL FUND CUMULATIVE ANNUAL RATE OF RETURN PERIODS ENDED JUNE 30



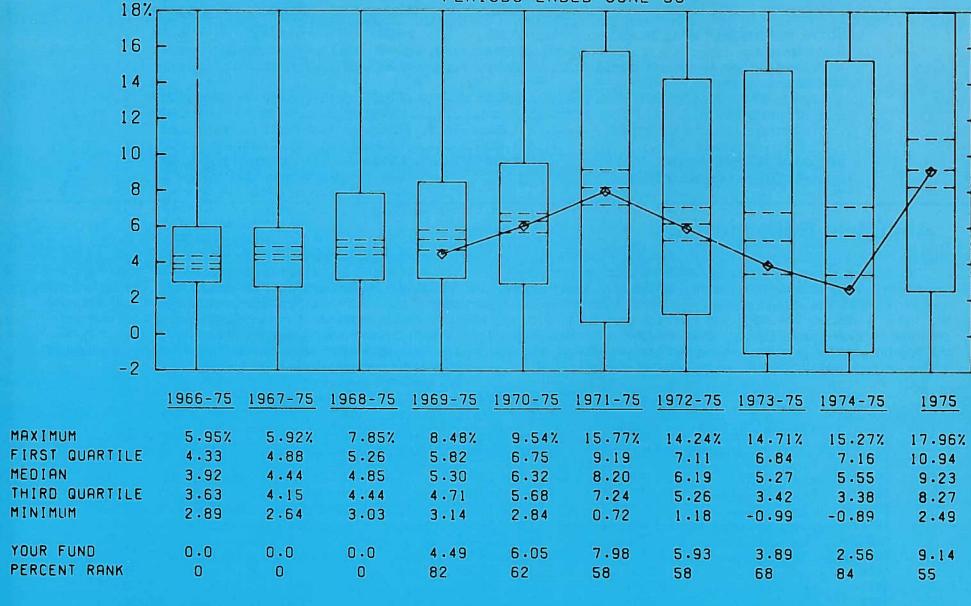
#### TOTAL FUND ANNUAL RATE OF RETURN YEARS ENDED JUNE 30



EQUITIES
CUMULATIVE ANNUAL RATE OF RETURN
PERIODS ENDED JUNE 30



## FIXED INCOME CUMULATIVE ANNUAL RATE OF RETURN PERIODS ENDED JUNE 30



#### **Membership Statistics**

	Consolidated Totals	State Division	School Division	Municipal Division
TOTAL MEMBERSHIP JUNE 30, 1975	97,065	39,783	51,813	5,469
Active Members				
Annuitants and Survivor Benefit Members.				
New Members Accepted				
July 1, 1974 to June 30, 1975		7,268	8,950	1,328
Less: Members Deceased				
Members' Accounts Withdrawn				
Total Withdrawals				
NET GAIN IN MEMBERSHIP	•			, ,
July 1, 1974 to June 30, 1975		•	,	

#### **Annuitant Rolls Increase**

The number of persons receiving retirement annuities has grown steadily in relation to active membership, as shown in the table below. Since PERA has not yet reached maturity as a retirement plan, this trend is natural. The trend will continue, and the annuitants on rolls will increase rapidly, until members enrolled near the beginning of the plan reach retirement age and attrition begins among the annuitants, a relatively young group at present.

The level-cost financing principle assures that deduction rates will not have to be raised to meet the benefit load. The current percentages of pay will be sufficient to meet the increasing annuity payroll, if the benefit provisions contained in state law are not changed.

The steep growth in the dollar amount of the annuitant payroll is shown in the right-hand column of the table.

