

### THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO

ACTUARIAL VALUATION JULY 1, 1995



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November 1, 1995

The Retirement Board State Teachers Retirement System of Ohio 275 East Broad Street Columbus, Ohio 43215

Ladies and Gentlemen:

This report presents the results of the annual actuarial valuation of the assets and liabilities of the State Teachers Retirement System of Ohio (STRS) as of July 1, 1995, prepared in accordance with Section 3307.20 of Chapter 3307 of the Ohio Revised Code. The valuation takes into account all of the promised benefits to which members are entitled, including pension and survivor benefits.

The valuation was based on the same actuarial assumptions and methods which were adopted by the Board for use in the July 1, 1993 valuation, including a valuation interest rate of  $7\frac{1}{3}$ % per annum compounded annually.

The valuation was also based on membership data which was reported to us by STRS. While we did not verify the data at its source, we did review it for reasonableness. The membership data was reported in a revised format from the Legacy computer system. The data was provided in more detail than provided in previous years and more accurately reflects the employment status of members as of the valuation date.

Currently, of the total contribution rate of 23.3% from employers and members, 2% is dedicated to the health care fund with 21.3% remaining for pension and survivor benefits. The valuation indicates that the contribution rate of 21.3% is sufficient to provide for the payment of the promised pension and survivor benefits, while reducing the funding period of the deficiency by 1.2 years from last year's funding period, (i.e., reduced from 30.5 years to 29.3 years).

The valuation indicates that for the fiscal year 1994-95 the actuarial experience of STRS was favorable and generated net actuarial gains of \$739 million. The Board elected to use \$42 million of the actuarial gain to fund the supplemental benefit payments to retirees to be made during December, 1995 and to transfer \$652 million to the health care stabilization fund. The remaining \$45 million reduced the funding period by .2 years.

Our report which follows describes the detailed results of the valuation as of July 1, 1995.

Respectfully submitted,

M. Michael I

Kim M. Nicholl, F.S.A. Consulting Actuary

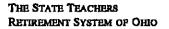
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#### THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO

### ACTUARIAL VALUATION JULY 1, 1995

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### Introduction

Presented in this report are the results of the actuarial valuation as of July 1, 1995 for the State Teachers Retirement System of Ohio.

The principal results include:

- The unfunded accrued liability funding period which is 29.3 years.
- The funded status of the plan determined as of July 1, 1995 based on the accrued liability and the market-related value of assets as of that date which is 78.6%
- The determination of the gain or loss as of July 1, 1995 which is a gain of \$739 million.
- Annual disclosure as of July 1, 1995 as required by Statement No. 5 of the Governmental Accounting Standards Board.

The valuation was completed based upon membership and financial data submitted by the Retirement System.

### **Changes Since Last Year**

#### Legislative and Administrative Changes

There were no legislative changes during the year which affect the funding of the System.

There was one administrative change that became effective with the valuation as of July 1, 1995. Membership data was reported in a revised format from the Legacy computer system and includes more detailed information than was provided in previous years. In addition, the new reporting format more accurately reflects membership status. In prior years, members who retired effective July 1 but whose benefit calculations were not completed until after July 1 were reported as active. With the data reporting change, all members who retire effective July 1 are reported as retired. As a result, the number of retirements reported this year is



greater than would be expected since many of the July 1, 1994 retirements and all of the July 1, 1995 retirements are first being reported as of July 1, 1995.

As a result of the accelerated reporting of retirements mentioned above, annualized salaries for members active as of July 1, 1995 is less than membership payroll on which contributions were collected during the fiscal year ended June 30, 1995. In order to accurately reflect membership payroll, instead of using annualized salaries, the accrued liability rate is determined using the total membership payroll on which contributions were collected for the year ended June 30, 1995.



### **Summary of Principal Results**

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Summarized below are the principal financial results for the State Teachers Retirement System of Ohio based upon the actuarial valuation as of July 1, 1995. Comparable results from the July 1, 1994 valuation are also shown.

Item	July 1, 1995	July 1, 1994
Membership Data		
Active Members		
<ul> <li>Number</li> </ul>	166,623	167,770
<ul> <li>Annualized Salaries</li> </ul>	\$ 6,110.2 Mil	\$ 5,986.0 Mil
<ul> <li>Average Pay</li> </ul>	\$ 36,670	\$ 35,680
<ul> <li>Membership Payroll</li> </ul>	\$ 6,327.0 Mil	\$ 5,986.0 Mil
Retirces and Beneficiaries		
▶ Number	83,136	77,405
<ul> <li>Annual Allowances</li> </ul>	\$ 1,434.0 Mil	\$ 1,230.7 Mil
<ul> <li>Average Benefit Payment</li> </ul>	\$ 17,249	\$ 15,899
Contribution Rates (as a Percentage of Payroll)		
Employer Contribution Rate:		
<ul> <li>Total Pension Contribution Rate</li> </ul>		
- Normal Rate	5.44%	5.45%
Accrued Liability Rate	6.56	6.55
<ul> <li>Health Care Contribution Rate</li> </ul>		2.00
► Total	14.00%	14.00%
Member Contribution Rate	<u> </u>	<u>_9.30</u>
► Total	23.30%	23.30%
Actuarial Funded Status		
Accrued Liability	\$ 39,987.2 Mil	\$ 36,871.8 Mil
<ul> <li>Valuation Assets</li> </ul>	(31,416.7)	(28.543.4)
<ul> <li>Unfunded Accrued Liability</li> </ul>	\$ 8,570.5	\$ 8,328.4
<ul> <li>Funded Ratio</li> </ul>	78.6%	77.4%
<ul> <li>Funding Period</li> </ul>	29.3 years	30.5 years
GASB No. 5 Disclosure		
<ul> <li>Pension Benefit Obligation</li> </ul>	\$ 36,112.3 Mil	\$ 34,481.5 Mil
<ul> <li>Valuation Assets (Excluding Health Care Reserve)</li> </ul>	(29,913.4)	(27,695.1)
<ul> <li>Unfunded Pension Benefit Obligation</li> </ul>	\$ 6,198.9	\$ 6,786.4
<ul> <li>Funded Ratio</li> </ul>	82.8%	80.3%



### **Five-Year History of Principal Financial Results**

#### Net Gain (Loss)

The results of the valuation as of July 1, 1995 determine the net gain or loss for the year ended June 30, 1995. The net gain is \$739 million. The Board elected to use \$42 million to fund the supplemental benefit payments to retirees to be made during December, 1995, transfer \$652 million to the health care stabilization fund and use the remaining \$45 million to reduce the funding period by .2 years.

The analysis of the net gain for fiscal year ended June 30, 1995 is shown in Table 6. The following table shows a five year history of the net gains or losses.

Net Gain or (Loss)
\$ 739
34
248
354
231

#### Five-Year History of Gains or (Losses) (\$ result reported in millions)

### **Funding Period**

The funding period is the number of years required to liquidate the unfunded accrued liability. The following table shows a five year history of the funding period along with the member and employer contribution rates:

Fiscal Year	Funding	Contribution Rate		
Ended June 30	Period	Member	Employer	
1995	29.3 years	9.30%	14.00%	
1994	30.5	9.30	14.00	
1993	31.5	9.25	14.00	
1992	32.5	9.25	14.00	
1991	33.5	9.25	14.00	

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO



### **Funded Ratio**

The System's funded status is measured by comparing the valuation assets with the accrued liability. The accrued liability is the present value of benefits accumulated to date under the System's funding method and reflects future pay increases for active employees.

On this basis, the System's funded ratio is 78.6% as of July 1, 1995. The funded ratio is based on a market-related value of assets of \$31.4 billion and an accrued liability of \$40.0 billion.

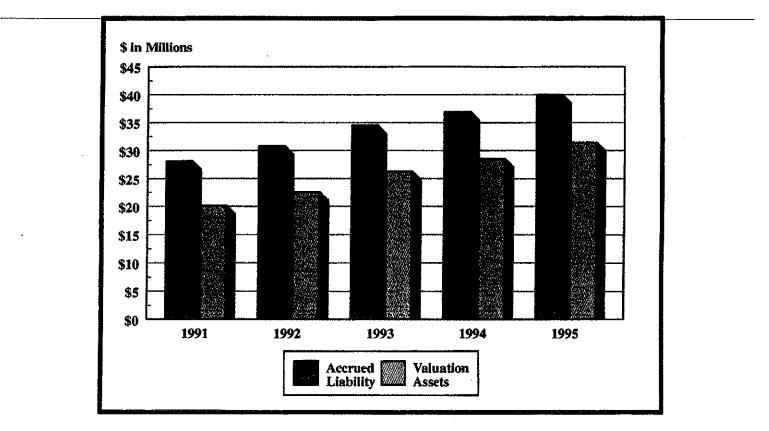
#### **Reasons for Change in the Funded Ratio**

The funded ratio increased from 77.4% as of July 1, 1994 to 78.6% as of July 1, 1995. The increase is due to the net effect of experience gains and losses.

