ACTUARIAL INTRODUCTION





ACTUARIAL VALUATIONS

Actuarial valuations of the TCRS are performed by an independent actuarial consulting firm to assess the funded status of the system and to determine employer contribution rates for its various components. The valuation performed as of June 30, 2021 set employer rates effective July 1, 2022 through June 30, 2023. The June 30, 2022 valuation established contributions rates beginning July 1, 2023. The Board of Trustees of the system is responsible for adopting the employer contribution rates after reviewing the actuarial results.

FUNDING OF PENSIONS

It is the policy of the state to fund pensions by actuarially-determined contributions which are intended to provide funding for both the normal liability cost and the unfunded actuarial accrued liability cost. This policy seeks to ensure that sufficient assets will be available to pay the benefits as promised by the pension plan.

ACCRUED LIABILITY

Unfunded accrued liability is equal to the excess of the Entry Age Normal Past Service Liability over the valuation assets for each group. A tier approach is utilized with new actuarial gains and losses from each actuarial valuation.

SPECIFICS

Valuations are based on demographic data (employees' ages, salaries and service credits), economic projections (salary increases, interest rates and investment earnings) and decrement estimates (mortality and disability rates).

The economic projections and decrement estimates used for valuation purposes utilized the assumptions recommended by the actuary and adopted by the Board of Trustees based on an actuarial experience study conducted every four years. The earnings rate assumption adopted by the Board is subject to the approval of the Council on Pensions.

QUADRENNIAL EXPERIENCE STUDY

A quadrennial experience study was conducted as of June 30, 2020. The system made adjustments to the mortality assumptions to reflect TCRS experience, including an assumption for future mortality improvement. In addition, the system lowered the long-term inflation assumption, which also lowered other economic assumptions such as the discount rate, COLA and salary scale for all groups. Assumptions developed from the June 30, 2020 experience study were used in each actuarial valuation beginning with the June 30, 2021 valuation.

FUNDING POLICY

The TCRS Board of Trustees adopted a funding policy for TCRS on September 26, 2014. The policy outlines the procurement of actuarial services, the assumptions to be used in the experience study, the components of the actuarial valuation, and performance of an actuarial audit. The funding policy can be found in the Reporting and Investment Policies section of the TCRS website at treasury.tn.gov/tcrs.

ACTUARY'S CERTIFICATION LETTER







November 13, 2023

USI Consulting Group 5301 Virginia Way Suite 400 Brentwood, TN 37027 www.usicg.com Tel: 615.665.1640

Mr. David H. Lillard, Jr.
Chairman, Board of Trustees
Tennessee Consolidated Retirement System
502 Deaderick Street
Nashville, Tennessee 37243-0201

Re: Actuary's Certification Letter

Dear Mr. Lillard:

The purpose of this letter is to certify the actuarial adequacy of contributions being made by the State of Tennessee, Local Education Agencies and participating Political Subdivisions to the Tennessee Consolidated Retirement System and to discuss the approach currently being taken toward meeting the financing objectives of the Plan.

The most recent actuarial valuation for funding purposes completed as of the year ending June 30, 2023 for the Tennessee Consolidated Retirement System was performed as of June 30, 2022. In addition, a valuation for accounting purposes pursuant to GASB 67 and 68 was performed as of June 30, 2022 and was used to satisfy June 30, 2023 reporting date requirements. These valuations were based on a set of actuarial assumptions (described in detail in the section headed "Summary of Actuarial Assumptions and Methods") which was adopted by the Board of Trustees on the recommendation of the actuary after a study of actual experience under the TCRS during the four-year period ending June 30, 2020. Actuarial valuations are performed annually for both funding and accounting purposes.

The Tennessee Consolidated Retirement System implemented a new hybrid plan design for all new employees hired on or after July 1, 2014. Employees hired prior to this date continue to participate in the legacy plans. The funding and accounting valuations reflect this change and provide separate reporting for each plan. There have been no significant changes in the level of benefits provided by the plans since the date of the preceding valuation.

In performing the 2022 valuations, we relied on employee data and asset information provided by the administrative staff of the Tennessee Consolidated Retirement System. In the case of employee data, each individual record was audited for reasonableness and internal consistency, although the validity of the information was not traced to source documents. With respect to plan assets, a general review for consistency with the information furnished for prior valuations was performed.

Property & Casualty \cdot Employee Benefits \cdot Personal Risk \cdot Retirement Consulting The USI ONE Advantage®



ACTUARY'S CERTIFICATION LETTER (CONTINUED)



Certain tables presented in the Annual Comprehensive Financial Report are derived from the 2022 actuarial valuation reports prepared by USI Consulting Group. The tables were prepared by the staff of the Tennessee Consolidated Retirement System and examined by our firm. These tables include the following –

Financial Section

- Schedules of Changes in Net Pension Liability
- Schedules of Net Pension Liability
- Schedule of Contributions

Actuarial Section

- Summary of Actuarial Assumptions and Methods
- Actuarial Data
- Actuarial Balance Sheet
- Short-Term Solvency Test
- Summary of Accrued and Unfunded Accrued Liabilities
- Selected Actuarial Funding Information
- Analysis of Financial Experience

The Schedule of Retired Member Activity in the Actuarial Data section was prepared by our firm using information gathered from prior actuarial valuations.

The 2022 actuarial valuations were prepared in accordance with accepted actuarial standards, including the overall appropriateness of the assumptions and methods. The assumptions and methods used for funding and accounting purposes meet the parameters set by Actuarial Standards of Practice as promulgated from time to time by the Actuarial Standards Board. The funding valuations were also in accordance with the pension funding policy adopted by the TCRS Board of Trustees. In addition, the 2022 actuarial valuations for accounting purposes were prepared in accordance with the Governmental Accounting Standards Board Statements 67 and 68. I am a Member of the American Academy of Actuaries and a consulting actuary with USI Consulting Group of Brentwood, Tennessee, with experience in performing valuations for public retirement systems and have met the Qualification Standards of the American Academy of Actuaries. All calculations were performed either by me or by other qualified actuaries under my direct supervision.

Based upon the valuation results and the contribution rates adopted by the Board of Trustees, it is our opinion that the Tennessee Consolidated Retirement System continues to fund its liabilities in accordance with standard actuarial principles of advance funding, continuing a program first adopted in 1975.

Sincerely,

Justin C. Thacker, F.S.A

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS





The following assumptions were adopted by the Board of Trustees for use with actuarial valuations beginning with the July 1, 2021 valuation. The assumptions used are based on the consulting actuary's recommendations resulting from the June 30, 2020 actuarial experience study.