Year	Number of retired members on 6/30	Number of active members on 6/30	Retired members as %of active members on 6/30	
1940			2.5%	\$ 72,588
1945			3.1	137,442
1950			2.4	237,866
1955			3.5	745,679
1960			5.4	
1965			7.3	5,486,225
1970			9.6	12,366,658
1971			10.0	14,385,068
1972			10.9	17,208,013
1973			11.9	21,297,570
1974			12.9	26,740,570
1975	11,650	84,781.	13.7	32,242,456

#### **Retirement Statistics:**

Retirement annuities have been approved by the retirement board payable to retired members during the fiscal year as follows:

20 or more years service at age 55 (Patrol, Game & Fish)	payazio to tomos momono dalinig and neodi year as tenente		School	
35 or more years service at any age				
30 or more years service at age 55. 25. 25. 20 or more years service at age 60. 153. 180. 13	35 or more years service at age 55		1	
20 or more years service at age 60	35 or more years service at any age	2		
5 or more years service at age 65 (Fractional)	30 or more years service at age 55	25		
General disability after 5 years of service	20 or more years service at age 60	153	180	13
Termination of service: Retained membership (Sec. 9)	5 or more years service at age 65 (Fractional)	315	212	19
Termination of service: Retained membership (Sec. 9)	General disability after 5 years of service	126	82	12
Survivor Benefits: Automatic	Termination of service: Retained membership (Sec. 9)	15	16	
20 or more years service at age 55 (reduced)	Survivor Benefits: Automatic	1	1	
5 or more years service at age 60 (reduced)       105       109       7         TOTAL RETIRED DURING FISCAL YEAR       790       679       56         Returned to rolls from suspension       2          Total number receiving retirement annuities 6/30/1974       5,105       4,902       401         Total number receiving retirement annuities during fiscal year       5,895       5,584       457         Co-Beneficiaries continued upon the death of annuitant       49       24       4         Less: Retired members deceased during fiscal year       199       141       13         Annuities temporarily suspended this year       4       5         TOTAL NUMBER RECEIVING RETIREMENT ANNUITIES 6/30/1975       5,741       5,461       448         Average monthly rate 6/30/1975       \$ 229       \$ 220       \$ 203         Total paid in annuities 7/1/1974 to 6/30/1975 (12 months)       \$16,086,816       \$15,057,119       \$1,098,521         Average monthly rate for annuitants retired during year       \$ 301       \$ 296       \$ 278         Survivor Benefits 6/30/1975       342       232       60         Total Survivor Benefits 6/30/1975       342       232       60         Total paid in Survivor Benefits 7/1/1974 to 6/30/1975 (12 months)       766,009       \$ 516,60	Deferred (Age 65)	23	49	5
TOTAL RETIRED DURING FISCAL YEAR       790       679       56         Returned to rolls from suspension       2          Total number receiving retirement annuities 6/30/1974       5,105       4,902       .401         Total number receiving retirement annuities during fiscal year       5,895       5,584       .457         Co-Beneficiaries continued upon the death of annuitant       49       24       .4         Less: Retired members deceased during fiscal year       199       .141       .13         Annuities temporarily suspended this year       4       5         TOTAL NUMBER RECEIVING RETIREMENT ANNUITIES 6/30/1975       5,741       5,461       .448         Average monthly rate 6/30/1975       \$ 229       \$ 220       \$ 203         Total paid in annuities 7/1/1974 to 6/30/1975 (12 months)       \$ 16,086,816       \$15,057,119       \$1,098,521         Average monthly rate for annuitants retired during year       \$ 301       \$ 296       \$ 278         Survivor Benefits added to rolls during fiscal year       .57       .36       .10         Total Survivor Benefits 6/30/1975       .342       .232       .60         Total paid in Survivor Benefits 7/1/1974 to 6/30/1975 (12 months)       \$ 766,009       \$ 516,603       \$ 115,777         Retirement annuities Deferred (Futu				
Returned to rolls from suspension       2         Total number receiving retirement annuities 6/30/1974       5,105       4,902       401         Total number receiving retirement annuities during fiscal year       5,895       5,584       457         Co-Beneficiaries continued upon the death of annuitant       49       24       4         Less: Retired members deceased during fiscal year       199       141       13         Annuities temporarily suspended this year       4       5         TOTAL NUMBER RECEIVING RETIREMENT ANNUITIES 6/30/1975       5,741       5,461       448         Average monthly rate 6/30/1975       \$ 229       \$ 220       \$ 203         Total paid in annuities 7/1/1974 to 6/30/1975 (12 months)       \$16,086,816       \$15,057,119       \$1,098,521         Average monthly rate for annuitants retired during year       \$ 301       \$ 296       \$ 278         Survivor Benefits added to rolls during fiscal year       57       36       10         Total Survivor Benefits 6/30/1975       342       232       60         Total paid in Survivor Benefits 7/1/1974 to 6/30/1975 (12 months)       766,009       \$ 516,603       \$ 115,777         Retirement annuities Deferred (Future at age 65)       437       753       31         Total future liability (annually)       \$ 92				