### Five-Year History of Funded Ratio (\$ results reported in millions)

Valuation as of July 1	Accrued Liability	Valuation Assets	Unfunded Accruef Liability	Funded Ratio
1995	\$ 39,987.2	\$ 31,416.7	\$ 8,570.5	78.6%
1994	36,871.8	28,543.4	8,328.4	77.4
1993	34,488.9	26,259.4	8,229.5	76.1
1992	30,800.2	22,536.3	8,263.9	73.2
1991	28,109.3	20,094.8	8,014.5	71.5

The following chart shows a five-year history of the accrued liability and the valuation assets:



Five-Year History of Accrued Liability and Valuation Assets

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO

### GASB No. 5 Disclosure

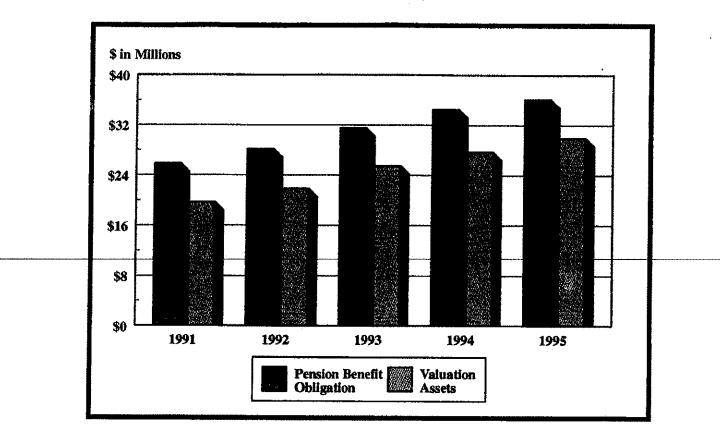
Statement Number 5 of the Governmental Accounting Standards Board sets certain standards of financial accounting and reporting for the annual financial statements of a defined benefit pension plan.

This statement requires the disclosure of the actuarial present value of credited projected benefits, and the effect of any changes in actuarial assumptions or benefit provisions. The actuarial present value of credited projected benefits is a standardized measure of the accrued pension benefit obligation. It is the value of benefits estimated to be payable in the future based on service through July 1, 1995 and projected salary increases. The value of benefits is based on the unit credit cost method which allocates an equal benefit amount (including projected salary increases) to each year of credited and expected future member service. This cost method generates liabilities which are lower than the entry-age normal method used forfunding purposes.

Valuation as of July 1	Pension Benefit Obligation	Valuation Assets (Excluding Health Care Reserve)	Unfunded Pension Benefit Obligation	Funded Ratio
1995	\$ 36,112.3	\$ 29,913.4	\$ 6,198.9	82.8%
1994	34,481.5	27,695.1	6,786.4	80.3
1993	31,464.0	25,485.2	5,978.8	81.0
1992	28,114.0	21,786.0	6,328.0	77.5
1991	25,812.7	19,655.0	6,157.7	76.1

#### Five-Year History of GASB No. 5 Disclosure (\$ results reported in millions)

The following chart shows a five-year history of the pension benefit obligation and the valuation assets (excluding Health Care Reserves):



Five-Year History of Pension Benefit Obligation and Valuation Assets

### **Rate of Return**

The investment return of the trust fund on a market value basis (i.e., total return including both realized and unrealized gains and losses) for fiscal years ended June 30, 1991 through 1995 is shown on the following page. The return based on the valuation assets used for determining annual funded status is also shown.

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO



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Fiscal Year	Rate of Return Based on		
Ended June 30	Market Value	Valuation Assets	
1995	16.6%	9.9%	
1994	1.3	8,4	
1993	12.5	10.4	
1992	12.9	11.3	
1991	8.2	9.2	

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The remainder of the report is comprised of the following sections or schedules:

Table 1		Summary of Results of Actuarial Valuation as of July 1, 1995
Table 2		Summary of Market Value of Plan Assets as of June 30, 1995
Table 3		Derivation of Market-Related Value of Assets as of June 30, 1995
Table 4	_	Summary of Book Value of Plan Assets as of June 30, 1995
Table 5		Health Care Premium Stabilization Fund as of July 1, 1995
Table 6	—	Analysis of Gain as of July 1, 1995
Table 7	_	Pension Benefit Obligation as of July 1, 1995 - GASB Statement No. 5
		Disclosure
Table 8	_	Solvency Test - Comparative Summary of Accrued Liability and Valuation
		Assets
Table 9		10-Year Payout Projection Based on July 1, 1995 Valuation Data -
		Current Plan Benefits
Table 10		Description of Actuarial Assumptions and Methods
Table 11	_	Summary of Benefit and Contribution Provisions
Table 12		Summary of Membership Data as of July 1, 1995
Exhibit I	_	Active Membership Data as of July 1, 1995 - Number and Average Annual
		Salary
Exhibit II		Retiree and Beneficiary Membership Data as of July 1, 1995 - Number and
		Annual Retirement Allowances
Exhibit III	_	Retiree and Beneficiary Membership Data as of July 1, 1995 - Number and
		Average Annual Allowance
Exhibit IV	_	10-Year History of Membership Data
Exhibit V	·	Detailed Tabulations of the Data

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### SUMMARY OF RESULTS OF ACTUARIAL VALUATION AS OF JULY 1, 1995

(\$ amounts in thousands)

Item	July 1, 1995
Membership Data	
1. Number of Members	
<ul> <li>a) Active Members</li> <li>b) Reemployed Retirces</li> <li>c) Inactive Members <ul> <li>(i) Eligible for Allowances</li> </ul> </li> </ul>	166,623 7,436 17,013
<ul> <li>(ii) Eligible for Refunds Only</li> <li>d) Retirees and Beneficiaries</li> <li>e) Total</li> </ul>	99,164 
2. Annualized Salaries	\$ 6,110,218
3. Membership Payroll	\$ 6,327,049
4. Annual Allowances	\$ 1,434,032
Valuation Results	
5. Accrued Liability	
<ul> <li>a) Active Members</li> <li>b) Reemployed Retirees</li> <li>c) Inactive Members</li> <li>d) Retirees and Beneficiaries* <ul> <li>(i) Annuity and Pension Reserve Fund</li> </ul> </li> </ul>	\$ 20,183,008 22,004 1,227,845 16,343,750
(i) Survivors' Benefit Fund (ii) Subtotal	<u>401.340</u> \$ 16,745,090
e) Total	\$ 38,177,947
6. Reserves	
<ul> <li>a) Health Care Premium Stabilization Fund</li> <li>b) Reserve Established as of July 1, 1990</li> <li>c) Reserve Established as of July 1, 1993</li> <li>d) Total</li> </ul>	\$ 1,503,228 78,000 <u>228,000</u> \$ 1,809,228
7. Total Liability	\$ 39,987,175

\*Includes \$118,917 attributable to the dedicated bond fund.

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# SUMMARY OF RESULTS OF ACTUARIAL VALUATION AS OF JULY 1, 1995 (\$ amounts in thousands) (Continued)

	Item	July 1, 1995
8.	Assets	
	<ul> <li>a) Market-Related Value of Assets</li> <li>b) Present Value of Future State Appropriations for House Bills 204 and 248</li> </ul>	\$ 31,401,922
	<ul> <li>(i) Annuity and Pension Reserve Fund</li> <li>(ii) Survivors' Benefit Fund</li> </ul>	14,103 652
	c) Total	\$ 31,416,677
9.	Unfunded Accrued Liability (7) - (8)	\$ 8,570,498
10.	Funding Period	29.3 Years
11.	Funded Status	78.6%
12.	Normal Contribution Rate	14.74%
13.	Member Contribution Rate	9.30%
14.	Employer Normal Contribution Rate	5.44%
Allo	cation of Employer Contribution Rate	
15.	Employer Contribution Rate	
	<ul> <li>a) Normal Contribution</li> <li>b) Unfunded Liability</li> <li>c) Total Pension Rate</li> <li>d) Health Care</li> </ul>	5.44% <u>6.56</u> 12.00% _2.00
	e) Total	14.00%

## SUMMARY OF MARKET VALUE OF PLAN ASSETS

AS OF JUNE 30, 1995 (\$ amounts in thousands)

Market Value		
1. Market Value of Assets as of June 30, 1994	\$ 27,857,117	
2. Contributions During Year	1,590,139	
3. Disbursements During Year	1,548,147	
<ul> <li>4. Investment Return During Year</li> <li>(a) Gross Investment Return</li> <li>(b) Expenses</li> <li>(c) Net Investment Return (a) - (b)</li> </ul>	4,659,737 <u>46,458</u> \$ 4,613,279	
<ul> <li>5. Market Value of Assets as of June 30, 1995</li> <li>(1) + (2) - (3) + (4)</li> </ul>	\$ 32,512,388	
6. Rate of Return	16.55%	

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### DERIVATION OF MARKET-RELATED VALUE OF ASSETS AS OF JUNE 30, 1995