General Actuarial Methods

- Actuarial Cost Method (Entry Age Normal)

 Unfunded accrued liability tiers by year
 are being amortized over various periods
 not to exceed 20 years using the level dollar
 amortization method in accordance with
 the funding policy. The amortization period
 related to local government unfunded accrued
 liabilities varies by entity.
- Treatment of Actuarial Gains and Losses Under the Entry Age Normal method, a tier approach is utilized with new actuarial gains and losses from each actuarial valuation. Each new tier of unfunded accrued liabilities is amortized over a period in accordance with the TCRS funding policy.
- Asset Valuation Method Assets are valued on a basis which reflects a ten-year moving average of the fair value. The actuarial value of assets must be within 80-120 percent of the fair value of assets.
- Valuation Data The administrative staff of TCRS furnishes the actuary with demographic data relating to the active life members and the retired life members. The fair value of system assets are also provided by retirement system staff. All data is reviewed for reasonableness and consistency from year to year, but is not audited by the actuary.
- **Post-Retirement Adjustments** Retirement benefits are assumed to increase at the geometric rate of 2.125 percent annually, reflecting the 1997 adoption of compounded cost-of-living adjustments.

Economic Assumptions

- *Investment Return Rate* 6.75 percent per annum, compounded annually.
- Employee Salary Increases Graded scale that reflects the plan experience pattern of declining escalation rates as participant ages increase. No explicit assumption is made regarding the portion attributable to the effects of inflation on salaries. Active membership is assumed to remain constant. For the legacy pension plan, increase in Social Security Wage Base 2.75 percent annual increase.



SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS (CONTINUED)



Decrement Assumptions

Post-Retirement Mortality — Mortality assumptions utilize the RP-2014 industry standard base table for annuitants adjusted for TCRS experience, with mortality improvements projected six years beyond each actuarial valuation date for the Legacy Plan and projected generationally for the Hybrid Plan.

Pre-Retirement Mortality — Mortality assumptions utilize the RP-2014 industry standard base table for non-annuitants adjusted for TCRS experience, with mortality improvements projected fifteen years beyond each actuarial valuation date for the Legacy Plan and projected generationally for the Hybrid Plan.

Withdrawal Due to Disability — Sample rates of disability based on experience:

Male										
Age	Teachers	State	Political Subdivisions							
Age 30	0.01%	0.07%	0.03%							
Age 40	0.08%	0.16%	0.08%							
Age 50	0.17%	0.27%	0.38%							

Female										
Age	Teachers	State	Political Subdivisions							
Age 30	0.01%	0.04%	0.03%							
Age 40	0.08%	0.14%	0.08%							
Age 50	0.17%	0.33%	0.38%							

Turnover Assumption — Tables for probabilities of separation due to termination of employment are developed utilizing a "two-year select and ultimate" approach.

Teachers										
	1st Year Employment	2nd Year Employment	Ultimate							
Male										
Age 30	16.2%	13.5%	6.0%							
Age 40	16.2%	13.5%	2.0%							
Age 50	17.8%	14.2%	2.0%							
Female										
Age 30	16.2%	13.5%	7.6%							
Age 40	16.2%	13.5%	2.3%							
Age 50	17.8%	14.2%	1.6%							

State									
	1st Year Employment	2nd Year Employment	Ultimate						
Male									
Age 30	23.0%	18.6%	10.5%						
Age 40	18.6%	13.8%	2.8%						
Age 50	14.8%	11.1%	2.4%						
Female									
Age 30	23.0%	18.6%	11.4%						
Age 40	18.6%	13.8%	3.8%						
Age 50	14.8%	11.1%	2.6%						

Political Subdivisions								
	1st Year Employment	2nd Year Employment	Ultimate					
Male								
Age 30	21.0%	16.1%	7.4%					
Age 40	18.4%	14.3%	3.5%					
Age 50	16.3%	11.7%	2.8%					
Female								
Age 30	21.0%	16.1%	11.1%					
Age 40	18.4%	14.3%	5.4%					
Age 50	16.3%	11.7%	3.8%					
			(continued,					



SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS (CONTINUED)



Retirement — The probabilities of retirement for members eligible to retire:

Male									
Age	Teachers	State	Political Subdivisions						
Age 60	15.0%	8.5%	10.5%						
Age 61	16.0%	11.0%	15.0%						
Age 62	22.0%	16.0%	20.0%						
Age 63	16.0%	12.0%	17.5%						
Age 64	18.0%	14.0%	17.5%						
Age 65	35.0%	22.0%	24.0%						
Age 70	16.0%	15.5%	18.0%						
Age 75	100.0%	100.0%	100.0%						

Female								
Age	Teachers	State	Political Subdivisions					
Age 60	17.0%	9.0%	11.0%					
Age 61	20.0%	12.0%	13.0%					
Age 62	26.0%	18.0%	18.0%					
Age 63	19.5%	12.0%	16.0%					
Age 64	24.0%	14.0%	16.0%					
Age 65	37.5%	22.0%	22.0%					
Age 70	34.0%	17.0%	19.0%					
Age 75	100.0%	100.0%	100.0%					

In addition, for members younger than age 60, a loading factor of 12.5 percent for teachers, 9.0 percent for state employees, and 6.5 percent for political subdivision employees is added during the year the member is first eligible for unreduced retirement. After age 60, for those members with 15 or more years of service, a 7.0 percent load is added for teachers and 3.0 percent for state employees and political subdivision employees.





SCHEDULE OF ACTIVE MEMBER VALUATION DATA

Acti	ıarial Valuation		Annual Pa				erage Annual Percentage Increase
	July 1	Number	Thousa	ands	Average Ar	nnual Pay	In Average Pay
2011	SETHEEPP	135,588	\$	6,058,348	\$	44,682	0.24%
	PSPP	79,488		2,354,939		29,626	1.14%
2013	SETHEEPP	132,900		6,236,930		46,929	2.48%
	PSPP	77,064		2,374,948		30,818	1.99%
2015	TLPP	69,125		3,542,059		51,241	0.84%
	TRP	5,524		225,219		40,771	N/A
	PERP	134,426		4,987,326		37,101	1.70%
2016	TLPP	65,458		3,465,946		52,949	3.33%
	TRP	11,079		464,122		41,892	2.75%
	PERP	136,524		5,241,126		38,390	3.47%
2017	TLPP	62,320		3,414,741		54,794	3.48%
	TRP	15,607		674,906		43,244	3.23%
	PERP	139,397		5,566,390		39,932	4.02%
2018	TLPP	59,487		3,460,664		58,175	6.17%
	TRP	19,634		905,280		46,108	6.62%
	PERP	140,238		5,816,152		41,473	3.86%
2019	TLPP	56,294		3,248,210		57,701	-0.81%
	TRP	23,345		1,068,265		45,760	-0.75%
	PERP	142,259		6,045,602		42,497	2.47%
2020	TLPP	53,582		3,219,651		60,088	4.14%
	TRP	26,418		1,251,899		47,388	3.56%
	PERP	143,024		6,287,911		43,964	3.45%
2021	TLPP	50,944		3,171,704		62,259	3.61%
	TRP	29,203		1,431,754		49,028	3.46%
	PERP	142,448		6,360,677		44,653	1.57%
2022	TLPP	48,108		3,154,426		65,570	5.32%
	TRP	32,866		1,697,829		51,659	5.37%
	PERP	142,746		6,765,698		47,397	6.15%

