

TEACHERS' RETIREMENT SYSTEM

of the State of Kentucky

BOARD OF TRUSTEES

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GARY L. HARBIN, CPA Executive Secretary Regular Quarterly Meeting of the

TRS Board of Trustees

AGENDA

September 19, 2022, 12:30 p.m. ET

Board Called to Order

Roll Call

- 1. Reports for Consent
 - 1.1. Consideration/Approval of Minutes
 - 1.1.1. Quarterly Meeting of the Board of Trustees, June 20, 2022
 - 1.1.2. Special Meeting of the Governance and Audit Committee, June 20, 2022
 - 1.2. Applications for Retirement and Annuity
 - 1.3. Survivor Benefits
 - 1.4. Life Insurance Benefits
 - 1.5. Refunds
 - 1.6. Interim Financial Statements
- 2. Report of the Investment Committee
- 3. Report of the Insurance Committee
- 4. Report of the Governance and Audit Committee
- 5. Executive Secretary's Observations and Comments

General Discussion

Adjournment

The meeting will take place in the boardroom at the offices of the Teachers' Retirement System of the State of Kentucky 479 Versailles Road, Frankfort, Kentucky.

TO: Board of Trustees of the Teachers' Retirement System of the State of Kentucky

FROM: Gary L. Harbin, CPA

Executive Secretary

DATE: September 19, 2022

SUBJECT: Reports for Consent

1.1. Consideration/Approval of Minutes

1.1.1. Regular Quarterly Meeting of the Board of Trustees, June 20, 2022

1.1.2. Governance and Audit Committee Special Meeting, June 20, 2022

Recommendation: The board is requested to approve the minutes as presented.

1.2. Applications for Retirement and Annuity

The list of members who retired in June, July and August 2022 is included in the board materials. Attached is a summary of the payments and a comparison to the same period last year. Initial retirements for the period included 1,430 retirees with monthly payments totaling \$5,174,033.34. During the same period last year, 1,229 retirements resulted in monthly payments totaling \$4,150,489.77.

Recommendation: The board is requested to approve the initial payments as reported.

1.3. Survivor Benefits

The list of persons qualifying for survivor benefit payments for the quarter ended June 30, 2022, is included in the board materials. During the period, 18 survivor benefits commenced with a total monthly payment of \$2,920.

Recommendation: The board is requested to approve the survivor benefit payments as reported.

1.4. <u>Life Insurance Benefits</u>

The list of payments of life insurance benefits due to death of active and retired teachers for the quarter ended June 30, 2022, is included in the board materials. Fourteen payments to the estates or beneficiaries of active teachers and 264 payments to the estates or beneficiaries of retired teachers combined for total payments of \$1,348,000. During the same quarter in 2021, 277 payments amounted to \$1,361,000.

Recommendation: The board is requested to approve the payment of life insurance benefits as reported.

1.5. Refunds

The report of refunds for the quarter ended June 30, 2022, is included in the board materials. During the quarter, 436 refunds totaled \$4,966,373.02. The refunds are for the following categories:

Regular withdrawals	394	\$4,097,804.76
Deaths	_42	\$ 868,568.26
Totals	436	\$4,966,373.02

During the same quarter in 2021, 352 refunds totaled \$4,781,134.17.

Recommendation: The board is requested to approve the payment of refunds as reported.

1.6. Interim Financial Statements

The Interim Financial Statements for the quarter ended June 30, 2022, are included in the board materials.

Recommendation: The Interim Financial Statements are provided for informational purposes only and require no action.

Teachers' Retirement System of Kentucky Initial Applications for Retirement and Annuity 2022

	June	July	August	Total	Same Period 2021
Handicapped	<i>0</i>	<i>0</i>	0	<i>0</i>	<i>0</i>
Child	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Disability	7	6	9	22	26
Retirement	\$21,705.33	\$17,455.90	\$29,081.95	\$68,243.18	\$69,174.07
Service	278	726	401	1,405	1,199
Retirement	\$962,308.41	\$2,700,489.35	\$1,432,857.39	\$5,095,655.15	\$4,057,606.56
Beneficiary of Member Eligible to Retire	<i>1</i> \$4,041.69	<i>1</i> \$4,873.67	<i>1</i> \$1,219.65	3 \$10,135.01	<i>4</i> \$23,709.14
TOTALS	286	733	<i>411</i>	1,430	1,229
	\$988,055.43	\$2,722,818.92	\$1,463,158.99	\$5,174,033.34	\$4,150,489.77

Reports for Consent Member Account Refunds For the period April 2022 - June 2022

Active Refunds	Count	Net Refund	Taxes Withheld	Rollovers	Total
April	181	804,489.92	200,790.63	815,601.28	1,820,881.83
May	120	518,940.78	129,654.70	425,315.08	1,073,910.56
June	94	511,222.01	126,481.80	565,308.56	1,203,012.37
Total	394				4,097,804.76

Deceased Refunds	Count	Net Refund	Taxes Withheld	Rollovers	Total
April	12	241,048.37	38,502.14	98,694.82	378,245.33
May	13	67,177.49	9,940.96	33,623.92	110,742.37
June	17	290,711.77	8,130.06	80,738.73	379,580.56
Total	42				868,568.26

Total Refunds	Count	Net Refund	Taxes Withheld	Rollovers	Total
April	193	1,045,538.29	239,292.77	914,296.10	2,199,127.16
May	133	586,118.27	139,595.66	458,939.00	1,184,652.93
June	111	801,933.78	134,611.86	646,047.29	1,582,592.93
Total	436				4,966,373.02

TEACHERS' RETIREMENT SYSTEM

OF THE STATE OF KENTUCKY



INTERIM FINANCIAL STATEMENTS

QUARTER ENDED JUNE 30, 2022

(FAIR VALUE - UNAUDITED)

Statements of Plan Net Assets as of June 30, 2022 and 2021

(Fair Value - Unadjusted & Unaudited)