	Investment Incom	ię.		
Actual	Expected	Difference	% Deferred	Deferred Amount
4,613,279 357,307 8,048,085	\$ 2,140,929 1,970,609 1,824,312	\$ 2,472,350 (1,613,302) 1,223,773	66%% 33% 0	\$ 1,648,233 (537,767) <u>0</u> \$ 1,110,466
	357,307	357,307 1,970,609	357,307 1,970,609 (1,613,302)	357,307 1,970,609 (1,613,302) 331/6



### SUMMARY OF RESULTS OF ACTUARIAL VALUATION AS OF JULY 1, 1995

(\$ amounts in thousands)

Item	July 1, 1995
Membership Data	
1. Number of Members	
<ul><li>a) Active Members</li><li>b) Reemployed Retirees</li><li>c) Inactive Members</li></ul>	166,623 7,436
<ul><li>(i) Eligible for Allowances</li><li>(ii) Eligible for Refunds Only</li></ul>	17,013 99,164
<ul><li>d) Retirees and Beneficiaries</li><li>e) Total</li></ul>	<u>83,136</u> 373,372
2. Annualized Salaries	\$ 6,110,218
3. Membership Payroll	\$ 6,327,049
4. Annual Allowances	\$ 1,434,032
Valuation Results	
5. Accrued Liability	
<ul> <li>a) Active Members</li> <li>b) Reemployed Retirees</li> <li>c) Inactive Members</li> </ul>	\$ 20,183,008 22,004 1,227,845
<ul> <li>d) Retirees and Beneficiaries*</li> <li>(i) Annuity and Pension Reserve Fund</li> </ul>	16,343,750
(ii) Survivors' Benefit Fund (iii) Subtotal	<u>401,340</u> \$ 16,745,090
e) Total	\$ 38,177,947
6. Reserves	
a) Health Care Premium Stabilization Fund b) Reserve Established as of July 1, 1990	\$ 1,503,228 78,000
<ul><li>c) Reserve Established as of July 1, 1993</li><li>d) Total</li></ul>	228,000 \$ 1,809,228
7. Total Liability	\$ 39,987,175

\*Includes \$118,917 attributable to the dedicated bond fund.

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## SUMMARY OF RESULTS OF ACTUARIAL VALUATION

AS OF JULY 1, 1995 (\$ amounts in thousands) (Continued)

i i i	Item	July 1, 1995
8.	Assets ·	
	<ul> <li>a) Market-Related Value of Assets</li> <li>b) Present Value of Future State Appropriations for House Bills 204 and 248</li> </ul>	\$ 31,401,922
	<ul><li>(i) Annuity and Pension Reserve Fund</li><li>(ii) Survivors' Benefit Fund</li></ul>	14,103 652
	c) Total	\$ 31,416,677
9.	Unfunded Accrued Liability (7) - (8)	\$ 8,570,498
10.	Funding Period	29.3 Years
11.	Funded Status	78.6%
12.	Normal Contribution Rate	14.74%
13.	Member Contribution Rate	9.30%
14.	Employer Normal Contribution Rate	5.44%
Alloc	ation of Employer Contribution Rate	
15.	Employer Contribution Rate	
	a) Normal Contribution	5.44%
	<ul><li>b) Unfunded Liability</li><li>c) Total Pension Rate</li></ul>	<u>_6.56</u> 12.00%
	d) Health Care	2.00
	e) Total	14.00%

### SUMMARY OF MARKET VALUE OF PLAN ASSETS AS OF JUNE 30, 1995 (\$ amounts in thousands)

\$ 27,857,117
1,590,139
1,548,147
4,659,737
46.458
\$ 4,613,279
\$ 32,512,388
16.55%

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## DERIVATION OF MARKET-RELATED VALUE OF ASSETS AS OF JUNE 30, 1995 (\$ amounts in thousands)

	Investment Income	<u>e</u>		Deferred
ear <u>Actual</u>	Expected	Difference	% Deferred	Amount
995       \$ 4,613,279         994       357,307         993       3,048,085	\$ 2,140,929 1,970,609 1,824,312	\$ 2,472,350 (1,613,302) 1,223,773	66%% 33% 0	\$ 1,648,233 (537,767) <u>0</u> \$ 1,110,466
	of Assets as of Jun	• • • • • • •		\$

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## SUMMARY OF BOOK VALUE OF PLAN ASSETS AS OF JUNE 30, 1995 (\$ amounts in thousands)

Book Value	
1. Book Value of Assets as of June 30, 1994	\$ 27,267,848
2. Contributions During Year	1,590,139
3. Disbursements During Year	1,548,147
4. Investment Return During Year	
(a) Gross Investment Return	2,348,438
(b) Expenses	46,458
(c) Net Investment Return (a) - (b)	\$ 2,301,980
5. Book Value of Assets as of June 30, 1995	
(1) + (2) - (3) + (4)	\$ 29,611,820
6. Rate of Return	8.44%
Statement of Fund Balances	
1. Teachers' Savings Fund	\$ 5,533,684
2. Employers' Trust Fund	9,350,128
3. Annuity and Pension Reserve Account	14,326,668
4. Survivors' Benefit Fund	401,340
5. Total	\$ 29,611,820

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### TABLE 5

## HEALTH CARE PREMIUM STABILIZATION FUND AS OF JULY 1, 1995 (\$ amounts in thousands)

1.	Balance as of July 1, 1994	\$	829,600
2.	July 1, 1995 Actuarial Reserve Transferred		652,000
3.	Contributions During Year		
ł	(a) Employer	l	126,541
!	(b) Member Premiums		37,825
ļ	(c) Total	\$	164,366
4.	Outgo During Year	\$	203,592
5.	Interest During Year	\$	60,854
6.	Balance as of July 1, 1995		
•	(1) + (2) + (3) - (4) + (5)	\$	1,503,228

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### TABLE 6

### ANALYSIS OF GAIN AS OF JULY 1, 1995 (\$ amounts in thousands)

1.	Ex	pected Unfunded Accrued Liability at July 1, 1995	\$	9,309,375
2.	Un	funded Accrued Liability at July 1, 1995	\$	8,570,498
3.	Ga	in (1) - (2)	\$	738,877
4.	An	alysis of Gain		
	a)	Investment Return Gain on Valuation Assets	\$	694,274
	b)	Experience Gains and (Losses)		
		<ul> <li>(i) Gain from Payroll Growth Greater than Expected</li> <li>(ii) Loss from Salary Increases Greater than Expected</li> </ul>	\$	113,910 (97,077)
		(iii) Gain from Retirement, Other Separation Experience and Change in Reporting Procedures	-	72,567
		(iv) Loss from Retirees' Mortality Experience	-	<u>(44.797</u> )
		(v) Total	\$	44,603
	c)	Net Gain as of July 1, 1995		
		(a) + (b)	\$	738,877

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#### TABLE 7

#### PENSION BENEFIT OBLIGATION AS OF JULY 1, 1995 GASB STATEMENT NO. 5 DISCLOSURE (\$ amounts in thousands)

	na an a	
1.	Vested Pension Benefit Obligation	
	<ul> <li>a) Annuitants and Beneficiaries</li> <li>b) Terminated Vested Members</li> <li>c) Reemployed Retirees</li> <li>d) Active Members - Member Financed</li> <li>e) Active Members - Employer Financed</li> </ul>	\$ 16,745,090 1,227,845 22,004 5,016,566 5,358,374
	f) Total Vested	\$ 28,369,879
2.	Nonvested Pension Benefit Obligation	\$ 7,742,472
3.	Total Pension Benefit Obligation	\$ 36,112,351
4.	Market-Related Value of Assets (excludes Health Care Reserve of \$1,503,228)	\$ 29,913,449
5.	Unfunded Pension Benefit Obligation	\$ 6,198,902

The assumptions used to determine the pension benefit obligation include:

- (1) A rate of return on the investment of present and future assets of  $7\frac{1}{2}$ % per year compounded annually.
- (2) Projected salary increase ranging from 9.25% at age 20 to 3.25% at age 65 which reflects an allowance for inflation and merit or seniority increases.
- (3) Annual post-retirement benefit increases of 3% of the member's benefit at retirement, based on the assumption that the change in the Consumer Price Index will equal or exceed 3% each year in the future.