SCHEDULE OF RETIRED MEMBER VALUATION DATA

Act	uarial Valuation July 1	A: Number	nnual Allo Thous	owances In sands	Average Annual Allowances		Average Annual Percentage Increase In Annual Allowances
2011	SETHEEPP	83,041	\$	1,457,974	\$	17,557	
	PSPP	33,544		241,910		7,212	3.61%
2013	SETHEEPP	90,414		1,682,792		18,612	2.96%
	PSPP	37,157		286,338		7,706	3.37%
2015	TLPP	47,979		1,103,163		22,993	1.30%
	TRP	0		0		0	N/A
	PERP	94,704		1,143,883		12,079	1.60%
2016	TLPP	49,336		1,142,552		23,159	0.72%
	TRP	1		0		0	N/A
	PERP	100,011		1,218,115		12,180	0.84%
2017	TLPP	50,230		1,187,624		23,644	2.09%
	TRP	2		2		797	N/A
	PERP	103,277		1,286,131		12,453	2.24%
2018	TLPP	50,922		1,227,139		24,098	1.92%
	TRP	3		2		801	0.50%
	PERP	106,448		1,353,198		12,712	2.08%
							(continued)

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2019	TLPP	52,400	\$ 1,285,073	\$ 24,524	1.77%
	TRP	12	22	1,830	128.35%
	PERP	110,655	1,429,232	12,916	1.60%
2020	TLPP	52,913	1,324,475	25,031	2.07%
	TRP	25	53	2,109	15.26%
	PERP	113,475	1,494,962	13,174	2.00%
2021	TLPP	53,785	1,361,929	25,322	1.16%
	TRP	53	115	2,177	3.32%
	PERP	116,559	1,550,549	13,303	0.97%
2022	TLPP	54,730	1,424,399	26,026	2.78%
	TRP	120	319	2,655	21.98%
	PERP	120,438	1,647,136	13,676	2.81%

SCHEDULE OF RETIRED MEMBER ACTIVITY

		Adde	l to Rolls	Removed	l from Rolls	Rolls - End of Year		Percentage Increase	e Average	
Act	uarial Valuation		Annual		Annual		Annual		Annual	
	July 1	No.	Allowances	No.	Allowances	No.	Allowances	Allowances	Allowances	
2011	SETHEEPP	10,090	\$ 233,149	4,359	\$ 56,689	83,041	\$ 1,457,974	13.77%	\$ 17,557	
	PSPP	4,955	47,632	1,976	11,048	33,544	241,910	17.82%	7,212	
2013	SETHEEPP	12,199	289,437	4,826	64,619	90,414	1,682,792	15.42%	18,612	
	PSPP	5,858	56,987	2,245	12,559	37,157	286,338	18.37%	7,706	
2015	TLPP	6,582	167,537	2,376	45,115	47,979	1,103,163	12.48%	22,993	
	TRP	0	0	0	0	0	0	N/A	N/A	
	PERP	15,885	203,829	4,979	48,335	94,704	1,143,883	15.73%	12,079	
2016	TLPP	2,305	58,165	948	18,776	49,336	1,142,552	3.57%	23,159	
	TRP	1	0	0	0	1	0	N/A	0	
	PERP	7,884	100,366	2,577	26,134	100,011	1,218,115	6.49%	12,180	
2017	TLPP	2,137	69,114	1,243	24,042	50,230	1,187,624	3.94%	23,644	
	TRP	1	1	0	0	2	2	237.95%	797	
	PERP	6,538	102,361	3,272	34,345	103,277	1,286,131	5.58%	12,453	
2018	TLPP	1,805	62,874	1,113	23,359	50,922	1,227,139	3.33%	24,098	
	TRP	1	0	0	0	3	2	50.75%	801	
	PERP	6,127	99,291	2,956	32,224	106,448	1,353,198	5.21%	12,712	
2019	TLPP	2,671	83,451	1,193	25,517	52,400	1,285,073	4.72%	24,524	
	TRP	9	20	0	0	12	22	813.41%	1,830	
	PERP	7,458	112,062	3,251	36,028	110,655	1,429,232	5.62%	12,916	
2020	TLPP	1,765	66,768	1,252	27,366	52,913	1,324,475	3.07%	25,031	
	TRP	13	31	0	0	25	53	140.12%	2,109	
	PERP	6,122	103,165	3,302	37,435	113,475	1,494,962	4.60%	13,174	
2021	TLPP	2,347	72,087	1,475	34,633	53,785	1,361,929	2.83%	25,322	
	TRP	28	62	0	0	53	115	118.84%	2,177	
	PERP	7,175	103,205	4,091	47,618	116,559	1,550,549	3.72%	13,303	
2022	TLPP	2,394	97,093	,	34,623	54,730	1,424,399	4.59%	26,026	
	TRP	71	212	4	8	120	319	176.18%	2,655	
	PERP	8,121	145,705	4,242	49,118	120,438	1,647,136	6.23%	13,676	

SETHEEPPP - State Employees, Teachers, Higher Education Employees Pension Plan

PSPP - Political Subdivisions Pension Plan

TLPP - Teacher Legacy Pension Plan TRP - Teacher Retirement Plan PERP - Public Employee Retirement Plan

Legislative changes modified the plans presented beginning July 1, 2014. The July 1, 2015 Actuarial Valuation was the first performed after this change. Note: Timing differences exist between the data utilized for statistical information and that used for actuarial valuation purposes.





ACTUARIAL BALANCE SHEET as of July 1, 2022

	Teacher Legacy Pension Plan		Re	Teacher Retirement Plan		Public Employee Retirement Plan		Total
ASSETS								
Present assets creditable to:								
Employer accumulation fund	\$	24,569,331,124	\$	218,834,970	\$	29,349,626,498	\$	54,137,792,592
Members' accumulation fund		3,882,928,675		409,264,924		2,076,171,440		6,368,365,039
Total present assets		28,452,259,799		628,099,894		31,425,797,938		60,506,157,631
Present value of prospective contributions payable to:								
Employer accumulation fund								
Normal		1,257,540,740		493,557,480		3,518,018,448		5,269,116,668
Accrued liability		0		38,026,876		1,864,482,908		1,902,509,784
Total employer accumulation		1,257,540,740		531,584,356		5,382,501,356		7,171,626,452
Members' accumulation fund		1,485,554,290		1,220,250,819		1,798,872,477		4,504,677,586
Total prospective contributions		2,743,095,030	_	1,751,835,175		7,181,373,833		11,676,304,038
TOTAL ASSETS	\$	31,195,354,829	\$	2,379,935,069	\$	38,607,171,771	\$	72,182,461,669
LIABILITIES								
Present value of prospective benefits payable on account of:								
Present retired members and beneficiaries	\$	15,841,216,948	\$	4,514,944	\$	17,755,111,711	\$	33,600,843,603
Present active members		14,598,044,492		2,295,399,406		18,176,391,632		35,069,835,530
Former members		756,093,389		80,020,719		2,675,668,428		3,511,782,536
TOTAL LIABILITIES	\$	31,195,354,829	\$	2,379,935,069	\$	38,607,171,771		72,182,461,669
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Short-Term Solvency Test