Total number receiving retirement annuities 6/30/1974. 5,105 4,902. 401 Total number receiving retirement annuities during fiscal year 5,895 5,584 457 Co-Beneficiaries continued upon the death of annuitant 49 24 4 Less: Retired members deceased during fiscal year 199 141 13 Annuities temporarily suspended this year 4 5  TOTAL NUMBER RECEIVING RETIREMENT ANNUITIES 6/30/1975 5,741 5,461 448 Average monthly rate 6/30/1975 \$ 229 \$ 220 \$ 203 Total paid in annuities 7/1/1974 to 6/30/1975 (12 months) \$16,086,816 \$15,057,119 \$1,098,521 Average monthly rate for annuitants retired during year \$ 301 \$ 296 \$ 278 Survivor Benefits added to rolls during fiscal year 57 36 10 Total Survivor Benefits 6/30/1975 342 232 60 Total paid in Survivor Benefits 7/1/1974 to 6/30/1975 (12 months) \$ 766,009 \$ 516,603 \$ 115,777 Retirement annuities Deferred (Future at age 65) 437 753 31 Total future liability (annually) \$ 929,485 \$ 1,275,246 \$ 55,947 Survivor Benefits (Future) 53 34 9				
Total number receiving retirement annuities during fiscal year 5,895 5,584 457  Co-Beneficiaries continued upon the death of annuitant 49 24 4  Less: Retired members deceased during fiscal year 199 141 13  Annuities temporarily suspended this year 4 5  TOTAL NUMBER RECEIVING RETIREMENT ANNUITIES 6/30/1975 5,741 5,461 448  Average monthly rate 6/30/1975 \$ 229 \$ 220 \$ 203  Total paid in annuities 7/1/1974 to 6/30/1975 (12 months) \$16,086,816 \$15,057,119 \$1,098,521  Average monthly rate for annuitants retired during year \$ 301 \$ 296 \$ 278  Survivor Benefits added to rolls during fiscal year 57 36 10  Total Survivor Benefits 6/30/1975 342 232 60  Total paid in Survivor Benefits 7/1/1974 to 6/30/1975 (12 months) \$ 766,009 \$ 516,603 \$ 115,777  Retirement annuities Deferred (Future at age 65) 437 753 31  Total future liability (annually) \$ 929,485 \$ 1,275,246 \$ 55,947  Survivor Benefits (Future) 53 34 9	Returned to rolls from suspension		2	
Co-Beneficiaries continued upon the death of annuitant				
Less: Retired members deceased during fiscal year	Total number receiving retirement annuities during fiscal year	5,895	5,584	457
Annuities temporarily suspended this year	Co-Beneficiaries continued upon the death of annuitant	49	24	4
TOTAL NUMBER RECEIVING RETIREMENT ANNUITIES 6/30/1975       5,741       5,461       448         Average monthly rate 6/30/1975       \$ 229       \$ 220       \$ 203         Total paid in annuities 7/1/1974 to 6/30/1975 (12 months)       \$16,086,816       \$15,057,119       \$1,098,521         Average monthly rate for annuitants retired during year       \$ 301       \$ 296       \$ 278         Survivor Benefits added to rolls during fiscal year       .57       .36       .10         Total Survivor Benefits 6/30/1975       .342       .232       .60         Total paid in Survivor Benefits 7/1/1974 to 6/30/1975 (12 months)       \$ 766,009       \$ 516,603       \$ 115,777         Retirement annuities Deferred (Future at age 65)       .437       .753       .31         Total future liability (annually)       \$ 929,485       \$ 1,275,246       \$ 55,947         Survivor Benefits (Future)       .53       .34       .9	Less: Retired members deceased during fiscal year	199	141	13
Average monthly rate 6/30/1975	Annuities temporarily suspended this year	4	5	
Total paid in annuities 7/1/1974 to 6/30/1975 (12 months)       \$16,086,816       \$15,057,119       \$1,098,521         Average monthly rate for annuitants retired during year       \$301       \$296       \$278         Survivor Benefits added to rolls during fiscal year       57       36       10         Total Survivor Benefits 6/30/1975       342       232       60         Total paid in Survivor Benefits 7/1/1974 to 6/30/1975 (12 months)       \$766,009       \$516,603       \$115,777         Retirement annuities Deferred (Future at age 65)       437       753       31         Total future liability (annually)       \$929,485       \$1,275,246       \$55,947         Survivor Benefits (Future)       53       34       9				
Average monthly rate for annuitants retired during year       \$ 301\$       \$ 296\$       \$ 278         Survivor Benefits added to rolls during fiscal year       .5736	Average monthly rate 6/30/1975\$	229\$	220	. \$ 203
Survivor Benefits added to rolls during fiscal year       57       36       10         Total Survivor Benefits 6/30/1975       342       232       60         Total paid in Survivor Benefits 7/1/1974 to 6/30/1975 (12 months)       766,009       516,603       115,777         Retirement annuities Deferred (Future at age 65)       437       753       31         Total future liability (annually)       \$929,485       1,275,246       55,947         Survivor Benefits (Future)       53       34       9	Total paid in annuities 7/1/1974 to 6/30/1975 (12 months)\$1	6,086,816\$	15,057,119	. \$1,098,521
Total Survivor Benefits 6/30/1975       342       232       60         Total paid in Survivor Benefits 7/1/1974 to 6/30/1975 (12 months)       766,009       516,603       115,777         Retirement annuities Deferred (Future at age 65)       437       753       31         Total future liability (annually)       929,485       1,275,246       55,947         Survivor Benefits (Future)       53       34       9	Average monthly rate for annuitants retired during year\$	301\$	296	. \$ 278
Total paid in Survivor Benefits 7/1/1974 to 6/30/1975 (12 months)       766,009\$ 516,603\$ 115,777         Retirement annuities Deferred (Future at age 65)	Survivor Benefits added to rolls during fiscal year	57	36	10
Retirement annuities Deferred (Future at age 65)				
Total future liability (annually)	Total paid in Survivor Benefits 7/1/1974 to 6/30/1975 (12 months) \$	766,009\$	516,603	. \$ 115,777
Survivor Benefits (Future)	Retirement annuities Deferred (Future at age 65)	437	753	31
# 00 004				
Total future liability (annually)	Total future liability (annually)\$	83,034\$	47,884	. \$ 13,581