### SOLVENCY TEST COMPARATIVE SUMMARY OF ACCRUED LIABILITY AND VALUATION ASSETS

		Accrued Liability for	•			of Accrued 1 by Valuatio	
Valuation as of July 1	(I) Active Member Contributions	(2) Retirees and Beneficiaries	(3) Active Member (Employer Financed Portion)	Valuation Assets	ψ	(2)	(3)
1995	\$5,533,683,844	\$16,745,089,502	\$17,708,401,240	\$31,416,676,685	100%	100%	52%
1994	5,158,560,944	14,025,124,404	17,688,123,667	28,543,410,432	100	100	53
1993	4,798,350,225	12,869,722,653	16,820,903,527	26,259,447,414	100	100	51
1992	4,434,875,773	11,506,994,329	14,858,367,850	22,536,343,069	100	100	44
1 <b>99</b> 1	4,076,989,530	10,440,583,940	13,591,786,886	20,094,848,781	100	100	41
1990	3,729,945,386	9,576,505,968	12,576,887,425	18,242,453,340	100	100	39
1 <b>9</b> 91	3,446,311,610	8,618,907,338	11,553,469,281	16,407,002,188	100	100	38
1988	3,153,950,326	7,932,553,422	10,286,464,628	14,613,182,194	100	100	34
1987	2,900,597,610	7,079,879,662	9,311,314,420	12,911,071,860	100	100	31
1986	2,637,764,379	6,490,306,408	8,181,129,862	10,895,158,195	100	100	22

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### TABLE 9

### 10 YEAR PAYOUT PROJECTION BASED ON JULY 1, 1995 VALUATION DATA

### CURRENT PLAN BENEFITS

	Current	Actives	Current Retirees	and Beneficiaries	Total Retirees	and Beneficiaries
Fiscal Year Beginning July I	Projected Number of New Retirements	Projected Annual Benefits	Projected Number in Receipt of Benefits	Projected Annual Benefits	Projected Number of Retirees and Beneficiaries	Projected Annual Benefits
1995	3,536	\$ 116,614,900	83,136	\$ 1,435,653,578	86,672	\$ 1,552,268,478
1996	7,465	205,661,370	81,906	1,443,044,447	89,371	1,648,705,817
1997	11,631	308,363 <b>,900</b>	80,695	1,450,886,664	92,326	1,759,250,564
1998	16,383	426,714,740	79,502	1,457,613,757	95,885	1,884,328,497
1999	20,296	563,648,150	78,325	1,461,928,565	98,621	2,025,576,715
2000	26,654	724,024,810	77,165	1,462,933,369	103,819	2,186,958,179
2001	32,096	901,999,350	76,022	1,460,254,075	108,118	2,362,253,425
2002	37,857	1,097,771,120	74,896	1,454,397,112	112,753	2,552,168,232
2003	43,788	1,311,813,340	73,785	1,445,853,415	117,573	2,757,666,755
2004	49,693	1,539,756,680	72,692	1,434,561,918	122,385	2,974,318,598

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO

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## DESCRIPTION OF ACTUARIAL ASSUMPTIONS AND METHODS

### ASSUMPTIONS

INTEREST RATE: 71/2 % per annum, compounded annually.

SEPARATION FROM ACTIVE SERVICE: Illustrative rates of assumed separation from service are as follows:

			Annual	Rate of:		
		Vesting & Early Retirement				
Age	Termination	30 Years Service	25-29 Years Service	Under 25 Years Service	Death	Disability
			MALES			
20 30 40 50 55 60 65 70	6.84% 5.24 2.36 1.20 1.22 1.30 1.30	25.88% 23.81 28.46 43.99 41.40	4.95% 6.75 36.00 36.00	7.65% 25.65 31.50	.04% .05 .08 .26 .27 .43 .91 1.39	.03 % .09 .54 .77
	-		FEMALE	۰ ۲	• •	
20 30 40 50 55 60 65 70	4.53% 4.79 1.98 1.19 1.01 .93 .98	25.88% 25.88 30.02 46.58 41.40	9.00% 13.05 36.00 31.50	14.40% 29.70 27.00	.02 % .03 .05 .12 .19 .30 .35 .52	.05% .12 .48 .70



#### **TABLE 10**

#### DESCRIPTION OF ACTUARIAL ASSUMPTIONS AND METHODS (Continued)

SALARY INCREASE: Effective average of 5% per annum, compounded annually. Representative values are as follows:

Age	Annual Rate of Salary Increase		
20	9.25%		
30	7.25		
40	5.25		
50	4.05		
55	3.75		
60	3.50		
65	3.25		
70	3.25		

DEATH AFTER RETIREMENT: According to the 1983 Group Annuity Mortality Table (Projection 1992 - Scale H) with no setback in age for males and one year set forward in age for females. Special mortality tables are used for the period after disability retirement.

FUTURE EXPENSES: The assumed interest rate is net of the anticipated future administrative expenses of the fund.

#### METHODS

ACTUARIAL COST METHOD: Projected benefit method with level percentage entry age normal cost and open-end unfunded accrued liability. Gains and losses are reflected in the accrued liability.

ASSET VALUATION METHOD: A 3-year moving market average value of assets that spreads the difference between the actual investment income and the expected income (based on the valuation interest rate) over a period of 3 years.

PAYROLL GROWTH: 5% per annum compounded annually.

### DATA

CENSUS AND ASSETS: The valuation was based on members of the System as of July 1, 1995 and does not take into account future members. All census and asset data was supplied the System.

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO



#### SUMMARY OF BENEFIT AND CONTRIBUTION PROVISIONS

#### Eligibility for Membership

Immediate upon commencement of employment.

#### Service Retirement Eligibility

Amount

Age 60 with 5 years of service, or age 55 with 25 years of service, or 30 years of service regardless of age.

Annual amount equal to the greater of (a) 2.1% of final average salary for the three highest paid years, multiplied by years of total Ohio service credit, except that for years of Ohio contributing service credit in excess of 30 a formula percentage of 2.5% will apply, or (b) \$86 multiplied by years of service credit; and adjusted by the following percentage:

 Attained		Years of Ohio	% of Base	<u> </u>
 Age	or	Service Credit	Amount	
58		25	75%	
59		26	80	
60		27	85	
61			88	
		28	90	
62			91	
63			94	
		29	95	
64			97	
65		30 or more	100	

Annual salary is subject to a limit of 200,000, as adjusted under Section 401(a)(17).

Maximum benefit - The lessor of a) 100% of average annual salary for three highest paid years or b) the limit as established by Section 415 of the Internal Revenue Code.

Minimum benefit - the sum of the annuity provided by the a) member's contributions with interest, b) a pension equal to the annuity, and c) an additional pension of \$40 multiplied by the number of years of prior and military

#### SUMMARY OF BENEFIT AND CONTRIBUTION PROVISIONS (Continued)

service. Effective July 1, 1994 member's contributions are credited with 6% interest compounded annually.

Disability Retirement Eligibility

Amount

#### Disability Allowance Eligibility

Amount

Death after Retirement

Membership before July 30, 1992 and election of this benefit, completion of 5 or more years of service, under age 60 and permanently incapacitated for the performance of duty.

(1) Annuity with a reserve equal to the member's accumulated contributions, plus

(2) The difference between (1) and the greater of 2% of the average salary during the 3 highest paid years or \$86 times total service plus years and months from date of disability to age 60. Maximum allowance is 75% of final average salary. Minimum allowance is 30% of final average salary.

Membership after July 29, 1992, or membership before July 30, 1992 and election of this benefit, completion of 5 or more years of service and permanently incapacitated for the performance of duty.

The greater of 2.1% of the average salary during the 3 highest paid years or \$86 times total service. Maximum allowance is 60% of final average salary. Minimum allowance is 45% of final average salary. The disability allowance payment terminates at age 65 (or later if payment begins after age 60). After termination of the disability allowance, the member may apply for service retirement.

Lump sum payment of \$1,000 upon death after service or disability retirement.



#### SUMMARY OF BENEFIT AND CONTRIBUTION PROVISIONS (Continued)

Survivor's Benefit Eligibility

Upon death after at least  $1\frac{1}{2}$  years of credit for Ohio service with at least 1/4 year of such service in the  $2\frac{1}{2}$  years preceding death or upon death of a disability retiree.

If member is eligible for retirement, spouse or other sole dependent beneficiary may elect to receive Option 1 benefit in lieu of return of contributions.

If member is not eligible for retirement certain designated beneficiaries may elect to receive the following benefits in lieu of return of contributions.

Number of Qualified Dependents	% of Average Annual Salary for 3 <u>Highest Paid Years</u>	Minimum Annual Benefit
. 1	25%	\$ 1,152
2	40	2,232
3	50	2,832
4	55	2,832
5 or more	60	2,832

A minimum benefit of a percentage of final average salary based on years of credited service ranging from 25% with 19 years of service to 60% with 29 years of service.

Qualified beneficiaries are spouse, dependent children and/or dependent parents over age 65.

Option 1 - 100% joint and survivorship. Reduced retirement allowance payable to the member continuing for life to the member's sole beneficiary named at retirement after the member's death.

Option 2 - A joint and survivorship annuity payable during the lifetime of the member, with the member's sole beneficiary named at retirement to receive some other portion of the member's annuity after the member's death.

Amount

**Optional Forms of Benefit** 



#### SUMMARY OF BENEFIT AND CONTRIBUTION PROVISIONS (Continued)

Option 3 - The member's reduced retirement allowance provided under Option 1 or Option 2 is to be paid for life to the member's sole beneficiary named at retirement after the member's death, except that in the event of the death of the sole beneficiary or termination of marriage between the retiree and the sole beneficiary, the retiree may elect to return to his single lifetime benefit equivalent which would be available for an actuarially computed charge as determined by the Board. In the case of termination of marriage the election may be made with the written consent of the beneficiary or by court order.