The financing objective of the Tennessee Consolidated Retirement System is to pay for the benefits provided by the plan through contributions that remain approximately level from year to year as a percentage of payroll, except that the strategy to fund the unfunded accrued liability is to make level-dollar payments over an established amortization period. A short-term solvency test is one means of checking a system's progress under its funding program. In a short-term solvency test, the plan's present assets are compared with: (1) active member contributions on deposit; (2) the liabilities for

future benefits to present retired lives; and (3) the liabilities for service already rendered by active members. In a system that has been following the approach of level percent of payroll financing for some time, the liabilities for active member contributions on deposit (liability 1) and the liabilities for future benefits to present retired lives (liability 2) should be fully covered by present assets. In addition, the liabilities for service already rendered by active members (liability 3) should be partially covered by the remainder of present assets. Generally, if the system has been using level cost financing, the funded portion of liability 3 will increase over time.

Dollar Amounts Expressed in Millions

		Actu	arial A	Accrued Liabilitie	s for:				of Actuaria es Covered	
	Actuarial Valuation July 1	(1) e Member ributions		(2) Retirees and eneficiaries		(3) ive Members oyer Financed)	luation Assets	(1)	(2)	(3)
2013	SETHEEP	\$ 3,759.9	\$	18,747.4	\$	11,616.3	\$ 31,851.0	100%	100%	80%
	PSPP	1,196.3		3,075.7		3,517.8	 7,398.3	100%	100%	89%
	Total	\$ 4,956.2	\$	21,823.1	\$	15,134.1	\$ 39,249.3	100%	100%	82%
2015	TLPP	\$ 3,340.9	\$	12,534.5	\$	5,433.7	\$ 21,040.2	100%	100%	95%
	TRP	10.4		0		4.3	15.7	100%	100%	100%
	PERP	 1,753.7		12,202.0		9,292.9	21,682.8	100%	100%	83%
	Total	\$ 5,105.0	\$	24,736.5	\$	14,730.9	\$ 42,738.7	100%	100%	88%
2016	TLPP	\$ 3,229.3	\$	12,858.9	\$	5,728.3	\$ 21,681.8	100%	100%	98%
	TRP	32.6		0		15.0	49.9	100%	100%	100%
	PERP	1,606.6		12,944.2		9,554.9	22,512.8	100%	100%	83%
	Total	\$ 4,868.5	\$	25,803.1	\$	15,298.2	\$ 44,244.5	100%	100%	89%
2017	TLPP	\$ 3,351.8	\$	13,485.7	\$	6,003.4	\$ 22,330.7	100%	100%	92%
	TRP	66.0		0		32.4	96.1	100%	100%	93%
	PERP	1,640.8		13,940.9		10,231.2	23,379.2	100%	100%	76%
	Total	\$ 5,058.6	\$	27,426.6	\$	16,267.0	\$ 45,806.0	100%	100%	82%
2018	TLPP	\$ 3,509.6	\$	13,754.9	\$	6,412.1	\$ 23,172.7	100%	100%	92%
	TRP	111.5		0		56.7	159.9	100%	100%	85%
	PERP	1,706.8		14,539.1		10,618.9	24,520.1	100%	100%	78%
	Total	\$ 5,327.9	\$	28,294.0	\$	17,087.7	\$ 47,852.7	100%	100%	80%
2019	TLPP	\$ 3,565.1	\$	14,317.1	\$	6,123.4	\$ 24,426.8	100%	100%	100%
	TRP	167.6		0.3		76.8	243.6	100%	100%	99%
	PERP	1,793.1		15,281.4		10,740.5	 26,092.5	100%	100%	84%
	Total	\$ 5,525.8	\$	29,598.8	\$	16,940.7	\$ 50,762.9	100%	100%	92%
2020	TLPP	\$ 3,717.4	\$	14,552.7	\$	6,423.8	\$ 25,611.7	100%	100%	100%
	TRP	235.4		0.7		108.0	346.9	100%	100%	100%
	PERP	1,856.0		15,831.9		11,162.4	27,609.7	100%	100%	89%
	Total	\$ 5,808.8	\$	30,385.3	\$	17,694.2	\$ 53,568.3	100%	100%	93%
2021	TLPP	\$ 3,805.0	\$	15,248.4	\$	7,683.1	\$ 27,063.7	100%	100%	100%
	TRP	315.1		1.6		186.3	476.8	100%	100%	86%
	PERP	1,983.4		16,750.0		12,582.2	 29,427.5	100%	100%	85%
	Total	\$ 6,103.5	\$	32,000.0	\$	20,451.6	\$ 56,968.0	100%	100%	91%
2022	TLPP	\$ 3,882.9	\$	15,841.2	\$	8,035.4	\$ 28,452.3	100%	100%	100%
	TRP	409.3		4.5		252.3	628.1	100%	100%	85%
	PERP	2,076.2		17,755.1		13,459.0	31,425.8	100%	100%	86%
	Total	\$ 6,368.4	\$	33,600.8	\$	21,746.7	\$ 60,506.2	100%	100%	94%



SUMMARY OF ACCRUED AND UNFUNDED ACCRUED LIABILITIES



The unfunded accrued liability represents the excess of the accrued actuarial liability over the actuarial value of assets. For funding purposes, the Board of Trustees of TCRS has adopted the entry age normal method.

Under this method, the unfunded accrued liability is being funded by level-dollar contributions. The actuarially-determined contributions are intended to provide funding for both the normal cost and the unfunded actuarial liability cost.

While concern is generally expressed regarding the dollar amount of the unfunded accrued liability, an analysis should also include the method being used to fund this liability as well as a review of this liability expressed as a percentage of active member payroll. The smaller the ratio of unfunded liabilities to the active member payroll, the stronger the system. A review of this ratio over a period of years will give an indication of whether the system is becoming financially stronger or weaker with respect to its unfunded liabilities.