#### **State Division**

## Active Members in Valuation By Attained Age Groups & Years of Credited Service - 12-31-74

Active members included in the STATE DIVISION\* valuation totaled 31,162, involving monthly salaries totaling \$29,159,990 (\$349,919,880 annually).

Attained		N1			0	W1 O			
Age	0.4			licated Yea				Tatala	Monthly
Groups	0-4	5-9	10-14	15-19	20-24	25-29	30 & Up	Totals	Salaries
Under 20									· · · · · · · · · · · · · · · · · · ·
									1,543,794
									3,732,443
									3,883,198
									3,455,927
									3,483,085
									3,766,042
									3,736,414
									3,169,596
									494,254
									442,238
									363,691
									329,439
									288,159
									204,797
								61	,
								36	
									29,408
69									
									3,370
									4,455
									900
									1,758
									593
									866
	_								520
	16,420								\$29,159,990

\*This does not include figures as of December 31, 1974, for State Patrolmen and certain members of the Division of Wildlife, who have separate plans and rates. If both groups were included, the State Division would have totaled 31,718, involving salaries totaling \$29,734,898 (\$356,818,776 annually).

The median attained age for regular State Division members was 40.4 years, and the median service was 4.7 years. This assumes even distribution throughout the median interval.

#### **School Division**

## Active Members in Valuation By Attained Age Groups & Years of Credited Service - 12-31-74

Active members included in the SCHOOL DIVISION valuation totaled 43,500, involving monthly salaries totaling \$33,584,887 (\$403,018,644 annually).