		ement y Trust		ealth nce Trust	Li Insuran	ife ice Trust	Oth Fun	-	TOTAL	
•	FY 2022	FY 2021	FY 2022	FY 2021	FY 2022	FY 2021	FY 2022	FY 2021	FY 2022	FY 2021
ASSETS										
Cash	\$ 408,408,436	\$ 150,555,445	\$ 196,428,780	\$ 68,774,605	\$ 684,821	\$ 274,743	\$ 110,372	\$ 253,916	\$ 605,632,409	\$ 219,858,709
Receivables										
Contributions	49,630,590	49,630,590	10,344,680	10,344,680	47,267	47,267			60,022,537	60,022,537
State of Kentucky	-	-	14,763,016	-	-	81,540			14,763,016	81,540
Investment Income	49,654,767	45,254,996	3,099,024	3,441,069	290,175	263,725	3,160	2,645	53,047,126	48,962,435
Investment Sales Receivable	16,636,770	58,963,007	3,270,138	2,949,484	1,206	13,985			19,908,114	61,926,476
Installment Account Receivable	57,753	82,355							57,753	82,355
Other Receivables	24,667	33,756	37,955,464	37,947,151					37,980,131	37,980,907
Due from Other Funds	3,848,217	3,848,217							3,848,217	3,848,217
Total Receivables	119,852,764	157,812,921	69,432,322	54,682,384	338,648	406,517	3,160	2,645	189,626,894	212,904,467
Investments at Market Value										
Short Term Investments	1,018,196,544	1,065,314,674	67,213,821	157,506,899	8,345,378	9,405,976	347,626	349,252	1,094,103,369	1,232,576,801
Bonds and Mortgages	3,244,560,222	3,627,641,860	144,284,024	155,171,801	17,872,069	20,043,254	236,796	279,516	3,406,953,111	3,803,136,431
Stocks	12,267,081,370	16,068,066,132	1,095,262,160	1,274,610,864	48,063,588	68,281,332	421,988	482,531	13,410,829,106	17,411,440,859
Alternative Investments	2,292,264,807	1,758,133,237	204,919,107	170,660,050	3,283,908	1,420,802			2,500,467,822	1,930,214,089
Real Estate	1,693,627,935	1,405,889,581	150,214,503	111,459,521	7,489,602	5,181,114			1,851,332,040	1,522,530,216
Additional Categories	1,910,112,687	1,803,453,180	371,942,317	349,991,170	2,811,693	2,549,353			2,284,866,697	2,155,993,703
Total Investments	22,425,843,565	25,728,498,664	2,033,835,932	2,219,400,305	87,866,238	106,881,831	1,006,410	1,111,299	24,548,552,145	28,055,892,099
Capital Assets	9,255,981	10,255,925							9,255,981	10,255,925
(net of accumulated depreciation) Total Assets	22,963,360,746	26,047,122,955	2,299,697,034	2,342,857,294	88,889,707	107,563,091	1,119,942	1,367,860	25,353,067,429	28,498,911,200
Total Assets	22,963,360,746	20,047,122,955	2,299,097,034	2,342,657,294	00,009,707	107,505,091	1,119,942	1,307,800	25,555,007,429	28,498,911,200
LIABILITIES										
Liabilities										
Accrued Expenses and Other Liabilities	10,553,273	15,354,229	5,769,356	7,472,716					16,322,629	22,826,945
State of Kentucky				22,741,764	96,560				96,560	22,741,764
Investment Purchases Payable	33,914,300	77,369,441	5,107,720	6,719,338	685	13,539	-	-	39,022,705	84,102,318
Investment Fees Payable	15,073,093	18,620,079	1,610,807	1,643,815	49,320	52,158	-	-	16,733,220	20,316,052
Due to Other Funds	-	-	3,775,247	3,775,245	70,478	70,478	2,492	2,492	3,848,217	3,848,215
Total Liabilities	59,540,666	111,343,749	16,263,130	42,352,878	217,043	136,175	2,492	2,492	76,023,331	153,835,294
NET ASSETS HELD IN TRUST										
FOR PENSION BENEFITS	\$ 22,903,820,080 =======	\$ 25,935,779,206 =======	\$ 2,283,433,904 ======	\$ 2,300,504,416 ===========	\$ 88,672,664 ======	\$ 107,426,916 ======	\$ 1,117,450 =======	\$ 1,365,368 ======	\$ 25,277,044,098 =======	\$ 28,345,075,906 ======

Statements of Changes in Plan Net Assets For the Twelve Months Ended June 30, 2022 and 2021

(Fair Value - Unadjusted & Unaudited)

	Retirement Annuity Trust		Hea Insuran		Life Insurance Trust		Other Funds		TOTAL	
	FY 2022	FY 2021	FY 2022	FY 2021	FY 2022	FY 2021	FY 2022	FY 2021	FY 2022	FY 2021
ADDITIONS	11 2022	112021	112022	112021	11 2022	112021	11 2022	11 2021	112022	11 2021
Contributions										
Employer- State Paid	\$ 1,577,314,461	\$ 1,060,257,414	\$ 46,237,527	\$ 78,216,742	\$ 2,160,080	\$ 1,852,447	\$ -	\$ -	\$ 1,625,712,068	\$ 1,140,326,603
Employer- LSD, Other	110,869,655	86,720,255	117,603,284	106,670,323	553,168	285,928	2,281	365,866	229,028,388	194,042,372
Member- Active	354,625,105	327,833,177	144,778,344	127,753,430					499,403,449	455,586,607
Member- Retired			60,624,196	59,871,663					60,624,196	59,871,663
Recovery Income			145,318,404	120,747,316					145,318,404	120,747,316
Total Contribution	2,042,809,221	1,474,810,846	514,561,755	493,259,474	2,713,248	2,138,375	2,281	365,866	2,560,086,505	1,970,574,561
Investment Income/(Loss)										
Net Appreciation/(Depreciation) in										
Fair Value of Investments	(3,087,370,553)	5,763,623,980	(232,131,186)	496,454,659	(16,493,405)	23,335,722	(103,264)	97,882	(3,336,098,408)	6,283,512,243
Interest	152,692,923	92,226,068	16,095,897	3,798,719	616,005	485,596	9,830	9,547	169,414,655	96,519,930
Dividends	250,357,857	208,073,365	3,035,184	9,586,461	727,170	583,808	7,309	6,489	254,127,520	218,250,123
Rental Income, Net	16,230,826	21,821,971			5 0.024	52.020	500	COO	16,230,826	21,821,971
Securities Lending, Net	4,286,340	2,751,699			70,024	52,028	589	690	4,356,953	2,804,417
Gross Investment Income	(2,663,802,607)	6,088,497,083	(213,000,105)	509,839,839	(15,080,206)	24,457,154	(85,536)	114,608	(2,891,968,454)	6,622,908,684
Less Investment Expense	(61,431,110)	(71,312,772)	(6,074,814)	(6,639,090)	(209,294)	(382,006)	-	-	(67,715,218)	(78,333,868)
Net Investment Income	(2,725,233,717)	6,017,184,311	(219,074,919)	503,200,749	(15,289,500)	24,075,148	(85,536)	114,608	(2,959,683,672)	6,544,574,816
Total Additions	(682,424,496)	7,491,995,157	295,486,836	996,460,223	(12,576,252)	26,213,523	(83,255)	480,474	(399,597,167)	8,515,149,377
DEDUCTIONS										
Benefits	2,305,852,772	2,235,240,616			6,178,000	6,120,000	164,663	166,555	2,312,195,435	2,241,527,171
Refunds of Contributions	26,745,203	25,373,818							26,745,203	25,373,818
Under 65 Insurance Expenses			106,170,919	106,822,555					106,170,919	106,822,555
Over 65 Insurance Expenses			206,386,429	204,080,504					206,386,429	204,080,504
Administrative Expense	16,936,655	12,601,841	-	1,728,008	-	34,498	-	939	16,936,655	14,365,286
Total Deductions	2,349,534,630	2,273,216,275	312,557,348	312,631,067	6,178,000	6,154,498	164,663	167,494	2,668,434,641	2,592,169,334
Net Increase (Decrease)	(3,031,959,126)	5,218,778,882	(17,070,512)	683,829,156	(18,754,252)	20,059,025	(247,918)	312,980	(3,068,031,808)	5,922,980,043
NET ASSETS HELD IN TRUST FOR PENSION BENEFITS										
Beginning of year	25,935,779,206	20,717,000,324	2,300,504,416	1,616,675,260	107,426,916	87,367,891	1,365,368	1,052,388	28,345,075,906	22,422,095,863
Ending of period	\$ 22,903,820,080 ======	\$ 25,935,779,206	\$ 2,283,433,904	\$ 2,300,504,416	\$ 88,672,664 ========	\$ 107,426,916 ========	\$ 1,117,450 =======	\$ 1,365,368 =======	\$ 25,277,044,098	\$ 28,345,075,906

TO: Board of Trustees of the Teachers' Retirement System of the State of Kentucky

FROM: Gary L. Harbin, CPA

Executive Secretary

DATE: September 19, 2022

RE: Report of the Investment Committee

1. <u>Investment Committee Meeting and Actions</u>: New investments approved at the August 25, 2022, Investment Committee meeting were as follows: A commitment of up to \$65 million from the Retirement Annuity Trust, up to \$10 million from the Health Insurance Trust and up to \$500,000 from the Life Insurance Trust to Rockwood Capital Real Estate Partners XII. The committee also approved a resolution to change the asset classification for timber assets to additional categories from alternatives.

Outside manager Fort Washington Investment Advisors presented a review of its fixed income and focused equity portfolios.