SUMMARY OF ACCRUED AND UNFUNDED ACCRUED LIABILITIES

Dollar Amounts Expressed in Millions

Actuarial Valuation Jun 30	Actuarial Accrued Liabilities (AAL)		Valuation		Ratio Assets to AAL	Unfunded Actuarial Accrued Liabilities (UAAL)			ive Member Payroll	UAAL as a Percentage of Active Member Payroll	
2013	_					_					
SETHEEP	\$	34,123.6	\$	31,851.0	93.34%	\$	2,272.6	\$	6,236.9	36.44%	
PSPP	\$	7,789.8	\$	7,398.3	94.97%	\$	391.5	\$	2,375.0	16.49%	
2015	_					_					
TLPP	\$	21,309.0	\$	21,040.2	98.74%	\$	268.8	\$	3,542.1	7.59%	
TRP	\$	14.7	\$	15.7	106.80%	\$	(1.0)	\$	225.2	-0.44%	
PERP	\$	23,248.7	\$	21,682.8	93.26%	\$	1,565.9	\$	4,987.3	31.40%	
2016											
TLPP	\$	21,816.5	\$	21,681.8	99.38%	\$	134.7	\$	3,465.9	3.89%	
TRP	\$	47.6	\$	49.9	104.83%	\$	(2.3)	\$	464.1	-0.50%	
PERP	\$	24,105.8	\$	22,512.8	93.39%	\$	1,593.0	\$	5,241.1	30.39%	
2017											
TLPP	\$	22,840.9	\$	22,330.7	102.28%	\$	(510.2)	\$	3,414.7	-14.94%	
TRP	\$	98.4	\$	96.1	97.66%	\$	2.3	\$	674.9	0.34%	
PERP	\$	25,812.9	\$	23,379.2	90.57%	\$	2,433.7	\$	5,566.4	43.72%	
2018											
TLPP	\$	23,676.6	\$	23,172.7	97.87%	\$	503.9	\$	3,460.7	14.56%	
TRP	\$	168.2	\$	159.9	95.09%	\$	8.3	\$	905.3	0.91%	
PERP	\$	26,864.8	\$	24,520.1	91.27%	\$	2,344.7	\$	5,816.2	40.31%	
2019											
TLPP	\$	24,005.6	\$	24,426.8	101.75%	\$	(421.1)	\$	3,248.2	-12.97%	
TRP	\$	244.7	\$	243.6	99.55%	\$	1.1	\$	1,068.3	0.10%	
PERP	\$	27,815.0	\$	26,092.5	93.81%	\$	1,722.5	\$	6,045.6	28.49%	
2020											
TLPP	\$	24,693.9	\$	25,611.7	103.72%	\$	(917.8)	\$	3,219.7	-28.51%	
TRP	\$	344.2	\$	346.9	100.79%	\$	(2.7)	\$	1,251.9	-0.22%	
PERP	\$	28,850.3	\$	27,609.7	95.70%	\$	1,240.6	\$	6,287.9	19.73%	
2021											
TLPP	\$	26,736.5	\$	27,063.7	101.22%	\$	(327.2)	\$	3,171.7	-10.32%	
TRP	\$	503.0	\$	476.8	94.79%	\$	26.2	\$	1,431.8	1.83%	
PERP	\$	31,315.6	\$	29,427.5	93.97%	\$	1,888.0	\$	6,360.7	29.68%	
2022	•	•		,			,		,		
TLPP	\$	27,759.5	\$	28,452.3	102.50%	\$	(692.7)	\$	3,154.4	-21.96%	
TRP	\$	666.1	\$	628.1	94.29%	\$	38.0	\$	1,697.8	2.24%	
PERP	\$	33,290.3	\$	31,425.8	94.40%	\$	1,864.5	\$	6,765.7	27.56%	
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SELECTED ACTUARIAL FUNDING INFORMATION

Actuarial	Earnings	Salary		Unfunde	ed Liability (Asset)	State Amortization		
Valuation Year	Assumptions	Assumptions		SETHEEP	PSPP	Period		
2009	7.50%	4.75% (2)	\$	2,719,767,478 \$	839,320,076	20		
2011	7.50%	4.75% (2)		2,589,446,292	799,102,966	9		
2013	7.50%	4.25% (2)		2,272,526,399	391,589,555	13		

Actuarial		Earnings	Salary		Unfu	nde	State Amortization				
Valuation Year		Assumptions	Assumptions		TLPP	TRP		PERP		Period	
2015	(3)	7.50%	4.25% (2)	\$	268,857,872	\$	(1,092,784)	\$	1,565,808,774	14.37	(1)
2016		7.50%	4.25% (2)		134,716,133		(2,323,148)		1,592,928,253	8.46	(1)
2017		7.25%	4.00% (2)		510,205,267		2,307,714		2,433,632,446	13.64	(1)
2018		7.25%	4.00% (2)		503,884,213		8,253,746		2,344,674,537	12.85	(1)
2019		7.25%	4.00% (2)		(421,138,310)		1,094,161		1,722,513,721	9.51	(1)
2020		7.25%	4.00% (2)		(917,817,386)		(2,732,885)		1,240,602,233	7.67	(1)
2021		7.25%	4.00% (2)		(327,206,312)		26,192,546		1,888,026,104	10.01	(1)
2022		6.75%	4.00% (2)		(692,713,941)		38,026,876		1,864,482,908	7.48	(1)

Notes:

(2) Graded scale

(3) The information in this schedule is based upon legislative changes. The legislative changes changed the plans presented beginning July 1, 2014.

⁽¹⁾ At each actuarial valuation, the new tier of unfunded liability is established over a period not to exceed 20 years per the TCRS funding policy. The tier for prior years is amortized over a period not to exceed the remaining period.







GAIN AND LOSS ANALYSIS, JUNE 30, 2022 VALUATION

	Consolidated State	Teacher
Contribution Rate	22.03%	8.69%
Effective Employer Contribution Rate Pursuant to 2021 Valuation		
Investment Results	-1.32%	-1.37%
Salary Increases	0.35%	0.31%
New Entrants: Since the Legacy Plan closed to new entrants effective June 30, 2014, there is no impact on the contribution rate for new entrants	0.00%	0.00%
Cost of Living Escalation	0.47%	0.39%
Contribution Rate Change Delay	0.14%	-0.15%
Effect of turnover on total payroll	0.73%	0.03%
Other	-0.19%	-0.18%
Subtotal	0.18%	-0.97%
Additional \$250 million contribution	-1.31%	0.00%
End of prior amortization	0.00%	-3.25%
Re-amortization of unfunded liability	1.20%	2.34%
Effective Employer Contribution Rate Pursuant to 2022 Valuation	22.10%	6.81%

ACTUARIAL VS. RECOMMENDED CONTRIBUTION RATES

The Board adopted the contribution rates as recommended by the actuary.





HISTORY AND ADMINISTRATION

The TCRS was established in 1972 by an Act of the Tennessee General Assembly. Seven existing retirement systems were consolidated to provide retirement, disability and death benefits to state employees, public school teachers, higher education employees and the employees of participating local governments. State laws governing the plan may be found in Chapters 34-37, 39 of Title 8, Tennessee Code Annotated. Amendments to the plan can only be made by legislation enacted by the General Assembly of the State of Tennessee.