Attained									
Age				icated Yea	rs of Cred	lited Servi	ce		Monthly
Groups	0-4	5-9	10-14	15-19	20-24	25-29	30 & Up	Totals	Salaries
Under 20	1/0							140	\$ 59,715
20-24									
25-29									
30-34									
35-39									
40-44									
45-49									
50-54									
									2,374,197
60									
									380,916
62	70	94	97	89	62	19	5	436	359,251
63	74	64	63	91	50	11	2	355	287,301
64	41	58	64	95	35	13	1	307	254,725
65	25	34	53	58	28	15	6	219	187,280
									28,358
								35	
									13,038
69									
									5,125
								7	
									2,283
73									
74									
75 <u>.</u>									
Totals	24,473	.9,445	4,992	3,028	1,253	262	47	43,500	\$33,584,887

The median attained age for School Division members was 38.0 years, and the median service was 4.4 years. This assumes even distribution throughout the median interval.

## **Municipal Division**

## Active Members in Valuation By Attained Age Groups & Years of Credited Service - 12-31-74

Active members included in the MUNICIPAL DIVISION valuation totaled 4,576, involving monthly salaries totaling \$3,593,251 (\$43,119,012 annually).

Attained			Numbo	r With Indi	aatad Vaa	ro of Cros	lited Service		Monthly
Age Groups	0-4	5-9	10-14	15-19	20-24	25-29		Totals	Salaries
Under 20	66							66	\$ 28,618
20-24									
25-29	. 835	85	4					924	685,833
30-34	. 458	140	30					628	528,312
35-39									
40-44									
45-49									
50-54									
55-59									
60									
61									
									42,147
63									
64									
									13,498
66	6	3	2		1	1 .		13	8,765
67		1	2			1 .		4	4,085
68	1	1	3					5	5,902
69	1		1	1				3	1,331
70	1	1	1					3	1,608
71 <u></u>	<u></u> <u>.</u>	<u> 2</u>	<u></u>	<u></u>	<u></u>	. <u></u> .	<u></u>	<u> 2</u>	<u> 725</u>
Totals	3,021	856	335	197	103	56 .	8	4,576	3,593,251

The median attained age for Municipal Division members was 35.9 years, and the median service was 3.8 years. This assumes even distribution throughout the median interval.

## **Judges Division**

## Active Members in Valuation By Attained Age Groups & Years of Credited Service - 12-31-74

Active members included in the JUDGES DIVISION valuation totaled 203, involving monthly salaries totaling \$381,774 (\$4,581,288 annually).

Attained									
Age		Num	ber With	Indicated	Years of C	redited S	ervice		Monthly
Groups	0-4	5-9	10-14	15-19	20-24	25-29	30 & Up	Totals	Salaries
25-29	1							1	\$ 833
30-34	5							5	6,760
35-39	10	6	1					17	26,966
40-44	9	3	4					16	· · · · · · · · · · · · · · · · · · ·
45-49	11	6	11					28	55,337
50-54	13	12	14						
55-59	9	5	16	1	3			34	
60	3	2	4	1				10	
61	2	3	3						19,842
62		2	2	1				5	The state of the s
63	3							4	
64	2	5						7	
65		2							
66	1		1	1		1 .			9,916
67	2	3	1						9,146
68		2				1.			5,499
69		2	1						3,124
70		1	2	1	1				7,790
71	<u></u>	· · · <u>· · · ·</u> · · · ·	· · · · <u>· · · ·</u> · · ·	<u></u>	<u></u>	<u> 1</u> .		<u>1</u>	<u> 2,333</u>
Totals	71	54	62	9	4	3.		203	\$381,774

The median attained age for Judges Division members was 54.3 years, and the median service was 7.8 years. This assumes even distribution throughout the median interval.

## **Principles**

#### Financial Principles and Operational Techniques of PERA

**Promises Made, and Eventually Paid.** As each year is completed, PERA in effect hands an "IOU" to each member then acquiring a year of service credit — the "IOU" says: "The Public Employees' Retirement Association of Colorado owes you one year's worth of retirement benefits, payments in cash commencing when you qualify for retirement."

The related key financial questions are:

Which generation of taxpayers contributes the money to cover the IOU?