- 2. <u>Purchases and Disposals:</u> The Report of the Investment Committee for the quarter ended June 30, 2022, is presented for review and approval. During this quarter, 2,055 purchases amounted to \$3,790,971,678.01 and 2,194 disposals amounted to \$3,253,831,628.01. The disposals consisted of 1,871 sales, 289 principal payments and 34 redemptions. While TRS initiates each of these transactions, the custodian of securities is responsible for handling and securing each stock, bond or other type of investment. At the end of the quarter, TRS's invested securities had a book value of \$18,693,412,811.64 and a market value of \$22,426,147,424.09.
- 3. Staff's Comments on Economic and Market Conditions: Equity and fixed income markets declined significantly during the quarter ended June 30 while credit spreads widened amidst a very difficult period for nearly all asset classes. The inflationary environment worsened in the quarter; even as global central banks moved aggressively to tighten monetary policy. Supply chain disruptions tied to the war in Ukraine and China's zero-COVID policy kept inflation elevated and eroded the purchasing power of consumers, while global central banks consequently indicated increasingly restrictive monetary actions. Tightening financial conditions, falling growth and persistent inflationary pressure challenged investor portfolios. The S&P 500 lost 16.1% during the quarter, bringing its calendar year-to-date decline to 20%, the worst start for the index since 1970. Core bonds, normally a useful diversifier in down equity markets, fell 4.7%, bringing calendar year-to-date returns for the Bloomberg U.S. Aggregate Bond Index to a 10.3% decline. Even commodities, which performed extraordinarily well in the previous quarter, declined 5.7% in the second quarter, as the industrial metals industry rolled over amid global growth concerns. The value of the dollar increased 4.9% during the quarter on a trade-weighted basis as cross currency flows favored the higher path of interest rates in the United States. Inflation, as measured by the Consumer Price Index (CPI), increased to 9.1% by the end of June, defying earlier forecasts for moderation. Core CPI accelerated at a more modest 5.9%. Inflation is not just a U.S. phenomenon. The Organization for Economic Co-operation and Development (OECD) June Economic Outlook report forecasted global inflation to end 2022 near 9%,

roughly double its forecast from December. In response, the European Central Bank recently announced a plan to end its asset purchase program and begin raising interest rates at its July meeting, while the Bank of England similarly moved forward with a fifth straight 0.25% rate hike in June. The policy outlier across major central banks is China, where policy makers have moved toward easing as the country's zero-COVID policy and related lockdowns have brought into question the country's ability to hit annual growth targets without further government support.

U.S. equity markets fell sharply in the quarter amid increasing concerns of a coming recession as the Federal Reserve acted to respond to sustained, elevated levels of inflation. With declines affecting all sectors, investors fled to defensive stocks as these were comparatively resilient. Likewise, investors in energy stocks benefited as the sector was buoyed by commodity prices. Value stocks significantly outperformed growth stocks across all market capitalizations in the quarter, with the Russell 1000 Value and Russell 2000 Value indexes outperforming their growth counterparts by 8.7% and 4%, respectively.

Developed international markets fared better than the domestic market, albeit still finishing the quarter in negative territory with the MSCI EAFE Index notching a 14.5% decline for the period. Value stocks remained in favor with continued outperformance over growth stocks, while large-cap stocks outperformed small-cap stocks. All developed market countries and sectors were negative for the quarter, with the Asia-Pacific region and information technology sector leading markets lower, as no area was fully immune to the ongoing global inflationary pressures and recessionary risks. Emerging markets outperformed developed in the quarter with the MSCI EM Index falling 11.4%. Value stocks outperformed growth stocks and large-cap stocks outpaced small-cap stocks.

The fixed income market continued to experience significant volatility and negative performance during the quarter. Treasury yields rose to 2.98% from 2.32% with an intra-quarter high of 3.49%, as measured by the 10-year U.S. Treasury yield, demonstrating the meaningful interest rate increase and heightened volatility present during the period. Concerns regarding inflation and the Fed's response to rising prices remain top of mind with investors. The Bloomberg U.S. Aggregate Bond Index ended the quarter with a 4.7% decline. While fixed income broadly experienced negative absolute performance over the quarter, widening credit spreads presented additional headwinds to corporate credit across the quality spectrum. Investors flocked to higher-quality assets resulting in the relative underperformance of lower quality credit. For the quarter, U.S. investment grade credit fell 6.9%, while U.S. high yield declined 9.8%, as measured respectively by the Bloomberg U.S. Credit Index and Bloomberg U.S. High Yield Index.

Core private real estate generated a 4.8% return in the quarter as reported by the NFI-ODCE Index, representing income gain of 0.9% and 3.9% price appreciation. While the income return is trending at the lower end of historical levels, the price appreciation return remains elevated. Investors in publicly traded real estate significantly underperformed their private market counterparts by a meaningful margin. Publicly traded real estate fell 14.9% in the quarter, as measured by FTSE/NAREIT All REITs Index. Managers have noted emerging trends in real estate that point toward more return moderation in the coming quarters. While the industrial and apartment sectors continue to drive overall real estate returns, these sectors are showing some

early signs of softening. In particular, rent growth assumptions are being reduced and commercial real estate transaction volumes are falling from the post-pandemic record highs.

4. <u>Performance</u>: Investment performance was negative for the quarter ending June 30, 2022, with private assets doing well and public assets producing declines. The Retirement Annuity Trust's portfolio fell 10.18% in the quarter and fell 10.683% for the fiscal year, compared to the Policy Index's 10.91% decline for the quarter and 9.18% decline for the fiscal year. TRS's domestic equities declined 17.51%, underperforming the S&P 1500 Stock which decreased 16.02% for the quarter. TRS's international stocks fell 13.89% and trailed the MSCI All Country ex-U.S. index, which declined 13.54% for the quarter. Alternatives and real estate made strong contributions in the quarter as private equity gained 3.56% and real estate increased 6.54%. TRS's fixed income declined 4.86%, outperforming the Bloomberg Barclays Gov/Credit Bond index which declined 5.03% for the quarter. Additional categories declined 4.88% for the quarter.

Recommendation: The executive secretary recommends that the board accept and ratify the Report of the Investment Committee.

Teachers' Retirement System of the State of Kentucky Retirement Annuity Trust Quarterly Investment Performance Gross Returns

For the Period Ended June 30, 2022

FINAL

	Ma	rket Value	Last Qtr	FYTD	1-Year	3-Year*	5-Year*	10-Year*	20-Year*
TOTAL PLAN	\$ 2	22,426,147,424.09	-10.18	-10.68	-10.68	7.09	7.58	8.83	7.15
Policy Benchmark			-10.91	9.18	-9.18	6.79	7.42	8.55	-
Total Equity	\$ 1	12,373,996,194.48	-16.38	-19.52	-19.52	7.37	7.96	10.52	7.76
Domestic Equity	\$	8,408,434,038.04	-17.51	-16.12	-16.12	9.73	10.05	12.48	8.90
S&P 1500 Index			-16.02	-11.02	-11.02	10.29	10.92	12.79	9.05
All-Cap Equities	\$	481,706,896.34	-16.34	-13.64	-13.64	12.92	11.47	-	-
Russell 3000 Index			-16.70	-13.87	-13.87	9.77	10.60	-	-
Large-Cap Equities	\$	6,814,860,157.49	-17.81	-15.65	-15.65	10.22	10.46	12.62	-
S&P 500 Index			-16.10	-10.62	-10.62	10.60	11.31	12.96	-
Mid-Cap Equities	\$	664,867,175.08	-16.68	-20.63	-20.63	4.60	7.09	11.43	-
S&P 400 Index			-15.42	-14.64	-14.64	6.87	7.00	10.90	-
Small-Cap Equities	\$	446,999,809.13	-15.15	-19.04	-19.04	6.51	6.58	11.19	-
S&P 600 Index			-14.11	-16.81	-16.81	7.30	7.20	11.26	-
International Equity	\$	3,965,562,156.44	-13.89	-26.28	-26.28	2.64	3.97	6.33	-
MSCI AC World Ex US			-13.54	-19.01	-19.01	1.81	2.98	5.31	-
Fixed Income	\$	3,697,099,773.81	-4.86	-10.23	-10.23	-0.32	1.49	2.19	4.30
Bloomberg Barclays Govt/Credit Index			-5.03	-10.85	-10.85	-0.77	1.05	1.67	3.71
Real Estate	\$	1,693,627,935.30	6.54	26.93	26.93	12.30	11.65	11.14	10.01
In House Real Estate Equity	\$	402,120,071.65	0.96	4.04	4.04	3.59	6.71	7.46	8.22
CPI plus 2%			3.16	11.17	11.17	7.07	5.96	4.65	4.51
Core Real Estate	\$	810,649,626.87	7.16	31.14	31.14	13.39	11.35	11.64	-
NCREIF ODCE (VW) Index			4.77	29.51	29.51	12.66	10.54	11.16	-
Non-Core Real Estate	\$	480,858,236.78	10.50	44.80	44.80	19.63	16.67	17.46	-
NCREIF Property Index			3.23	21.45	21.45	10.22	8.86	9.67	-
Private Equity	\$	1,808,795,203.96	3.56	26.68	26.68	20.73	18.93	14.90	-
Mature Private Equity	\$	963,962,084.36	6.34	26.80	26.80	19.20	17.16	12.77	-
S&P 500 Index plus 3%			-15.48	-7.93	-7.93	13.92	14.65	16.35	-
Private Equity < 5 Years	\$	844,833,119.60	2.36	30.51	30.51	24.22	21.72	-	-
Timberland	\$	483,469,602.68	1.46	9.88	9.88	2.69	1.10	3.45	-
NCREIF Timberland Index			1.87	12.01	12.01	5.03	4.32	5.73	-
Additional Categories	\$	1,950,569,831.47	-4.88	-1.70	-1.70	3.60	4.52	5.63	-
B of A Merrill Lynch U.S. High Yield Master II Index			-9.99	-12.69	-12.69	-0.05	1.95	4.40	-
Cash (Unallocated)	\$	418,588,882.39	0.30	0.35	0.35	0.56	1.08	0.64	1.37
90 Day T-Bill			0.11	0.17	0.17	0.63	1.11	0.63	1.20