A 20-member Board of Trustees has the responsibility to manage and oversee the operation of the consolidated system. The Board consists of nine ex-officio members from the executive, legislative and judicial branches of state government, nine representatives of the active TCRS membership and two representatives for retirees. Employee representation consists of three teachers, one from each grand division of the state; two state employees from departments other than those represented by ex-officio members; three representatives of local governments; one public safety officer; one retired state employee representative; and one retired teacher representative. Local government representatives are appointed for two-year terms by each of the following organizations: the Tennessee County Services Association, the Tennessee Municipal League and the Tennessee County Officials Association. All employee representatives must be vested members of TCRS.

TCRS is administered by the Treasury Department under the legislative branch of state government. By state law, the State Treasurer serves as chairman of the Board of Trustees and as custodian of the funds of the system. The Director of the retirement system is appointed by the Treasurer and serves as the chief administrative officer of the plan.

The state is responsible for the pension cost of state employees; pension costs for teachers are the responsibility of the local education agencies in Tennessee; costs for the participation of local government employees are paid by political subdivisions. Administrative expenses are paid from employers' account balances. The operating budget is funded through fees charged to the employer.

MEMBERSHIP

Membership in the retirement system is a condition of employment for full-time state employees, K-12 teachers, higher education general employees and the employees of participating local governments. Membership is optional for part-time state employees and the part-time employees of political subdivisions which have authorized such coverage.

Interim teachers and part-time teachers have optional membership. The exempt faculty and staff of institutions of higher education may elect participation in either TCRS or an optional retirement program (ORP), a defined contribution plan for higher education faculty.

State employees, higher education employees and K-12 public school teachers hired after June 30, 2014, will participate in a Hybrid Pension Plan for State Employees and Teachers.

CONTRIBUTIONS

TCRS membership became noncontributory on July 1, 1981 for most state employees, teachers in state supported institutions of higher education and teachers employed in the Department of Education. At that time, the contributions, up to 5.0 percent of compensation payable to these employees, were assumed by the state, but this amount continued to be credited to the individual members' accounts from employer funds. State employees hired after July 1, 1981 join TCRS as noncontributory members with no funds credited to their individual accounts. Public school teachers contribute at a rate of 5.0 percent of gross salary. State employees, teachers in state supported institutions of higher education and teachers employed by the Department of Education hired after June 30, 2014, contribute at a rate of 5.0 percent of gross salary.

PLAN SUMMARY (CONTINUED)





Participating political subdivisions may either adopt noncontributory retirement provisions or require employee contributions, at 2.5 percent or 5.0 percent of salary. The contribution rate for local government employees is 5.0 percent up to the Social Security wage base and 5.5 percent above that base, unless the employing government has authorized a level 5.0 percent rate.

Individual accounts are maintained for all contributory members with interest credited annually at a rate of 5.0 percent. Since TCRS is a defined benefit plan, benefits are based upon the member's average final compensation and years of creditable service. The member's account balance including interest accrued has no bearing on the monthly benefit amount payable at retirement. Account balances plus interest are fully refundable upon termination of service or death.

Contributory members are covered by Section 414(h) of the Internal Revenue Code. Under this provision, retirement contributions are made on a tax-deferred basis, with income tax due only when contributions are returned to members as benefits or refunds. Political subdivisions may adopt the 414(h) provision for their employees.

The state also makes contributions on behalf of higher education faculty members who select membership in the ORP. These contributions are equal to 10 percent of salary up to Social Security wage base and 11 percent of any excess salary.

For ORP participants hired after June 30, 2014, the state contributes 9.0 percent of salary to the ORP. The employee contributes 5.0 percent of gross salary to the ORP.

BENEFITS

General

TCRS provides three valuable benefits to its members: disability, death and service retirement benefits. Disability benefits are available to qualified TCRS members who become totally and permanently disabled before meeting the requirements for service retirement. Two types of disability retirement are available: ordinary and accidental.

To qualify for ordinary disability, a member must have a minimum of five years of TCRS service credit. The ordinary disability benefit is equal to 90 percent of what the member would receive under service retirement. If a disabled retiree has less than 20 years of service credit, the service is projected to normal retirement age (age 60 for legacy plan members or age 65 for hybrid plan members) or 20 years, whichever comes first. When service is projected, the actual and projected service combined cannot exceed 20 years. If the member's actual service credit exceeds 20 years, the benefit is based on actual service only.

There is no minimum service requirement to qualify for an accidental disability benefit. However, the disability must be the result of a job-related accident that occurs without negligence on the part of the member during the performance of duty. For members joining TCRS on or after July 1, 1997, accidental disability benefits are determined in the same manner as ordinary disability using the projection of service method. Disability benefits are increased by 5.0 percent for state employees, teachers and employees of participating political subdivisions which have authorized the 5.0 percent benefit improvement. The accidental benefit is adjusted if the member's combined benefits from Social Security and/or workers' compensation exceed 75 percent of his AFC.

PLAN SUMMARY (CONTINUED)





One of several death benefits may be payable to the designated beneficiary of an active member who dies prior to retirement. The type of death benefit payable will be determined by whether or not death occurred while in service, who is named as beneficiary and the member's length of service.

A member may designate one or more persons, his estate, an institution or any combination of such as his beneficiary. However, estates and institutions are only eligible for a lump-sum refund of the member's accumulated contributions and interest unless one of the beneficiaries named is the surviving spouse. Other death benefits offered by TCRS include a 100 percent Joint and Surviving Spouse Annuity for certain vested members, a 100 percent Joint and Survivor Annuity for any beneficiary under certain conditions and a Line-of-Duty Benefit. Any beneficiary of a member who had ten years of service and who is eligible for a lump-sum death benefit may elect a benefit to be paid over ten years.

Legacy Plan for Members Before July 1, 2014

All members hired prior to July 1, 2014, with the exception of state judges, joining TCRS after 1976 entered the same membership group. The benefit formula for this group provides 1.5 percent of AFC computed over five years for each year of service credit. If a member's AFC exceeds the Social Security integration level (SSIL) applicable at retirement, the formula provides an additional .25 percent of the amount of the excess for each service year. These benefits are increased by 5.0 percent for state employees, teachers and employees of participating political subdivisions which have authorized the 5.0 percent benefit improvement. State judges joining TCRS after September 1, 1990 become Group IV members. The benefit formula for Group IV members is 2.5 percent of AFC computed over five years for each year of service credit.

Members become eligible for regular service retirement at age 60 if vested or at any age with 30 years of service. Vested members are eligible for reduced early retirement benefits when they have reached age 55 or have completed 25 years of service. Members joining TCRS after June 30, 1979 attain vesting rights after five years of service; the vesting period for members who joined prior to July 1, 1979 is four years. Five-year vesting and 25-year retirement are benefits that are optional to local governments. Otherwise, vesting for local governments is ten years of service.