The present taxpayers, who receive the benefit of the member's present year of service?

Or the future taxpayers, who happen to be in Colorado at the time the IOU becomes a cash demand?

The law governing PERA financing intends that this year's tax-payers contribute the money to cover the IOUs being handed out this year. By following this principle, the employer contribution rate will remain approximately level from generation to generation—our children and our grandchildren will contribute the same percents of active payroll we contribute now.

(There are systems which have a design for deferring contributions to future taxpayers, lured by a lower contribution rate now and putting aside the consequence that the contribution rate must then relentlessly grow much greater over decades of time — consume now, and let your children face your **financial pollution** after you retire.) See chart on next page.

An inevitable by-product of the level-cost design is the accumulation of reserve assets, for decades, and the income produced when the assets are invested. **Invested assets are a by-product and not the objective. Investment income becomes in effect the 3rd contributor** for benefits to employees, and is directly related to the contribution amounts required from employees and employers. Translated to actuarial terminology, this level-cost objective means that the contribution rates must total at least the following:

Current cost (the cost of members' service being rendered this year) . . . plus . . .

Interest on Unfunded Accrued Liabilities (unfunded accrued liabilities are the difference between: liabilities for members' service already rendered; and the accrued assets of PERA).

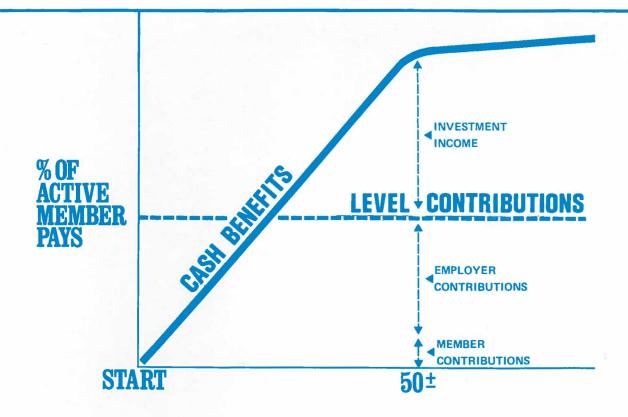
Computing Contributions to Support Fund Benefits. From a given schedule of benefits and from the employee data and asset data furnished him, the actuary determines the contribution rates to support the benefits, by means of an actuarial valuation and a funding method.

An actuarial valuation has a number of ingredients such as: the rate of investment income which plan assets will earn; the rates of withdrawal of active members who leave covered employment before qualifying for any monthly benefit; the rates of mortality; the rates of disability; the rates of salary increases; and the assumed age or ages at actual retirement.

In making an actuarial valuation the actuary must assume what the above rates will be, for the next year and for decades in the future. Only the subsequent actual experience of the plan can indicate the degree of accuracy of the assumptions.

Reconciling Differences Between Assumed Experience and Actual Experience. Once actual experience has occurred and been observed, it will not coincide exactly with assumed experience, regardless of the skill of the actuary and the millions of calculations he made. The future can be predicted with considerable but not 100 percent precision.

PERA copes with these continually changing differences by having annual actuarial valuations. Each actuarial valuation is a complete recalculation of assumed future experience, taking into account all past differences between assumed and actual experience. The result is **continuing adjustments in financial position.** 



#### **YEARS OF TIME**

Cash Benefits Line. This relentlessly increasing line is the fundamental reality of retirement plan financing. As the ratio of retired to active, working members rises, the benefits paid rise as a percent of payroll.

The line increases over time even if new benefits aren't added. It increases regardless of the financing method being followed.

Level Contribution Line. Determining the level contribution line requires detailed assumptions concerning experiences in future decades, including:

Rate of withdrawal of active members (turnover);

Rate of mortality;

Rate of disability;

Age at actual retirement;

Rate of pay increase;

Investment income;

Change in active member group size.