Total Trust Gross Return for 30-year period*

7.75

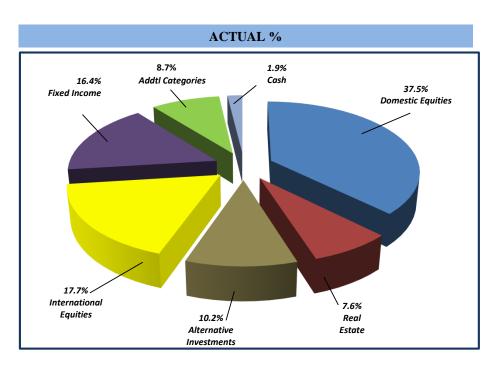
^{*}Returns are annualized for periods longer than one year

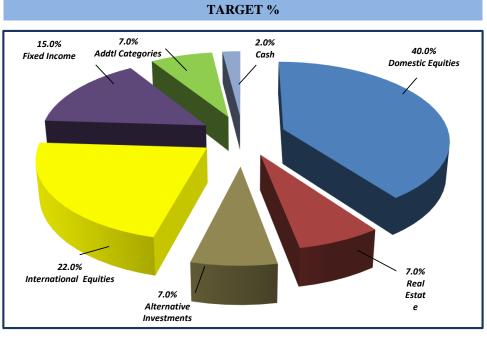
^{**} Prior to July 1, 2008, TRS did not benchmark overall fund performance. Effective July 1, 2008, the Board of Trustees approved a Policy Index that represents the returns of appropriate benchmarks for the various asset classes weighted by the mid-point of the strategic range for the current fiscal year.

Teachers' Retirement System of Kentucky

Quarterly Investment Update For the period ended June 30, 2022

(\$ in millions)	\$'s	6/30/2022 Actual %	3/31/2022 Actual %	Target %	Strategic Ranges
Domestic Equities	\$8,408.4	37.5%	42.3%	40.0%	34.0 - 48.0%
Real Estate	1,693.6	7.6%	6.6%	7.0%	4.0 - 10.0%
Alternative Inv.	2,292.3	10.2%	7.9%	7.0%	4.0 - 10.0%
International Equities	3,965.6	17.7%	18.8%	22.0%	18.0 - 25.0%
Fixed Income	3,697.1	16.4%	14.8%	15.0%	8.0 - 22.0%
Addtl Categories	1,950.5	8.7%	8.0%	7.0%	4.0 - 15.0%
Cash	418.6	1.9%	1.6%	2.0%	1.0 - 5.0%
Total	\$22,426.1	100.0%	100.0%	100.0%	





FINAL

Teachers' Retirement System of the State of Kentucky Health Insurance Trust Quarterly Investment Performance Gross Returns For the Period Ended June 30, 2022

	 Market Value	Last Qtr	FYTD	1-Year	3-Year*	5-Year*	10-Year*	20-Year*
TOTAL PLAN	\$ 2,033,835,931.89	-10.35	-9.43	-9.43	6.95	7.26	7.53	-
Policy Benchmark		-11.37	-10.05	-10.05	6.25	6.72	-	-
Total Equity	\$ 1,099,199,885.64	-16.91	-20.01	-20.01	6.04	6.86	8.98	
Domestic Equity	\$ 95,324,259.06	-27.63	-44.45	-44.45	2.94	5.06	-	-
S&P 500 Index		-16.10	-10.62	-10.62	10.60	11.31	-	-
Russell 3000		-16.70	-13.87	-13.87	9.77	10.60		
Global Equities	\$ 1,003,875,626.58	-15.72	-16.49	-16.49	6.27	7.00	9.09	-
MSCI AC World IMI (Net)		-15.83	-16.52	-16.52	5.98	6.70	8.71	-
Fixed Income	\$ 176,287,536.43	-3.34	-8.11	-8.11	0.37	1.64	1.52	-
Barclays Government Credit		-5.03	-10.85	-10.85	-0.77	1.05	1.67	-
Real Estate	\$ 150,214,502.97	9.53	42.12	42.12	19.02	15.61	-	-
Core Real Estate	\$ 74,491,211.15	7.85	35.49	35.49	15.63	12.67	-	-
NCREIF ODCE (VW)		4.77	29.51	29.51	12.66	10.54	-	-
Non-Core Real Estate	\$ 75,723,291.82	11.23	49.05	49.05	22.29	18.27	-	-
NCREIF Property Index		3.23	21.45	21.45	10.22	8.86	-	-
Private Equity	\$ 204,919,106.49	2.61	30.88	30.88	22.69	19.73	18.13	-
Mature Private Equity	\$ 80,454,927.29	9.89	40.50	40.50	22.82	20.69	16.64	-
S&P 500 plus 3%		-15.48	-7.93	-7.93	13.92	14.65	16.35	-
Private Equity < 5 Years	\$ 124,464,179.20	-0.30	15.81	15.81	19.26	17.67	-	-
Additional Categories	\$ 386,629,644.85	-5.86	-3.96	-3.96	2.87	3.90	4.85	-
B of A Merrill Lynch High Yield Master II		-9.99	-12.69	-12.69	-0.05	1.95	4.40	-
Cash (Unallocated):	\$ 16,585,255.51	0.97	1.23	1.23	0.86	1.29	0.75	-
90 Day T-Bill		0.11	0.17	0.17	0.63	1.11	0.63	-

^{*}Returns are annualized for periods longer than one year

^{**} Prior to July 1, 2015, TRS did not benchmark overall fund performance. Effective July 1, 2015, the Board of Trustees approved a Policy Index that represents the returns of appropriate benchmarks for the various asset classes weighted by the mid point of the strategic range for the current fiscal year.