Option 4 - A life annuity payable during the lifetime of the member, with a guarantee that upon the member's death before the expiration of a certain period, his benefit will continue for the remainder of such period to hisbeneficiary. Joint beneficiaries may receive the present value of any remaining payments in a lump sum settlement. If all beneficiaries die before the expiration of the certain period, the present value of all payments that remain to be paid are to be paid to the estate of the beneficiary last receiving.

Option 5 - A plan of payment established by the Board combining any of the features of Option 1, 2, and 4.

A member's contributions without interest are refunded upon termination of employment where no other benefit is payable. Upon death after retirement or upon death of a survivor in receipt of benefits, the member's contributions without interest at retirement less payments made are returned to the designated beneficiary.

The basic benefit is increased by 3% each year provided the change in Consumer Price Index equals or exceeds 3%.

**Refund of Contributions** 

**Cost-of-living Benefits** 

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO

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#### SUMMARY OF BENEFIT AND CONTRIBUTION PROVISIONS (Continued)

Retirees, their spouses and dependents are eligible for a **Health Care** comprehensive medical expense health care plan as may be offered by the Retirement Board and which is subject to changes in terms and conditions from time to time.

#### Contribution

By Members

By Employers

9.30% of salary effective July 1, 1994.

14.00% of salaries of their employees who are members.



#### TABLE IA

#### THE NUMBER AND ANNUAL SALARIES OF ACTIVE MEMBERS DISTRIBUTED BY AGE AS OF JULY 1, 1995

AGE	NUMBER	AMOUNT
61	996	\$ 46,181,754
62	753	35,031,303
63	670	31,027,886
64	447	20,881,536
65	394	18,828,425
66	253	11,486,577
67	190	8,324,056
68	136	5,668,273
69	101	4,403,321
70	· 90	3,597,200
71	60	2,102,499
72	32	1,265,181
73	24	699,748
74	14	416,605
75	17	423,731
76	6	230,810
77	8	249,688
78	7	276,452
<b>79</b> ·	6	123,142
80	6	120,099
81	2	89,269
82	3	24,729
83	2	40,487
84	1	1,908
TOTAL	166,623	\$ 6,110,218,037

IN ADDITION TO THE ABOVE, THERE ARE THE FOLLOWING REHIRED ANNUITANTS:

NUMBER		7,436
ACCUMULATED	CONTRIBUTIONS	
PLUS INTEREST	\$	1,101,925



#### THE NUMBER AND ANNUAL SALARIES OF ACTIVE MEMBERS DISTRIBUTED BY YEARS OF SERVICE AS OF JULY 1, 1995

YEARS				
OF	MALE		FEMALE	
SERVICE	NUMBER	AMOUNT	NUMBER	AMOUNT
0	1,606		· · ·	\$ 32,345,449
1	3,871		8,490	132,587,946
2	3,000	74,693,876	6,744	136,931,978
	2,255	64,462,870	5,426	125,419,510
4	2,022	65,185,238	4,886	125,954,652
5	1,808	63,997,842	4,824	133,730,027
6	1,656	61,957,058	4,597	135,117,992
7	1,590		4,058	126,456,674
8	1,455	60,113,548	3,955	127,845,218
9	1,465	61,661,852	3,921	131,560,412
10	1,536	69,341,735	3,728	130,075,174
11	1,401	61,916,717	3,774	135,839,847
12	1,215	56,902,975	3,268	119,468,383
13	1,031	49,894,366	2,800	104,223,319
14	1,035	49,830,245	2,739	104,919,607
15	1,309	63,330,759	3,141	125,032,737
16	1,372	66,905,562	3,430	139,313,018
17	1,559	76,763,986	3,679	151,947,705
18	1,513	74,052,446	3,683	153,788,183
19	1,677	82,189,428	3,333	140,531,505
20	1,563	76,672,254	3,360	142,886,496
21	1,672	82,162,736	3,325	143,559,678
22	1,824	91,407,234	3,538	153,889,775
23	1,932	97,226,420	3,103	137,577,890
24	1,967	101,600,715	3,064	136,167,487
25	1,729	90,744,302	2,506	113,081,790
26	1,928	99,258,602	2,488	112,945,470
27	2,108	113,877,839	1,915	87,295,720
28	1,539	81,188,237	1,523	69,679,325
29	1,334	72,007,087	1,194	54,667,005
30	905	50,004,996	795	36,727,556
31	554	30,628,151	513	24,027,278
32	422	23,623,602	321	15,071,865
33	335		213	9,697,082
34	265	15,581,552	227	10,354,503
35	140		127	6,015,459
36	72	4,156,463	83	3,891,996
37	92	5,690,083	50	2,365,507
38	36	2,341,636	51	2,484,042
39	48	2,950,409	27	1,278,361

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## THE NUMBER AND ANNUAL SALARIES OF ACTIVE MEMBERS DISTRIBUTED BY YEARS OF SERVICE AS OF JULY 1, 1995

	YEARS		NAT IS	τ	EMALE
1	OF		MALE	NUMBER	AMOUNT
	SERVICE	NUMBER	AMOUNT	NUMBER	· · · · · · · · · · · · · · · · · · ·
	40	16	\$ 986,447	19	
	41	17	966,745	10	460,090
	42	6	393,140	3	195,755
	43	4	236,334	10	429,065
	44	. 7	415,013	3	111,895
1	45	0	0	4	199,906
	46	1	65,879	0	0
	47	1	55,450	3	125,394
	49	1	51,392	0	0
	50	1	82,518	1	45,240
	52	0	0	1	45,882
	56	0	0	. 1	39,163
~	TOTAL	54,895	\$ 2,330,906,844	111,728	\$ 3,779,311,193

IN ADDITION TO THE ABOVE, THERE ARE THE FOLLOWING REHIRED ANNUITANTS:

7,436 1,101,925 ACCUMULATED CONTRIBUTIONS PLUS INTEREST \$



## TABLE 2A

## THE NUMBER AND ANNUAL SALARIES OF ACTIVE MEMBERS DISTRIBUTED BY YEARS OF SERVICE AS OF JULY 1, 1995

YEARS		
OF	NUMBER	AMOUNT
SERVICE	NUMBER	AMOONI
	4 280	\$ 51,385,272
· 0	4,380	\$
1	12,361	211,625,854
2	9,744 7,681	189,882,380
3 4	6,908	191,139,890
	6,632	197,727,869
5		197,075,050
6	6,253	189,849,490
7	5,648	187,958,766
8	5,410	
9	5,386	193,222,264
10	5,264	199,416,909
11	5,175	197,756,564
12	4,483	176,371,358
13	3,831	154,117,685
14	3,774	154,749,852
15	4,450	188,363,496
16	4,802	206,218,580
17	5,238	228,711,691
18	5,196	227,840,629
19	5,010	222,720,933
20	4,923	219,558,750
21	4,997	225,722,414
22	5,362	245,297,009
23	5,035	234,804,310
24	5,031	237,768,202
25	4,235	203,826,092
26	4,416	212,204,072
27	4,023	201,173,559
28	3,062	150,867,562
29	2,528	126,674,092
30	1,700	86,732,552
31	1,067	54,655,429
32	743	38,695,467
33	548	
34	492	25,936,055
35	267	14,205,539
36	155	8,048,459
37	142	8,055,590
38	87	4,825,678
39	75	4,228,770

## TABLE 2A

## THE NUMBER AND ANNUAL SALARIES OF ACTIVE MEMBERS DISTRIBUTED BY YEARS OF SERVICE AS OF JULY 1, 1995

YEARS OF SERVICE	NUMBER	AMOUNT
40	35	\$ 1,891,629
41	27	1,426,835
42	.9	588,895
43	14	665,399
44	10	526,908
45	4	199,906
46	1	65,879
47	4	180,844
49	1	51,392
50	2	127,758
52	1	45,882
56	· 1	39,163

TOTAL | 166,623 \$ 6,110,218,037 IN ADDITION TO THE ABOVE, THERE ARE THE FOLLOWING REHIRED ANNUITANTS:

NUMBER		7,436
ACCUMULATED	CONTRIBUTIONS	
<b>PLUS INTEREST</b>	\$	1,101,925



## THE NUMBER OF INACTIVE MEMBERS ELIGIBLE FOR FUTURE ALLOWANCE DISTRIBUTED BY AGE AS OF JULY 1, 1995

AGE	MALE	FEMALE	TOTAL
27		1	1
28	4	31	35
29	3	60	63
30	14	55	69
31	8	174	182
32	28	126	154
33	21	212	233
34	32	253	285
35	38	121	159
36	77	289	366
37	58	237	295
38	61	393	454
39	96	323	419
40	111	290	401
41	147	491	638
42	. 157	421	-578
43	120	525	645
44	206	631	837
45	214	609	823
46	271	540	811
47	256	491	747
48	390	836	1,226
49	185	280	465
50	177	546	723
51	· 240	376	616
52	308	656	964
53	164	395	559
54	206	576	782
55	180	369	549
56	192	424	616
57	189	400	589
58	138	361	499
59	156	426	582
60	73	63	136
61	48	83	131
62	29	49	78
63	29	57	86
64	23	31	54
65	23	25	48
66	4	19	23
67	10	12	22
68	3	6	9