## Per Capita Reserves

#### Fiscal Years 1973-1975

		Present Retired Reserve		Retired Reserve
OTATE	June 30, 1973	\$30,203	\$3,128	\$1,404
STATE		30,933		
DIVISION		33,502		
SCHOO!	June 30, 1973	\$29,893	\$2,743	\$2,972
SCHOOL	June 30, 1974	30,228		3,530
DIVISION				
MUNICIPAL	June 30, 1973	\$25,442	\$2,084	\$1,980
MUNICIPAL DIVISION	June 30, 1974	27,854	2,256	2,192
		29,920		

The table above shows some important facts about the three main reserves in the PERA financial structure — reserves for presently retired, members' deposits, and the reserves for future retirees.

Using the State Division as an example on 6-30-75, if you divide the reserve established for those already receiving retirement annuities by the total number of those recipients, you end up with \$33,502 per retiree. If you divide the total individual deposits by the total active membership, the result is \$3,800 per active member. The reserve for future retired is used with active members' own deposits to finance the retirement of each retiring member. This reserve divided by the number of active members nets \$2,219 per member.

PERA annuities are fully funded. This means that once a member retires, there is enough money set aside to pay his annuity for the rest of his life without additional member or employer deductions. The Present Retired Reserve is the largest of the three on a per capita basis. Its growth in each Division from year to year indicates the higher retirement amounts being paid.

The member's personal deposits are only used for the member's own benefit or his survivor's benefit.

The Future Retired Reserve is a pooled fund containing employer deductions and interest within each Division. It helps fund benefits earned by active members over their careers. When an individual is granted a benefit at retirement, which is determined according to the provisions of state law, a portion of the Future Retired Reserve is combined with the member's deposits and placed in the Present Retired Reserve to pay his benefit.

NOTE: The figures presented above are per capita reserve figures based on the actuarial assumptions in effect on each date. Some of the figures presented in the table above are not identical to figures shown for the same items in last year's *Statistical Supplement*. The date used for that *Supplement* does not reflect the effect of the accounting entries which were made during the 1974-75 fiscal year.

## **Assumptions Used By Actuary**

(For State, School, and Municipal Divisions only)

- 1. The interest rate used in making the valuation was six percent per annum, compounded annually.
- 2. The mortality table, for post-retirement mortality, used in evaluating annuities to be paid, was the 1960 Group Annuity Mortality Table, set back no years for men and set back five years for women as shown below.

## Single Life Retirement Values Based on 1960 Group Annuity Mortality & 6% Interest

Sample Attained		Present Value of \$1.00 Monthly for Life		Present Value of \$1.00 Mo. the First Year Increasing \$.03 Yearly		Future Life Expectancy (Years)	
Ages	Men	Women	Men	Women	Men	Women	
40	\$172.11	\$179.59	\$229.21	\$243.31	35.48	40.21	
45	162.79	172.11	212.69	229.21	30.85	35.48	
50		162.79	194.33	212.69	26.44	30.85	
55		151.92	174.49	194.33	22.30	26.44	
60		139.60	153.11	174.49	18.43	22.30	
65		125.60	130.23	153.11	14.80	18.43	
70		109.70	107.39	130.23	11.58	14.80	
75		92.95	85.47	107.39	8.79	11.58	
80	60.20	75.97	66.11	85.47	6.54	8.79	
	47.51						

3. The salary scale, showing present salary assumed to result in a salary of \$1,000 at age 60.

Sample Ages	Present Salary Resulting in Salary of \$1,000 at Age 60			
20	\$ 138	40 45	435 557	
25	191	50	694	
30	255	55	843	
35	336	60	1,000	

4. The probabilities of age and service retirement for members eligible to retire. For State and Municipal Division members, eligibility for superannuation retirement was assumed to be age 55 and 30 years of service, or age 60 and 10 or more years of service. For School Division members, eligibility for superannuation retirement was assumed to be age 55 and 35 years of service, or age 60 with 10 or more years of service.

#### **Percent of Eligible Active Members**

Retirement Ages	Retiring Within Next Year — By	y Division	
	State	e Schoo	ol Municipal
55		6	610%
56			10
57		15	10
58		15	10
59		15	10
60		15	10
61			10
62			10
63		15	10
		25	15
65		60	40
66		30	30
67		40	40
68		50	50
69	90	60	90
70	100	100	100

5. The probabilities of separating from service due to death or withdrawal. For State and Municipal Division members, the probabilities of withdrawal are applicable to active members under age 40 or with less than 10 years of service. For members over age 40 with 10 or more years of accrued service, the probabilities of withdrawal reduce to 50 percent of the values shown in the State Division, and to 20 percent in the Municipal Division.