Teachers' Retirement System of Kentucky

Insurance Trust Fund

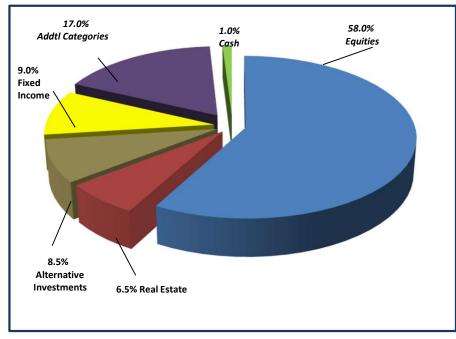
Quarterly Investment Update For the period ended June 30, 2022

(\$ in thousands)	\$'s	6/30/2022 Actual %	3/31/2022 Actual %	Target %	Strategic Ranges
Equities	\$1,099,199.9	54.0%	58.2%	58.0%	51.0 - 64.0%
Real Estate	\$150,214.5	7.4%	6.1%	6.5%	4.0 - 12.0%
Alternative Inv.	\$204,919.1	10.1%	8.6%	8.5%	5.0 - 12.0%
Fixed Income	\$176,287.5	8.7%	8.0%	9.0%	6.0 - 12.0%
Addtl Categories	\$386,629.6	19.0%	17.9%	17.0%	14.0 - 21.0%
Cash	\$16,585.3	0.8%	1.2%	1.0%	0.0 - 4.0%
Total	\$2,033,835.9	100.0%	100.0%	100.0%	

ACTUAL %

19.0% Addtl Categories 54.0% Equities Fixed Income 10.1% Alternative Investments 7.4% Real Estate

TARGET %



April Activity

Purchases	721,707,712.94
Disposals	(586,474,628.28)
Paydowns	(4,334,244.06)
Redemptions	(21,881,145.79)
Short-Term Pool Net	620,865,754.35

729,883,449.16

May Activity

Purchases	477,514,049.33
Disposals	(433,089,727.26)
Paydowns	(1,692,638.13)
Redemptions	(17,270,046.66)
Short-Term Pool Net	(130,546,592.60)

(105,084,955.32)

June Activity

Purchases	1,010,163,068.51
Disposals	(652,013,748.51)
Paydowns	(1,917,677.45)
Redemptions	(6,761,004.61)
Short-Term Pool Net	(437,129,081.78)

(87,658,443.84)

TOTAL BV INVESTED AT 06/30/22

\$ 18,693,412,811.64

Total Short Term \$ 1,018,500,402 + Pending Receivable 17,277,525 Net \$ 1,001,222,877

^{*} TRS recognizes investment transactions on the date they occur. Transaction settlements, generally, occur days following transactions. The interim period between transaction date and settlement date represents a "pending period". At the time this statement was produced, (\$17,277,524.54) in net transactions had occurred but had not settled. The statement does not include either expected cash receipts or disbursements associated with these pending trades. Upon settlement of these pending transactions, the net effect would be as follows:

INVESTMENT ACTIVITY April 1, 2022 -- June 30, 2022

Total Book Value Invested @ 4/1/22 Purchases:					18,156,272,761.64
354	Cash Equivalents	\$	1,581,586,847.21		
142	Fixed Income Securities	Ψ	433,340,235.80		
1	Principal Paydowns		0.02		
0	Additional Redemptions / Maturities		0.02		
1160	Equity Securities		635,580,675.29		
30	Real Estate		33,202,972.84		
129	Alternative Investments		784,336,203.87		
239	Additional Categories		322,924,742.98		
2055	Total Purchases		322,324,742.30	\$	3,790,971,678.01
Disposals				Ψ	3,790,971,070.01
317	Cash Equivalents	\$	1,528,396,767.24		
107	Fixed Income Securities	Ψ	306,236,277.89		
289	Principal Paydowns		7,944,559.66		
27	Redemptions / Maturities		40,721,954.42		
1078	Equity Securities		627,437,603.51		
46	Real Estate		50,363,963.50		
189	Alternative Investments		451,267,649.23		
134	Additional Categories		236,272,609.92		
0	Additional Principal Paydowns		-		
7	Additional Redemptions / Maturities		5,190,242.64		
2194	Total Disposals		0,100,212101	\$	3,253,831,628.01
	rota. Dioposale			Ψ	0,200,001,020101
Total Book Value Invested @ 06/30/22		\$	18,693,412,811.64		
Total Par Value Invested @ 06/30/22			\$	18,718,762,639.00	
Total Market Value Invested @ 06/30/22			\$	22,426,147,424.09	

^{*} TRS recognizes investment transactions on the date they occur. Transaction settlements, generally, occur days following transactions. The interim period between transaction date and settlement date represents a "pending period". At the time this statement was produced, (\$17,277,524.54) in net transactions had occurred but had not settled. The statement does not include either expected cash receipts or disbursements associated with these pending trades. Upon settlement of these pending transactions, the net effect would be as follows:

Total Short Term	\$ 1,018,500,402
- Pending Payable	17,277,525
Net	\$ 1,001,222,877

TO: Board of Trustees of the Teachers' Retirement System of the State of Kentucky

FROM: Gary L. Harbin, CPA

Executive Secretary

DATE: September19, 2022

RE: Report of the Insurance Committee

On September19, 2022, prior to the quarterly board meeting, the Insurance Committee will meet. Thereafter, the committee will report to the board on the following matters:

- 1. KEHP rates for 2023. A health insurance benefit supplement is being recommended to the committee for the Kentucky Employees' Health Plan (KEHP) up to \$767.56 per month in 2023 for those retirees fulfilling the necessary service requirements. This includes a KEHP administrative fee of \$8 per person per month (PPPM) for plan year 2023. (The administrative fee may increase beginning in July 2023 with the new fiscal year. Staff will report to the committee any such increase.)
- 2. MEHP rate for 2023. A rate is being recommended to the committee of up to \$217 per month for the 2023 TRS Medicare Eligible Health Plan (MEHP), which includes a combined UnitedHealthcare Medicare Advantage plan and Express Scripts Medicare Part D drug plan, for those retirees fulfilling the necessary service requirements.

Any actions by the Insurance Committee will be reported to the board with a request for those actions to be accepted and ratified.

TO: Board of Trustees of the Teachers' Retirement System of the State of Kentucky

FROM: Gary L. Harbin, CPA

Executive Secretary

DATE: September 19, 2022

SUBJECT: Executive Secretary's Observations and Comments

1. <u>Trustee Education Program</u>: The TRS Board of Trustees always has been devoted to gaining timely and relevant training on matters related to the proper administration of TRS. The board expressed its dedication to continuing education on November 17, 2008, when it adopted the Teachers' Retirement System Trustee Education Program in accordance with KRS 161.250(3)(c). The policy is contained in Appendix 9 of the Board Governance Manual. Chapter 3, subparagraph 6 of the policy provides that the executive secretary will report concerning this program each year at the September board meeting.

From July 2021 through June 2022, trustees attended 309 hours of combined approved training in accordance with the program. The approved training activities included a mix of programs and activities presented by national retirement associations, TRS staff and TRS service providers with expertise in investments, law and actuarial concepts. Topics covered a broad range of subjects, including pension and medical benefits administration, investment concepts, legal compliance, fiduciary duty and other matters that enhance the effectiveness of trustees in fulfilling their roles and satisfying their duties under law.

TRS staff also assisted with providing specific training to trustees. TRS staff presented a one-day workshop that focused primarily on investment concepts, ethics and governance matters.

- 2. <u>Annual Trustee Workshop</u>: TRS staff is planning a one-day trustee workshop that will focus on current issues in the administration of TRS. Staff anticipates presentations on funding, plan design, actuarial issues, investment concepts, ethics, governance and other matters. The trustee workshop tentatively is scheduled for Monday, November 21, 2022.
- 3. <u>GASB Statement Nos. 67 and 68</u>: In June 2012, the Governmental Accounting Standards Board (GASB) approved two statements concerning the accounting and financial reporting of pensions by state and local governments and pension plans. Statement No. 67, *Financial Reporting for Pension Plans*, addresses financial reporting for state and local government pension plans. Statement No. 68, *Accounting and Financial Reporting for Pensions*, establishes new accounting and financial reporting requirements for governments that provide their employees with pensions. While the two statements were being developed, TRS took an active role in communicating issues and concerns to GASB through a consortium of similarly situated public pension plans.

Statement No. 67 took effect for the fiscal year ending June 30, 2014. Statement No. 68 took effect for the state and universities for the fiscal year ending June 30, 2015.

Because of some concern expressed previously as to how these accounting standards apply to Kentucky school districts, particularly whether these new accounting standards would affect the budgets of the districts, two important points should be noted.