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO

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#### TABLE 3

## THE NUMBER OF INACTIVE MEMBERS ELIGIBLE FOR FUTURE ALLOWANCE DISTRIBUTED BY AGE AS OF JULY 1, 1995

AGE	MALE	FEMALE	TOTAL
69	6	8	14
70	4	5	9
. 71	3	8	11
72	2	5	7
73	2	4	6
74	3	2	5
75	0	1	1
76	0	2	2
77	0	2	2
78	1	0	1
79	0	1	1
81	0	1	1
83	0	1	1
TOTAL	4,710	12,303	17,013



## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

#### SUPERANNUATION RETIREES

	1	MALE	FI	EMALE
AGE	NUMBER	AMOUNT	NUMBER	AMOUNT
87	165	\$ 2,130,926	900	\$ 7,922,737
88	151	1,797,658	751	6,456,893
89	102	1,072,380	663	5,809,165
90	85	1,008,188		5,130,898
91	55	566,823	519	4,355,724
92	50	562,979	374	3,030,083
93	41	463,633	305	2,548,506
94	26	288,919	199	1,593,079
95	15	169,083	145	1,173,398
96	15	190,793	92	813,284
97	8	95,762	69	508,320
98	6	58,797	42	407,963
	5	<del>52,02</del> 0	33	283,378
100	4	43,360	14	126,345
101			13	117,019
102	1	11,574	7	62,737
103			7	48,256
104	2	17,392	1	13,186
105	2	19,113	2	19,303
106			1	7,568
TOTAL	25,028	\$ 596,778,167	42,961	\$ 635,356,836
SUMMARY	<i>c c i</i> 0	,	20.012	A 202 101 200
NO OPTION	5,548	\$ 118,453,709	28,013	\$ 393,281,299
OPTION 1	11,016	258,063,669	5,093	69,952,541
OPTION 2	4,474	113,075,775	3,166	55,334,555
OPTION 3	2947	81,382,572	4934	90,278,808
OPTION 4	712	16,410,279	1315	18,334,644
OPTION 5	10	109,764	51	497,882
OPTION 6	9	183,435	44	634,425
OPTION 7	3	44018	40	533,789



# TABLE 5A

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

# SUPERANNUATION RETIREES

	AGE	NUMBER	AMOUNT
	48	3	\$ 85,427
	49	9	222,601
	50	110	3,268,979
	51	264	7,766,660
	52	582	16,746,505
	53	763	22,249,631
	54	964	28,339,331
	55	1,130	32,506,615
	56	1,343	38,571,561
	57	1,390	40,576,085
	58	1,568	45,209,842
	59	1,588	45,590,970
	60	2,190	49,523,637
	61	2,081	46,728,896
	62	2,379	52,939,782
	63	2,397	52,126,294
	64	2,758	58,987,762
	65	2,721	55,781,071
	66	2,652	53,489,983
	67	2,665	53,043,973
	68	2,602	49,327,158
	69	2,459	45,519,254
	70	2,389	44,377,635
	71	2,193	38,318,666
	72	2,084	35,188,314
	73	2,008	32,614,702
	74	1,947	29,796,362
	75	1,809	26,458,343
	76	1,658	22,655,159
	77	1,765	22,851,215
	78	1,705	19,156,323
	78	1,503	17,726,759
	80	1,505	17,534,157
	81	1,317	
	81	1,393	15,648,737 14,822,074
	82 83		
	83 84	1,223 1,231	12,660,222
			12,186,094
	85 86	1,155	11,726,447
1	86	1,104	10,824,535



# TABLE 5A

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

## SUPERANNUATION RETIREES

88         902         4           89         765         6           90         673         6           91         574         4           92         424         5	0,053,663 8,254,551 6,881,545 6,139,086 4,922,547
89         765         6           90         673         6           91         574         4           92         424         5	6,881,545 6,139,086 4,922,547
90         673         0           91         574         4           92         424         3	6,139,086 4,922,547
91 574 4 92 424 3	4,922,547
92 424 3	
	2 802 040
93 346 3	3,593,062
	3,012,139
94 225 1	1,881,998
95 160 1	1,342,481
96 107 1	1,004,077
97 77	604,082
98 48	466,760
99 38	335,398
100 18	169,705
101 13	117,019
102 8	74,311
103 7	48,256
104 3	30,578
105 4	38,416
106 1	7,568
TOTAL 67,989 \$ 1,232	2,135,003

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## TABLE 6

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

#### DISABILITY RETIREES

[		MALE	F	EMALE
AGE	NUMBER	AMOUNT	NUMBER	AMOUNT
28			1	\$ 22,275
29			2	40,813
30	1	\$ 18,125	2	33,097
31	2	38,944	6	101,855
32			4	73,222
33	2	38,767	4	68,325
34	2 1 2 2 2 4	19,469	9	164,269
35	2	31,620	8	155,782
36	2	35,839	9	183,988
37	2	40,644	9 7	131,318
38	4	100,548	21	425,531
39	8	189,235	22	459,675
40	6	119,868	34	689,084
41	8	177,141	35	734,271
42	16	335,809	43	892,760
43	22	543,944	67	1,434,186
44	31	785,663	72	1,551,170
45	34	853,807	75	1,573,940
46	54	1,385,440	90	2,008,479
47	65	1,605,115	95	2,117,340
48	79	2,154,068	103	2,163,305
49	59	1,624,008	77	1,620,999
50	75	2,056,810	106	2,452,906
51	72	1,875,323	88	1,976,798
52	99	2,570,822	126	2,776,198
53	76	1,953,698	118	2,564,072
54	81	2,073,171	97	1,937,255
55	67	1,850,326	102	1,966,599
56	73	1,810,922	107	2,139,464
57	66	1,586,014	120	2,299,352
58	75	1,790,800	101	1,798,035
59	82	2,028,168	114	2,100,875
60	91	1,973,196	123	2,298,829
61	84	1,893,321	98	1,688,334
62	76	1,643,542	84	1,519,920
63	76	1,770,197	116	1,962,776
64	94	2,046,025	96	1,419,342
65	67	1,393,873	87	1,209,085
66	65	1,285,145	92	1,307,919

# TABLE 5A

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

## SUPERANNUATION RETIREES

AGE         NUMBER         AMOUNT           87         1,065         \$ 10,053,660           88         902         8,254,555           89         765         6,881,543           90         673         6,139,086           91         574         4,922,544           92         424         3,593,066
88         902         8,254,552           89         765         6,881,542           90         673         6,139,086           91         574         4,922,542
89         765         6,881,54           90         673         6,139,08           91         574         4,922,54
90 673 6,139,08 91 574 4,922,54
91 574 4,922,54
93 346 3,012,13
94 225 1,881,991
95 160 1,342,48
96 107 1,004,07
97 77 604,08
98 48 466,76
99
100 18 169,70
101 13 117,01
102 8 74,31
103 7 48,250
104 3 30,57
105 4 38,410
106 1 7,56
TOTAL 67,989 \$ 1,232,135,003

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

#### DISABILITY RETIREES

Į		MALE		FEMALE		
	AGE	NUMBER	AMOUNT	NUMBER	AMOUNT	
	28			1	\$ 22,275	
	29			2	40,813	
1	30	1	\$ 18,125	2	33,097	
	31	1 2	38,944	2 6	101,855	
	32			4	73,222	
	33	2	38,767	4	68,325	
}	34	2 1	19,469	4 9 8 9	164,269	
1	35	2	31,620	8	155,782	
	36	2	35,839	9	183,988	
	37	2 2 2 4	40,644	7	131,318	
	38	4	100,548	21	425,531	
	39	8	189,235	22	459,675	
	40	6	119,868	34	689,084	
	41	8	177,141	35	734,271	
	42	16	335,809	43	892,760	
	43	22	543,944	67	1,434,186	
	44	31	785,663	72	1,551,170	
	45	34	853,807	75	1,573,940	
	46	54	1,385,440	90	2,008,479	
	47	65	1,605,115	95	2,117,340	
	48	79	2,154,068	103	2,163,305	
	49	59	1,624,008	77	1,620,999	
,	50	75	2,056,810	106	2,452,906	
	51	72	1,875,323	88	1,976,798	
	52	99	2,570,822	126	2,776,198	
	53	76	1,953,698	118	2,564,072	
[	54	81	2,073,171	97	1,937,255	
	55	67	1,850,326	102	1,966,599	
	56	73	1,810,922	107	2,139,464	
	57	66	1,586,014	120	2,299,352	
	58	75	1,790,800	101	1,798,035	
	59	82	2,028,168	114		
	60	91	1,973,196	123	2,298,829	
	61	84	1,893,321	98	1,688,334	
	62	76	1,643,542	84	1,519,920	
	63	76	1,770,197	116		
	64	94	2,046,025	96		
	65	67	1,393,873	87	1,209,085	
	66	65	1,285,145	92	1,307,919	