Hybrid Plan for Members After June 30, 2014

State employees, higher education employees and K-12 teachers, with the exception of state judges, the State Attorney General, elected District Attorneys General, and elected Public Defenders, becoming members after June 30, 2014, enter the same membership group. The benefit formula for this group provides 1.0 percent of AFC computed over five years for each year of service credit. The benefit formula for State judges, the State Attorney General, elected District Attorneys General, and elected Public Defenders provides 1.6 percent of AFC computed over five years for each year of service credit. Local governments have the option to join the State and Teacher Hybrid Retirement Plan. The hybrid plan also has a defined contribution component.

Members become eligible for regular service retirement at age 65 if vested or the Rule of 90. The Rule of 90 refers to a combination of age and service that total 90. Vested members are eligible for reduced early retirement benefits at age 60 if vested or the Rule of 80. Members attain vesting rights after five years of service.

SERVICES FOR ACTIVE AND RETIRED MEMBERS





SERVICES FOR ACTIVE MEMBERS

TCRS provides a number of services for active members through its various sections. Member self-service is available at <u>mytcrs.com</u>. Detailed member information, salary and service history, and the ability to apply for retirement benefits is available on the secured portal.

Outreach

- TCRS contracts with Empower Retirement Services to conduct employee presentations on all aspects of the retirement system.
- Employer seminars are conducted annually to educate payroll officers on legislation affecting TCRS and inform them of the employer contribution rates effective for the next fiscal year.

Membership

- Comprehensive membership statements are provided to all members annually at <u>myters.com</u>.
- Welcome packets are mailed to all new members.
- Membership guides are available to members on the TCRS website.
- Member self-service can be accessed at <u>myters.com</u> in order to update contact and beneficiary information.

Prior Service

- An automated calculation and eligibility system generates billings for members who wish to establish prior service.
- An installment program is available to purchase certain types of prior service.
- Prior Service may be purchased with a rollover from a tax-deferred 401(a) plan, 401(k) plan, 403(b) plan, 457 plan or a traditional or Roth IRA.

Benefits

- RetireReady TN website TCRS and Deferred Compensation Information
- Customer Service Call Center
- Counseling Services Retirement Counselors available to meet in all regions of the state

SERVICES FOR RETIRED MEMBERS

A number of services are made available to TCRS retirees.

- Retiree identification cards
- Semiannual retiree newsletter: The Retiree Advisor
- Direct deposit or debit card payments
- Deduction of medical insurance
- Deduction of dental insurance
- Deduction of Medicare supplement coverage
- Income tax information
- Certification of monthly benefits
- Certification of student discounts
- Retiree self-service at <u>mytcrs.com</u> allows a member to update account information, view and change direct deposit and tax withholding information, and a number of other easy actions.

SERVICES FOR EMPLOYERS

- Accounting entries, notes, and required supplementary information regarding pensions to comply with GASB Standard 68 are available online at <u>publicreports.treasury.tn.gov</u>.
- Actuarial Report
- Employer education regarding reporting and participation in TCRS.





TCRS Legacy Plan and Social Security Benefits

for Calendar Year 2023

Five-Year AFC*	Projected Annual Retirement Income	15 Years % of Service AF		1		% of AFC	I		% of 30 Years AFC Service			% of AFC	 Years ervice	% of AFC
	TCRS	\$ 7,0	38	\$	9,450		\$	11,813		\$	14,175		\$ 16,538	
\$30,000	Social Security	16,0	14	İ	16,044		İ	16,044			16,044		 16,044	
	Total	\$ 23,1	77.1%	\$	25,494	85.0%	\$	27,857	92.9%	\$	30,219	100.7%	\$ 32,582	108.6%
\$40,000	TCRS	\$ 9,4	50	\$	12,600		\$	15,750		\$	18,900		\$ 22,050	
	Social Security	19,0	02		19,092			19,092			19,092		 19,092	
	Total	\$ 28,5	12 71.4%	\$	31,692	79.2%	\$	34,842	87.1%	\$	37,992	95.0%	\$ 41,142	102.9%
	TCRS	\$ 11,8	.3	\$	15,750		\$	19,688		\$	23,625		\$ 27,563	
\$50,000	Social Security	22,1	28		22,128			22,128			22,128		22,128	
	Total	\$ 33,9	1 67.9%	\$	37,878	75.8%	\$	41,816	83.6%	\$	45,753	91.5%	\$ 49,691	99.4%
	TCRS	\$ 14,1	75	\$	18,900		\$	23,625		\$	28,350		\$ 33,075	
\$60,000	Social Security	25,1	76		25,176			25,176			25,176		 25,176	
	Total	\$ 39,3	65.6%	\$	44,076	73.5%	\$	48,801	81.3%	\$	53,526	89.2%	\$ 58,251	97.1%
	TCRS	\$ 16,5	38	\$	22,050		\$	27,563		\$	33,075		\$ 38,588	
\$70,000	Social Security	28,2	24		28,224			28,224			28,224		 28,224	
	Total	\$ 44,7	63.9%	\$	50,274	71.8%	\$	55,787	79.7%	\$	61,299	87.6%	\$ 66,812	95.4%

TCRS Hybrid Plan and Social Security Benefits

for Calendar Year 2023

Five-Year AFC*	Projected Annual Retirement Income	15 Years		15 Years Service		% of AFC	20 Years Service		% of	% of 25 Year AFC Service		% of AFC			% of AFC	35 Years Service		% of AFC
MC	TCRS	\$	4,500	Arc	\$	6,000	MC	\$	7,500	Aic	\$	9,000	Arc	\$	10,500	MC		
\$30,000	Social Security		16,044			16,044			16,044			16,044			16,044			
	Total	\$ 2	20,544	68.5%	\$	22,044	73.5%	\$	23,544	78.5%	\$	25,044	83.5%	\$	26,544	88.5%		
	TCRS	\$	6,000		\$	8,000		\$	10,000		\$	12,000		\$	14,000			
\$40,000	Social Security		19,092			19,092			19,092	.		19,092			19,092			
	Total	\$ 2	25,092	62.7%	\$	27,092	67.7%	\$	29,092	72.7%	\$	31,092	77.7%	\$	33,092	82.7%		
	TCRS	\$	7,500		\$	10,000		\$	12,500		\$	15,000		\$	17,500			
\$50,000	Social Security		22,128			22,128			22,128			22,128			22,128			
	Total	\$ 2	29,628	59.3%	\$	32,128	64.3%	\$	34,628	69.3%	\$	37,128	74.3%	\$	39,628	79.3%		
	TCRS	\$	9,000		\$	12,000		\$	15,000		\$	18,000		\$	21,000			
\$60,000	Social Security		25,176			25,176			25,176			25,176			25,176			
	Total	\$.	34,176	57.0%	\$	37,176	62.0%	\$	40,176	67.0%	\$	43,176	72.0%	\$	46,176	77.0%		
	TCRS	\$	10,500		\$	14,000		\$	17,500		\$	21,000		\$	24,500			
\$70,000	Social Security		28,224			28,224			28,224	.		28,224			28,224			
	Total	\$.	38,724	55.3%	\$	42,224	60.3%	\$	45,724	65.3%	\$	49,224	70.3%	\$	52,724	75.3%		