First, as a critical reminder, GASB standards generally apply only to financial reporting. They do not mandate how a governmental pension plan is to be funded. In Kentucky, the commonwealth has a statutory obligation to provide pension funding through the employer retirement contributions it makes on behalf of teachers and administrators and payments toward the unfunded liability. As such, the responsibility for making employer contributions and addressing the unfunded liability of TRS 1, TRS 2 and TRS 3 rests with the commonwealth, not the local school districts. These GASB accounting standards do not change the funding responsibility. GASB accounting standards do not require school districts to make employer contributions to TRS.

Second, while these GASB accounting standards impose financial reporting standards on governmental employers regarding pension liability, Kentucky is very different from other states in that Kentucky teachers and administrators generally are treated as employees of the commonwealth for pension and other purposes. Given this circumstance, GASB has confirmed that the commonwealth is responsible for reporting the annual required contributions and pension liabilities. Furthermore, GASB also has confirmed that Kentucky schools are not required to report a share of the pension liability in district financial statements.

TRS GASB 67 and 68 Reports: TRS published the accounting information required under Statement No. 67 in TRS's annual financial report for the fiscal years ending June 30, 2021 and 2020.

On July 12, 2022, TRS published the "GASB Statement No. 68 Report ... Prepared as of and for the year ended June 30, 2021" for use by the state and other TRS employers. TRS's report was audited by the external auditor, which expressed the opinion that the schedules present fairly, in all material respects, the employer allocation and other matters addressed.

GASB Statement Nos. 74 and 75: In June 2015, GASB approved two statements concerning the accounting and financial reporting of other postemployment benefits (OPEB) by state and local governments and benefit plans. Statement No. 74, Financial Reporting for Postemployment Benefits Other Than Pension Plans, addresses financial reporting for OPEB plans. Statement No. 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions, establishes new accounting and financial reporting requirements for governments that provide their employees with OPEB.

TRS GASB 74 and 75 Reports: TRS published the accounting information required under Statement No. 74 in TRS's annual financial report for the fiscal years ending June 30, 2021 and 2020.

On July 12, 2022, TRS published the "GASB Statement No. 75 Report ... Prepared as of and for the fiscal year ended June 30, 2021" for use by the state and other TRS employers. TRS's report was audited by the external auditor, which expressed the opinion that the schedules present

fairly, in all material respects, the employer allocation and other matters addressed.

The GASB Statement Nos. 68 and 75 reports and the external audit reports are available for review by the board.

4. <u>Executive Secretary's Meetings</u>: The executive secretary has had meetings with several groups recently and will report to the board concerning the following:

June 22-23, 2022	Video filming with Coriell Life Sciences
June 29, 2022	Meeting with Fort Washington Capital Partners Group
July 14, 2022	Healthcare Roundtable Annual Congressional Forum
July 25, 2022	Meeting with AON
July 28, 2022	Meeting with Todd Asset Management
August 23, 2022	Meeting with AON
August 26, 2022	Presentation at Kentucky Retired Teachers' Association Fall Workshop
August 26, 2022	Meeting with Sagitec
September 2, 2002	Meeting with Molpus
September 7, 2022	Meeting with Mulloy Borland
September 13, 2022	KYRx Coalition Board Meeting
September 13, 2022	Meeting with Coalition to Sustain the Education Profession

5. Next Meeting: The next quarterly meeting of the board will be December 19, 2022.



Teachers' Retirement System of the State of Kentucky



Fall Workshops 2022

Gary L. Harbin, CPA Executive Secretary

Doing It Right

What That Means at TRS



Providing security for Kentucky's retired teachers using a long-term investing process proven and refined over decades, avoiding the whims of the day, to achieve top returns on investments at the lowest costs.

Today's Topics

- About You and TRS
- Board of Trustees and Administration



- Investment Performance
- Funding Update
- Retiree Health Insurance and Personalized Medicine
- Member Services
- Retired Return to Work
- Issues Ahead



Consistency

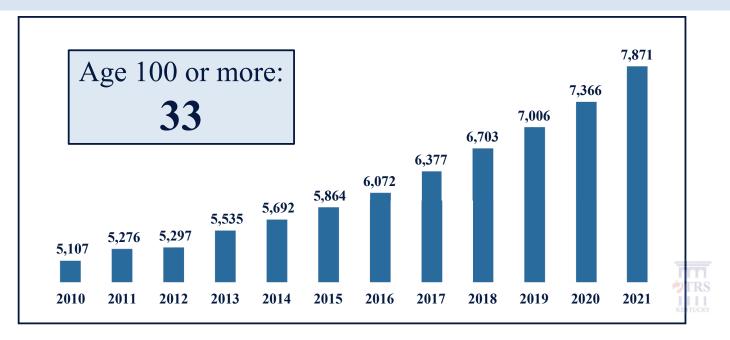
Number of founding members of TRS receiving a benefit as of June who were members when the doors opened July 1, 1940





TRS Benefits Protect Teachers

Retirees over 80 as of Dec. 31

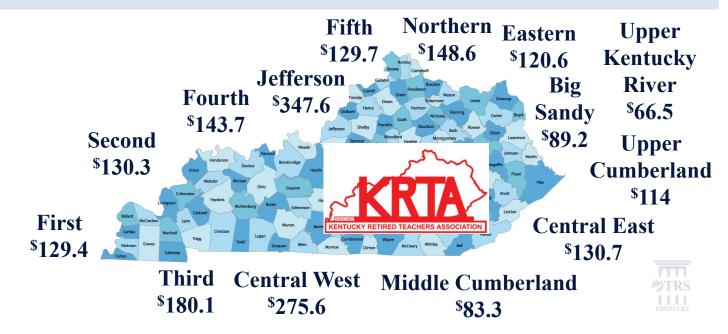


Retired Teachers Benefit Kentucky

- TRS pays retired teachers:
 - \$216.9 million in retirement annuity benefits (July 2022)
 - \$16.8 million in medical benefits (monthly average)
- 90% of TRS pension benefits stay in Kentucky
- 87% of TRS retirees live in Kentucky
- •\$2.1 billion a year paid into Kentucky's economy because of pension benefits

Retired Teachers Benefit Kentucky

Fiscal Year 2022 Annuity Benefits (in millions) by KRTA District



Annualized Gross Benefits

Service Retirees as of June 30, 2022



What the Chart Shows



- 46% of retirees received \$40,000 or less in Fiscal Year 2022
- 85% of retired teachers receive \$60,000 or less
- 1.44% of retirees receive more than \$100,000
- Careers of retirees receiving \$20,000 to \$40,000 averaged 25 years
- People receiving higher pensions also worked longer

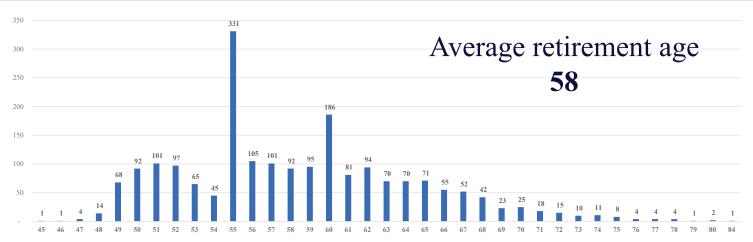
Remember: TRS replaces Social Security

Note: Excludes disability retirement payments



Retirees By Age At Retirement

Fiscal Year 2022: 2,059 Service Retirements



- Only 4% retire before age 50
- Four times as many people retire at 65 & over than under age 50
- Average career teacher retiring in FY 2022 worked 29 years



Board of Trustees

Fiduciaries of TRS



MCGOWN Chair, Bowling Green



JOHN BOARDMAN Vice Chair, Lexington



BILL ALVERSON



BALL State Treasurer



COLLECCHIA Louisville



JASON GLASS, Ed.D. Education Commissioner



HOLLIS GRITTON Union



BEN LITTLEPAGE, Ed.D. Murray



LAURA SCHNEIDER Walton



JOSH UNDERWOOD Tollesboro



ALISON WRIGHT Georgetown



Trustee Elections Each Spring

April

You have 0 new message(s)

Active Member Home

Alerts & Messages

Personal Information

PATHWAY

TRS ID : User Name

My Accounts

Related Tasks

Welcome to the TRS Member Self Service (MSS). MSS is a secure website where you can view profile. If applicable, you can also perform retirement benefit estimates. **Board of Trustees Election** View Ballot and Vote

May

	Please complete the ballot below, tear on	perforation and mail. NO POSTAGE NECESSARY.
TRS IIII KENTUCKY	This year the membership will be selecting one lay trustee and one active teacher trustee. Please vote for ONLY ONE Lay Trustee and ONLY ONE Active Teacher Trustee. An extra line is provided if you prefer to vote for a write-in candidate.	OFFICIAL BALLOT Election of Board of Trustees Members per KRS 161.260 Mail no later than May 31,
		Candidates for Lay Trustee
		Candidates for Active Teacher Trustee
		TRS OFFICIAL BALLOT NUMBER: 12345

All contributing members and retirees have the privilege to vote.