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO

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## TABLE 6

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

#### DISABILITY RETIREES

		1	MALE		EMALE
	AGE	NUMBER	AMOUNT	NUMBER	AMOUNT
	67	67	\$ 1,333,471	83	\$ 1,171,664
	68	62	1,078,643	107	1,460,441
	69	53	979,176	80	1,006,864
	70	52	953,812	80	942,388
	71	41	757,170		839,634
	72	36	603,434		680,982
	73	31	459,934		851,655
	74	31	429,203		604,060
	75	20	297,678		503,614
:	76	14	228,249		550,429
	77	17	180,717	43	382,988
	78	7	64,402	29	243,553
		6	68,417	31	223,098
	80	5	52,609	24	169,922
	81	6	63,923	13	104,806
	82	2	21,139	20	160,151
	83	1	2,759	10	66,136
	84	3	22,638	14	92,298
	85			9	55,863
	86	2	26,832	4	35,429
	87	2	24,011	9	58,058
	88	1	4,779	6	34,925
	89	2	10,748	3	66,190
	90		, <b>,</b>	4	25,137
	91	1	7,237	4	26,248
	92	2	15,059		28,587
	93	1	9,342	1	4,367
	94			1	5,995
	95			1	9,845
	99	1	8,300		
	TOTAL	2,183	\$ 49,403,089	3,528	\$ 60,468,770

## TABLE 6A

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

## **DISABILITY RETIREES**

	AGE	NUMBER	AMOUNT
	28	1	\$ 22,275
	29	2	40,813
	30	3	51,222
	31	8	140,799
	32	4	73,222
	33	6	107,092
	34	10	183,738
	35	10	187,402
	36	. 11	219,827
	37	9	171,962
	38	. 25	526,079
	39	. 30	648,910
	40	40	
	41	43	911,412
	42	59	1,228,569
	43	89	1,978,130
	44	103	2,336,833
	45	109	2,427,747
	46	144	3,393,919
	47	160	3,722,455
	48	182	4,317,373
	49	136	3,245,007
ч. С	50	181	4,509,716
·	51	160	3,852,121
	52	225	5,347,020
	53	194	4,517,770
	54	178	4,010,426
11 A	55	169	3,816,925
	56	180	3,950,386
	57	186	3,885,366
	58	176	3,588,835
	59	196	4,129,043
3	60	214	4,272,025
	61	182	3,581,655
	62	160	3,163,462
	63	192	3,732,973
	64	190	3,465,367
	.65	154	2,602,958
	66	157	2,593,064

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO

# TABLE 6A

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

#### DISABILITY RETIREES

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i	AGE	NUMBER	AMOUNT
	67	150	\$ 2,505,135
	68	169	2,539,084
	69	133	1,986,040
	70	132	1,896,200
į	71	111	1,596,804
	72	96	1,284,416
	73	110	1,311,589
	74	89	1,033,263
	75	73	801,292
1	76	73	778,678
	77	60	563,705
	78	36	307,955
		37	291,515
1	80	29	222,531
i	81	19	168,729
	82	22	181,290
,	83	11	68,895
	84	. 17	114,936
	85	9	55,863
	· 86	6	62,261
	87	11	82,069
	88	7	39,704
ļ	89	13	76,938
	90	4	25,137
	91	5	33,485
ļ	92	6	43,646
	93	2	13,709
į	94	1	5,995
	95	1	9,845
i	99	1	8,300
		_	-
	TOTAL	5,711	\$ 109,871,859

# THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

## CONTINGENT ANNUITANTS

		MALE		IT	FEMALE		
	AGE_	NUMBER	AMOUNT	NUMBER	AMOUNT		
	12	1	\$ 579				
	14	1	9,272				
	18	2	69,594				
	19	1	726				
	23	-		2	\$ 37,936		
	24	1	13,744		31,869		
	26	1	3,349	2 2	6,334		
	28	-		1	15,837		
	30			2	13,378		
	31			1	27,241		
	32	1	20,372				
	33	1	708	1	20,261		
	34	1	26,213				
	35	2	7,043	2	51,812		
	36	-	- ,	3	46,157		
	37	1	38,544				
	38	_		2	66,647		
	39	-		2	13,763		
	40	3	28,313	2 2 5	73,415		
	41	1	14,911	3	25,020		
	42	4	61,201	3	11,983		
	43		9,965	3	19,240		
	44	3	45,736	8	88,693		
·	45	2 3 1	14,728	5	68,606		
	46		9,814	2	7,009		
	47	2 2	4,002	8 5 2 9	110,457		
	48	-	.,	Q	72,331		
	49	5	32,175	. 4	59,160		
	50	3	40,556	8	122,805		
	51	3	20,640	9	119,796		
	52	5 3 3 2 2 2 2 1	10,163	9	184,311		
	53	2	25,472	7	129,187		
	55	2	9,854	16	269,631		
	55	2	11,096	16	286,730		
	56	1	11,862	27	615,453		
	57	4	24,277	18			
	58		57,696		675,599		
	59	5 3	50,667	27	544,415		
	59 60	6	80,394	41	736,079		
1	00	0	00,294	-41	150,017		

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

#### CONTINGENT ANNUITANTS

		MALE		FEMALE		
	AGE	NUMBER	AMOUNT	NUMBER	AMOUNT	
	61	4	\$ 53,353	45	\$ 752,930	
	62	5	60,233	40	647,764	
	63	11	166,344	50	935,346	
	64	12	124,358	64	1,043,275	
	65	. 14	134,704	83	1,584,884	
	66	24	221,501	85	1,229,938	
	67	22	190,674	94	1,452,650	
	68	27	229,283	86	1,262,525	
	69	29	244,409	112	1,498,995	
	70	24	165,557	130	1,787,769	
	71	27	246,207	107	1,224,327	
	72	39	326,447	109	1,328,953	
	73		<u> </u>		1,730,538	
	74	37	264,306	116	1,419,580	
	75	51	348,170	125	1,332,385	
	76	53	356,711	117	1,359,297	
	77	52	401,279	144	1,453,440	
	78	41	223,208	133	1,300,945	
l l l l l l l l l l l l l l l l l l l	79	43	250,457	148	1,514,548	
	80	62	411,830	154	1,462,847	
	81	48	287,285	137	1,344,492	
	82	43	307,161	131	1,183,104	
	83	34	223,038	131	1,080,004	
	84	34	207,592	151	1,326,606	
	85	29	184,116	134	1,088,330	
	86	27	155,403	133	1,238,597	
·	87	26	205,697	121	1,009,841	
	88	24	130,336	114	1,033,957	
	89	28	188,985	112	903,473	
~	90	23	143,588	98	835,989	
	91.	12	76,267	69	629,026	
	92	13	62,816	64	546,001	
	93	2	14,384	39	333,371	
	94	2 5	32,505	27	253,201	
	95	6	41,206	25	236,877	
	96	1	8,157	20	172,248	
	97		-	10	74,266	
	98			12	119,105	
	99_			5	39,075	

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## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

# CONTINGENT ANNUITANTS

	1	MAL	E	FI	EM/	LE
AGE	NUMBER		AMOUNT	NUMBER		AMOUNT
100	· ·			3	\$	23,412
101				4		28,544
102	1			3		24,546
103	1	\$	6,744	1		8,126
104	1		3,553	1		8,058
TOTAL	1,040	\$	7,702,494	3,901	\$	44,834,355



# TABLE 7A

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

## CONTINGENT ANNUITANTS

-			
	AGE	NUMBER	AMOUNT
	12	1	\$ 579
1	14	1	9,272
	18	2	69,594
	19	1	726
	23	2	37,936
	24	3	45,613
	26	3	9,683
	28	2 1 2 3 3 1 2 1	15,837
	30	2	13,378
	31	1	27,241
-	32	1	20,372
	33	2	20,969
	34	1 2 3	<del>57,958</del>
	35	4	58,855
ĺ	36	3	46,157
	37	1	38,544
	38	2	66,647
	39	1 2 8 4 7 5 11 6	13,763
	40	8	101,728
	41	4	39,931
	42	7	73,184
	43	5	29,205
	44	11	134,429
	45	6	83,334
	46	. 4	16,823
	47	11	114,459
	48	9	72,331
	49	9	91,335
	50	11	
	51	12	140,436
	52	12	194,474
	53	0	154,659
	54	19	279,485
		10	297,826
	55 56	11 12 12 9 18 18 28 22 40	627,315
		20	412,547
	57	22	412,347
	58	40	733,295
	59	30 47	595,082
	60	47	816,473