 $^{{}^{\}star}\textit{Average Final Compensation}$

A key component of the Hybrid Plan is a 401(k) plan, which allows the member to invest pre-tax or after-tax (Roth) dollars in investment options of his or her choice that are offered by the plan. A member is immediately vested in the 401(k) and can decide how the contributions should be invested given individual goals, risk tolerance, and timeline. The amount a member receives in retirement from his or her 401(k) account is based on the amount saved, plus any accumulated earnings from investments. The employer contributes 5% of the employee's earnable compensation directly to the 401(k) for the member to invest.

This chart is based on a date of retirement in 2023. Social security benefits have been calculated by USI, Inc., actuarial consultants for the TCRS, utilizing the following assumptions: (1) retirement is taking place at age 65 in 2023; (2) the retiree has worked a full career (TCRS plus other employers, if necessary) of 35 years or more; and (3) salary increases throughout the retiree's career have followed the same pattern as National Average Earnings.

MAJOR LEGISLATIVE IMPROVEMENTS





1972

Benefit formula improved from 1.12 percent of salary up to the SSIL to 1.5 percent of salary up to the SSIL.

1974

Maximum annual cost-of-living increase raised to 3.0 percent.

Service credit authorized for unused accumulated sick leave.

1976

Service retirement eligibility requirements reduced from age 65 or 35 years of service to age 60 or 30 years of service.

Early retirement eligibility requirements reduced from age 60 or 30 years of service to age 55.

1978

A bonus cost-of-living increase granted to retirees at a lump-sum cost of \$15.3 million.

An optional retirement plan established for teachers in the Board of Regents system.

1980

Death benefits for members dying in-service with ten years of service improved by offering a 100 percent joint and survivor annuity of the member's accrued benefit for the spouse.

1981

Noncontributory retirement for state employees and higher education employees adopted. Employees' contributions, up to 5.0 percent, were assumed by the state.

1983

An actuarially-reduced retirement benefit at any age with 25 years of service authorized.

1984

Credit for out-of-state service for the purpose of determining retirement eligibility authorized.

Retirement credit for armed conflict approved.

Part-time employees permitted to participate in TCRS and members allowed to establish credit for previous part-time employment.

1985

\$22 million ad-hoc increase granted to retirees.

1987

Service credit for half of peacetime military service made available.

\$17 million ad-hoc increase granted to retirees.

Section 414(h) of the IRC adopted, allowing employee contributions to be made on a tax-deferred basis.

1991

3.6 percent indexing of salaries for noncontributory employees extended one year. Each succeeding year up to 1997, the 3.6 percent indexing was extended. In 1997, it was extended indefinitely.

1992

Minimum number of years required to qualify for retirement was reduced from ten years to five years.

1993

Salary portability for service in different classifications authorized effective January 1, 1994.

Benefit improvement up to 5.0 percent authorized.

1997

Compounded COLA for retirees approved.

1998

Group 2 and Group 3 service requirements amended to permit service retirement with 30 years of service, regardless of age.

Group 1 and Prior Class C benefit limitations increased to 80 percent.

Mandatory retirement established with supplemental bridge benefit for all state public safety officers.

1999

Group 1 benefit maximum increased to 90 percent.

2000

Group 2 benefit maximum increased to 80 percent.

2001

Line-of-Duty Death Benefits adopted to guarantee a minimum \$50,000 death benefit.

2005

Return-to-Work statutes were reformed, including a temporary employment increase to 120 days.

2006

Ad-hoc increase granted to members retired prior to 1989.

(continued)



MAJOR LEGISLATIVE IMPROVEMENTS (CONTINUED)



2007

Public Safety Officer benefits were enhanced to qualify a public safety officer to retire on an unreduced retirement benefit at age 55 with 25 years of service.

2012

New pension plan design options offered to local governments.

2013

Hybrid retirement plan enacted for state employees and teachers hired after July 1, 2014.

2016

Qualified Domestic Relations Orders (QDROs) recognized by the retirement system.

2017

Allow members to designate multiple beneficiaries at retirement.

2019

Added 25-year early retirement option for all public safety officers.

Changed service requirement for some death benefits from 10 years to vesting.

2020

Added 25-year early retirement option for all correctional officers and emergency medical service employees.

2021

Expanded Public Safety Officer Benefits to cover Local Government Correctional Officers on an optional basis.

Retired Law Enforcement Officers allowed to return to work with added benefits.

2022

TCRS members can now purchase retirement credit in TCRS for all of the member's service previously rendered while a full-time employee and participating member of a Tennessee local government's defined benefit retirement plan.

Added 25-year early retirement option for all emergency communications personnel.

Added a Return-to-Work program for Bus Drivers, Teachers, and Emergency Medical Services employees which would allow them to return to work and still collect 70% of their TCRS benefit.

Amended current law to allow a retired member can cancel his or her beneficiary for any reason and allow election of a new beneficiary. The new beneficiary would only be entitled to the remaining accumulated contributions or the member's last payment.

Added a reserve account that will help fund state liabilities for any military service credit established.

Allow members to establish service under certain circumstances during any period of armed conflict. An active member may now establish retirement credit for military service rendered during the following periods of armed conflict which did not interrupt employment. This can be established by making a lump-sum payment equal to the member's current monthly salary multiplied by 9% multiplied by the number of months established. Service is established on a basis of day for day credit. Local government employers must authorize this provision for its employees.

Multinational Force in Lebanon 8/21/1982–2/26/1984

Invasion of Grenada/Operation Urgent Fury 10/25/1983–12/15/1983

Invasion of Panama/Operation Just Cause 12/20/1989–1/31/1990

Persian Gulf War 8/2/1990-4/6/1991

Operation Enduring Freedom 10/7/2001–12/28/2014

Operation Iraqi Freedom 3/19/2003-8/31/2010

2023

Amended current return to work programs for K-12 grade teachers, substitute teachers, and school bus drivers by eliminating the employer certification and reappointment requirements.

Amended current return to work program for law enforcement officers and emergency medical personnel to make it consistent with the other return to work programs. The new law includes the 60-day separation from service requirement and a 70% reduction of the member's retirement allowance.

Added a minimum allowance requirement for the General Assembly members who retire on or after November 5, 2024, with ten or more years of service.