In the School Division the probabilities of withdrawal are applicable to active members with less than 10 years of service. For members with 10 or more years of accrued service, the probabilities of withdrawal reduce to 10 percent of the values shown.

Percent of Active Participants Separating Within Next Year					
	Sta		School	Mı	ınicipal
Sample Ages	Men	Women	Men Women	Men	Women
20	31.31%	38.33% .		31.31%.	38.33%
25	16.53	34.10 .	16.1130.81	16.53 .	34.10
			8.5814.31		
			6.0010.65		
			5.146.86		
			4.52 5.56		
			4.17 4.25		

<sup>6.</sup> The entry age normal cost method of valuation was used in determining superannuation annuity liabilities and normal cost.

#### **Actuarial Assumptions for Judges Division**

- 1. The Interest rate used in making the valuation was six percent per annum, compounded annually.
- 2. The mortality table, for post-retirement mortality, used in evaluating annuities to be paid, was the 1960 Group Annuity Mortality Table, set back no years for men and set back five years for women.

#### Single Life Retirement Values

#### Based on 1960 Group Annuity Mortality & 6% Interest

Sample Attained	Present Value \$1.00 Monthly for Life		
Ages	Men Women	Men Women	Men Women
40	\$172.11 \$179.59	\$200.66 \$211.45	35.48 40.21
45	162.79 172.11	187.74 200.66	30.85 35.48
		173.13 187.74	
55	139.60 151.92	157.05 173.13	22.30 26.44
60	125.60 139.60		18.43 22.30
80	60.20 75.97		6.54 8.79

<sup>7.</sup> In financing unfunded accrued liabilities, active member payroll was assumed to increase 3 percent a year.

3. The salary scale, showing present salary assumed to result in a salary of \$1,000 at age 65.

Sample	Present Salary  Resulting in	
Ages	Salary of \$1,000 at Age 65	45 479
25		50 597
30		55725
35		60 861
40		65 1,000

4. The probabilities of age and service retirement for members eligible to retire. Eligibility for superannuation retirement was assumed to be age 65 with 10 or more years of service.

Retirement Ages	Percent of Eligible Active Members Retiring Within Next Year	
		68
67	15	70 100

5. The probabilities of separating from service due to death or withdrawal. The probabilities of withdrawal are applicable to active members with accrued service less than 10 years. For members with 10 or more years of accrued service, the probabilities of withdrawal are zero.

Sample	Percent of Active Members Separating Within the Next Year			
Ages	Men	Women		
25	7.79%	7.78%		
30	7.31	7.29		
35	6.40	6.36		
40	5.33	5.27		
45	4.29	4.15		
50	3.14	2.88		
55	1.87	1.52		
60	1.48	1.02		
65	2.18	1.39		

- 6. The attained age normal cost method of valuation was used in determining superannuation annuity liabilities and normal cost.
- 7. In financing unfunded accrued liabilities, active member payroll was assumed to increase 3 percent a year.

## **Computed Employer Contribution Rate**

#### **Computed Employer Contribution Rate**

	Expressed a State		Active Member P Municipal	ayroll Judges
Contributions for				
Current Cost:				
Superannuation annuities	9.64%	.10.75%	9.81%	14.78%
Disability annuities	1.05	0.85	1.20	0.50
Survivor Annuities	0.60	. <u>.0.60</u>	<u>.0.80</u>	1.50
Total1	1.29	.12.20	11.81	16.78
Member current contributions				
(Future refunds) (				
Available for annuities	3.80	4.23	3.99	6.15
Employer Current Cost				
Unfunded Accrued Liabilities	3.16	4 . 13	2.04	1.37
(Amortization period) (41 years)	ears) (26	years)(	36 years) (18	3 years)
TOTAL COMPUTED EMPLOYER CONTRIBUTION RATE	0.65%	.12.10%	9.86%	.12.00%
STATUTORY RATE1	0.65%	12.10%	9.86%	.12.00%