TRS Expenses vs. Other Systems

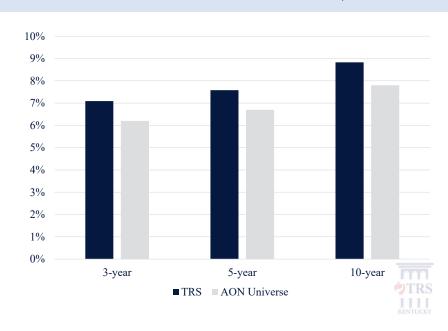
As of June 30, 2021

	Percentage of Liabilities
TRS Kentucky	0.0333%
Louisiana Teachers	0.0427%
New Mexico Public Employees	0.0545%
Kansas Public Employees	0.0556%
Ohio Teachers Retirement System	0.0669%
Kentucky Public Pensions Authority	0.0772%
Georgia Employees	0.081%
Indiana Public Employees	0.1025%

Investment Peformance

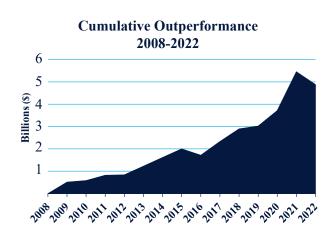
Retirement Annuity Trust Gross Returns as of June 30, 2022

Quarter	-10.18%		
1-year	-10.91%		
3-year	7.09%		
5-year	7.58%		
10-year	8.83%		
20-year	7.15%		
30-year compounded			
7.75%			



Investment Performance

TRS vs. Average Retirement Plan

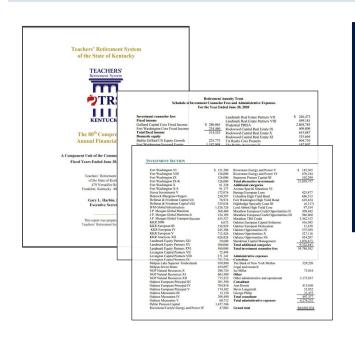


From 2008 to June 2022, TRS investment returns resulted in net assets of \$22.9 billion, compared to the average plan's \$18 billion.

This outperformance generated \$4.9 billion to the benefit of Kentucky's teachers and all taxpayers.

Transparent Low Investment Fees

From Most Recent TRS Annual Report (pages 111-112)



Total \$71.3 M

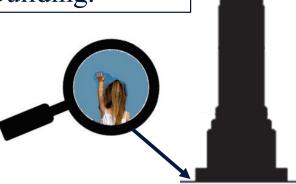
28/100 of 1%
of annuity assets



Transparent Low Investment Fees

What Is 28/100 of 1%?

A 4-foot-tall child standing beside the Empire State Building.







Funding Update



Funding Update

2022-24 Biennial Budget

- Means eight straight years of full or nearly full annuity funding
- More than \$1.36 billion to meet actuarially required contribution for annuities
 - About \$900 million more to TRS in salary contributions from education budget
- \$149 million for state statutory contribution for under-65 health insurance under Shared Responsibility
- \$479.2 million to pay off liabilities for certain previously awarded benefits that had been amortized over several years
- \$78 million up front for sick leave-related annuity liabilities projected to occur from retirements in next two years

Actuarial Analysis

As of June 30, 2021



Dollars in billions

KENTUCKY	Assets	Liabilities	Unfunded	Percent
Retirement Annuity Trust	\$ 22.6	\$ 39.6	\$ 17.0	57.2%

Actuarial values





Retiree Health Insurance



Two Plans for TRS Health Benefits

KEHP

Kentucky Employees' Health Plan

- Under 65 and not Medicare-eligible
- Same fund as active teachers and state employees
- Coverage options

MEHP

Medicare Eligible Health Plan

- Medicare-eligible or 65 & over
- Exclusively TRS members
- One plan

Insurance Details Can Change

Kentucky law guarantees retired teachers access to group coverage, but the details of that coverage – including costs, subsidy and level of coverage – can change.



Shared Responsibility

In Second Decade

Shared solution providing permanent funding for retiree health care



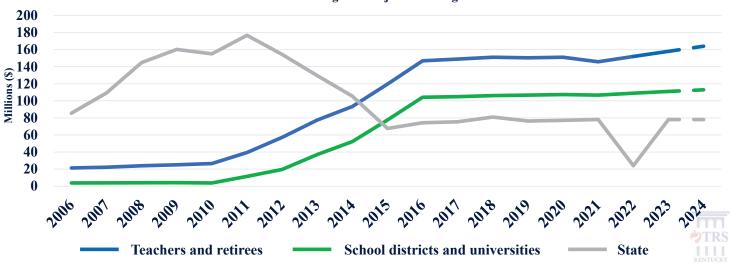




Shared Responsibility

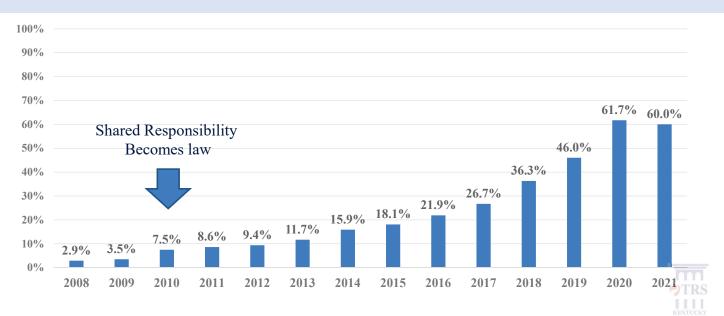
How the Cost Has Been Shared

Funding for Retiree Health Care 2006-2022 and Budgeted/Projected through 2024



TRS Health Insurance

Funded Status



MEHP

Premiums



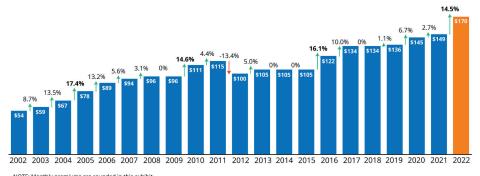
Premiums Held Almost Constant For 20 Years

MEHP

Medicare Part B History

The Medicare Part B Premium Rose to \$170.10 per Month in 2022

14.5% Increase is Among the Largest in Program History



NOTE: Monthly premiums are rounded in this exhibit.

SOURCE: KFF analysis of the 2021 Annual Report of the Boards of Trustees of the Federal Hospital Insurance and Federal Supplementary Medical Insurance Trust Funds and CMS, "Medicare Program; Medicare Part B Monthly Actuarial Rates, Premium Rates, and Annual Deductible Beginning January 1, 2022," 86 Federal Register 64205, November 17, 2021.