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# TABLE 7A

# THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

## CONTINGENT ANNUITANTS

г	AGE	NUMBER	AMOUNT
	61	49	\$ 806,283
	62	45	707,997
	63	61	1,101,690
	64	76	1,167,633
	65	97	1,719,588
	66	109	1,451,439
	67	116	1,643,324
	68	113	1,491,808
	69	141	1,743,404
	70	154	1,953,326
	70 71	134	1,470,534
	72	148	1,655,400
	73	164	1,981,502
	74	153	1,683,886
	75	176	1,680,555
	76	170	1,716,008
	77	196	1,854,719
	78	174	1,524,153
	79	191	1,765,005
	80 ·	216	1,874,677
	81	185	1,631,777
	82	174	1,490,265
	83	165	1,303,042
•	84	185	1,534,198
	85	· 163	1,272,446
	86	160	1,394,000
	87	147	1,215,538
	88	138	1,164,293
	89	140	
	90	121	979,577
	91	81	705,293
	92	77	608,817
	93	41	347,755
	94	32	285,706
	95	31	278,083
	96	21	180,405
	97	10	74,266
	98	12 5	119,105
	<del>9</del> 9	5	39,075



## TABLE 7A

# THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

# CONTINGENT ANNUITANTS

AGE	NUMBER	AMOUNT
100	3	\$ 23,412
101	4	28,544
102	3	24,546
103	2	14,870
104	2	11,611
TOTAL	4,941	\$ 52,536,849

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THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO



## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

## BENEFICIARIES RECEIVING ALLOWANCES UNDER SURVIVORS BENEFIT FUND

	MALE		FEMALE		
AGE	NUMBER	AMOUNT	NUMBER	AMOUNT	
1	2	\$ 8,389			
2	2	5,211	2	\$ 7,313	
3	4	21,154			
4	5	20,354	3	13,144	
5	6	31,031	12	39,063	
6	6	28,364	· 6	32,662	
7	9	56,945	7	40,207	
8	12	63,174	8	34,553	
9	12	68,115	12	46,051	
10	7	39,931	14	74,096	
11	16	91,691	19	80,406	
12	16	76,964	- 27	128,280	
13	35	150,567	26	103,4 <b>96</b>	
14	36	166,161	32	162,806	
15	43	195,717	44	202,288	
16	50	258,115	35	190,295	
17	42	176,083	37	186,630	
18	49	281,982	44	229,340	
19	38	206,430	44	231,207	
20	41	230,823	39	242,033	
21	39	201,714	52	271,879	
22	1	4,002	1	8,558	
23	1	4,717	1	2,692	
24			1	3,820	
25	1	3,383	2	11,548	
26	1	5,089			
27	1	3,867	2	27,331	
28	2	22,114	1	13,328	
29	4	23,241	2	5,986	
30	2	9,404	1	1,456	
31	2 3	14,310	2	33,601	
32	1	12,822	3	22,407	
33	2	14,678	5	38,698	
34	1	3,012	3	31,485	
35	1	7,045	2	17,366	
36	3	20,872	2	16,682	
37	6	44,704	4	30,669	
38	4	25,166	4	24,268	

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

## BENEFICIARIES RECEIVING ALLOWANCES UNDER SURVIVORS BENEFIT FUND

	MALE		F	EMALE
AGE	NUMBER	AMOUNT	NUMBER	AMOUNT
39	3	\$ 18,332	4	\$ 29,020
40	4	16,821	5	41,383
41	7	50,835	13	110,657
42		71,779	17	149,025
43	9 7	45,056	25	233,846
44	9	63,652	18	210,322
45	8	44,839	19	210,271
46	11	85,865	23	259,973
47	15	125,379	28	286,079
48	26	189,752	35	394,804
49	14	92,200	29	369,487
 50		101,841	40	448,667
51	16	126,608	33	425,968
52	22	198,932	48	608,875
53	13	119,658	37	513,764
54	17	173,452	49	727,643
55	20	243,716	29	379,609
56	27	253,630	53	738,739
57	14	104,290	64	725,695
58	21	197,422	56	701,924
59	19	204,408	60	821,084
60	26	251,891	53	818,135
61	25	276,399	54	706,878
62	27	260,217	57	629,027
63	30	273,882	76	992,235
64	38	350,618	73	864,759
65	36	387,928	84	983,627
66	35	283,680	79	869,092
67	45	444,379	88	1,070,055
68	40	339,217	98	1,051,185
69	40	396,874	86	854,268
70	40	302,501	72	767,733
71	40	291,874	66	649,708
72	25	207,689	71	742,675
73	34	258,372	78	814,509
74	36	290,284	61	503,096
75	26	160,977	51	469,988
76	21	188,999	42	306,700

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO

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#### THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

## BENEFICIARIES RECEIVING ALLOWANCES UNDER SURVIVORS BENEFIT FUND

	MALE			FEMALE			
AGE	NUMBER		AMOUNT	NUMBER		AMOUNT	
77	15	\$	127,131	48	\$	375,815	
78	15		112,996	45		362,642	
79	29		201,887	44		268,314	
80	31		182,866	41		306,779	
81	10		65,544	46		344,197	
82	10		52,300	41		290,469	
83	12		86,841	39		290,746	
84	13		70,145	36		205,034	
85	10		80,698	45		358,122	
86	13		81,900	35		225,485	
87	4		19,450	37		234,341	
	3		<del></del>			177,279	
89	5		26,032	20		127,735	
90	1		3,315	19		140,385	
91	7		49,224	22		148,245	
92	2		13,426	11		98,883	
.93	5		32,056	6		38,605	
94	1		11,753	4		23,339	
95	1		3,392				
96	1		4,047	2		30,878	
97	1		3,590	1		3,763	
98				1		6,119	
106				1		10,287	
	1 580	•			*	00.150.511	
TOTAL	1,552	\$	11,334,818	2,943	\$	28,153,611	

# TABLE 8A

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## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

# BENEFICIARIES RECEIVING ALLOWANCES UNDER SURVIVORS BENEFIT FUND

	AGE	NUMBER	AMOUNT
	1	2 4	\$ 8,389
	2 3	4	12,524
	3	. 4	21,154
	4	8	33,498
	5	8 18	70,094
	· 6	12 16	61,026
	7	16	97,152
	8	20	97,727
·	9	24	114,166
•	10	· 21	114,027
	11	35	172,097
	12	43	205,244
	13	61	254,063
	14	68	328,967
	15	87	398,005
	16	85	448,410
	17	79	362,713
	18	93	511,322
	' 19	82	437,637
	20	80	472,856
	21	91	473,593
	22	2	12,560
	23	2	7,409
	24	2 1	3,820
	25	3	14,931
	26		5,089
	20	3	31,198
	28	3	35,442
	29	1 3 6 3 5 4	29,227
	30	3	10,860
	31		47,911
	32		35,229
	32	7	53,376
	33 34	4	34,497
	34 35	4	24,411
	35 36	3 5	37,554
		3	51,334
	37	10 8	75,373
	38	<u> </u>	49,434



## TABLE 8A

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

## BENEFICIARIES RECEIVING ALLOWANCES UNDER SURVIVORS BENEFIT FUND

	AGE	NUMBER	AMOUNT
	39	7	\$ 47,352
	40	9	58,204
	41	20	161,492
	42	26	220,804
	43	32	278,902
	44	27	273,974
	45	27	255,110
	46	34	345,838
	47	43	411,458
	48	· 61	584,556
	49	43	461,687
•	50	53	550,508
	51	49	552,576
	52	70	807,807
	53	50	633,422
	54	66	901,095
	55	49	623,325
	56	80	992,369
	57	78	829,985
	58	. 77	899,346
	59	79	1,025,492
	60	79	1,070,026
	61	79	983,277
	62	84	889,244
	63	106	1,266,117
	64	111	1,215,377
	65	120	1,371,555
	66	114	1,152,772
	67	133	1,514,434
	68	133	1,390,402
	69 70	126	1,251,142
	70	112	1,070,234
	71	106	941,582
	72	96	950,364
	73	112	1,072,881
	74	97	793,380
	75	77	630,965
	76	63	495,699

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO



# TABLE 8A

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 1995

## BENEFICIARIES RECEIVING ALLOWANCES UNDER SURVIVORS BENEFIT FUND

AGE	NUMBER	AMOUNT
77	63	\$ 502,946
78	60	475,638
79	73	470,201
80	72	489,645
81	56	409,741
82	51	342,769
83	51	377,587
84	· · · 49	275,179
85	55	438,820
86	48	307,385
87	41	253,791
	29	191,915
89	25	153,767
90	20	143,700
91	29	197,469
92	13	112,309
93	11	70,661
94	5	35,092
95	1	3,392
96	3	34,925
97	2	7,353
98	1	6,119
106	1	10,287
TOTAL	4,495	39,488,429

THE STATE TEACHERS RETIREMENT SYSTEM OF OHIO