Source: Kaiser Family Foundation



KEHP

MEHP Know Your Rx Coalition

Free counseling with live pharmacists

Know Your Rx Coalition *Pharm-Assist*

Hours: Monday to Friday, 8 a.m. to 6 p.m. ET

Phone: 855-218-5979 Email: KYRx@uky.edu Website: www.KYRx.org







MEHP

Personalized Medicine



TRS Solution: Personalized Medicine Partnership



You Your Doctor Your Pharmacist









Personalized Medicine

Why It Works

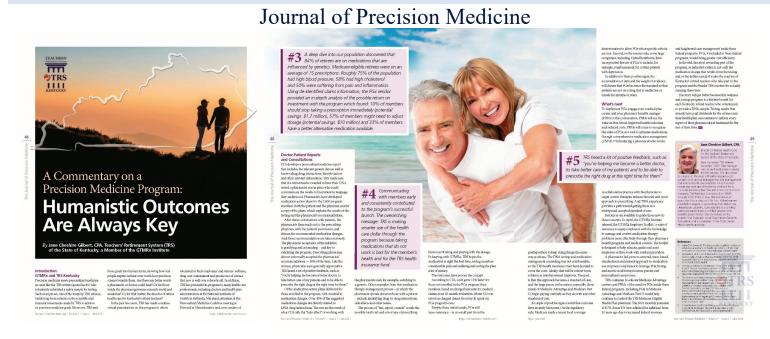
- Helps avoid taking ineffective medications that even could be fatal
- Saves money for retirees and their insurance trust
- Uses DNA testing to help doctors making treatment decisions
- Results help make sure medications are beneficial from the start
- Avoids traditional trial-and-error process without DNA information



KEHP MEHP

Personalized Medicine

Genetic Testing Wellness Program Gets National Attention





Personalized Medicine

Peer-Reviewed Initial Results Receive Attention



- 66% had genetic risks detected in a current medication
- 14.9% reduction in inpatient visits
- 6.8% reduction in emergency room visits
- \$37 million savings in direct medical charges over 32 months

TRS

KEHP MEHP

Personalized Medicine

One Retiree's Story

I am *so grateful* for the information that was given to me and my physician. I was taking metropolol for my *heart condition*. Your tests showed that it *stayed too long in my system*. I sometimes had the feeling that I was on the verge of *fainting*. I *had not had that feeling since I started taking the new suggested medication*. I thank you from the bottom of my heart.

- Member, Teachers' Retirement System of the State of Kentucky



MEHP

Personalized Medicine

How to Sign Up



MEHP enrollees can contact Coriell at 888-454-9024 or www.coriell.com/trs to request free DNA kit.



Non-Medicare KEHP enrollees can contact Coriell and use HRA funds to pay the \$360 cost.



KEHP MEHP

Personalized Medicine

Reaching Further After Success of Pharmacogenomics



Pharmacogenomics Fall 2017



2021



Breast Cancer Index Possible Non-Small Cell Lung Cancer 2022



What's Jane Say

If Some Old Quarterback Says You Need More Coverage ...

Tell Joe (and others like him), 66No! 29

If you are enrolled in the TRS Medicare Eligible Health Plan (MEHP), enrolling in another Medicare Advantage plan would "dynomite" your TRS MEHP coverage.

Watch video: https://youtu.be/r07m_jwc-wY
or https://trs.ky.gov/videos







Member Services



Retirements and Counseling

Fiscal 2022



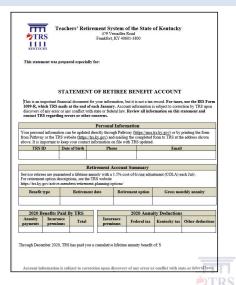
2,777 **Counseling** sessions

*Unaudited

Retiree Annual Statements

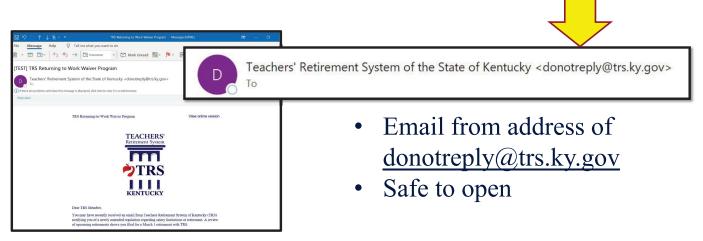
Summarizes

- Personal information on file with TRS
- How to update that
- Annuity benefits received
- Federal and Kentucky state tax withholding
- How to change withholding
- Retiree health insurance
- Beneficiary information
- Annuity automatic deposit information
- Payment dates



Don't return with changes; using appropriate form or Pathway (https://mss.trs.ky.gov).

Direct Emails





New Benefits Program

TRS 4

Applies only to members opening new (including retired return-to-work) accounts beginning Jan. 1, 2022



TRS Account Types

Four TRS Account Types Delineated By Entry Date

TRS 1

Entry before July 1, 2002

TRS 2

Entry on or between
July 1, 2002, and
June 30, 2008

TRS 3

Entry on or between
July 1, 2008, and Dec. 31, 2021

TRS 4

Entry on or after Jan. 1, 2022



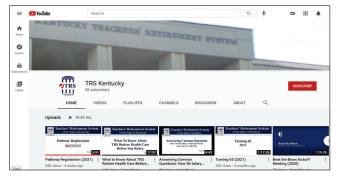
TRS Videos

Seminars, Webinars, Other Educational Presentations

TRS Website



TRS YouTube Channel



https://trs.ky.gov/videos

Search for TRS Kentucky YouTube

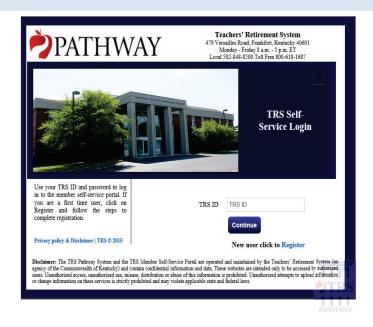
Topics Include:

Pathway Registration, Return to Work, Retiree Health Insurance, Turning 65 and Answering Common Questions



What is Pathway?

Pathway provides secure online access for members and retirees to access their TRS account information in real time.



What You Can Do in Pathway

- Edit or view personal information
- View active or payee account details
- Submit a request
- View schedule of upcoming seminars and webinars
- Vote in annual trustee elections
- Find links to TRS forms
- Submit health insurance applications



TRS News & Information



https://trs.ky.gov



facebook.com/KyTeachersRS







https://mss.trs.ky.gov/



@KyTeachersRS





Retired Return to Work



Bona Fide Retirement



- According to the IRS, a bona fide retirement means there can be no pre-arranged agreement for returning to work.
- TRS must maintain compliance with the IRS to remain a qualified retirement plan.



TRS Retired Return To Work

Purposes of KRS 161.605

Allow retirees to help schools meet needs Be actuarially sound

- making TRS contributions
- limits on days and earnings

Comply with federal law

- observing breaks in service
- no prearranged agreement



TRS Retired Return To Work

RTW Program	Permanent Rules				
Part time	3-month break, day and wage limits				
Full time	3- or 12-month break, wage limits				
Critical shortage part time	3-month break, day limits				
Critical shortage full time	3- or 12-month break				

Return to work, including which program is used, is at the employer's discretion.

TRS IIII KENTUCKY

Temporary Changes Made

- From 2022 General Assembly regular session
- Provides temporary changes *only for local school districts* to address staffing concerns
- Relaxes certain aspects of RTW programs
- Law sunsets June 30, 2024, when all rules revert to permanent provisions



What Does Not Change for RTW?

- Federal and state laws continue to prohibit any member from having an agreement before retirement to return to work for any TRS employer in any position. For local school districts, this is regardless of whether position is certified or classified.
- Retirees returning in part- or full-time program still have limitation on wages (and potentially days).
- Reciprocity retirees must meet breaks in service for each system.
- Retirees must drop health insurance coverage through TRS if eligible for health insurance through employment.



Questions?

Visit TRS website for detailed RTW information https://trs.ky.gov/retired-members/returning-to-work/

View presentation for retirees on permanent RTW rules https://trs.ky.gov/home/seminars-workshops/videos/#RTWEmployeeVid

Permanent RTW presentation for non-university employers https://trs.ky.gov/home/seminars-workshops/videos/#RTWvidnonuemployer

Contact TRS

800-618-1687 or info@trs.ky.gov



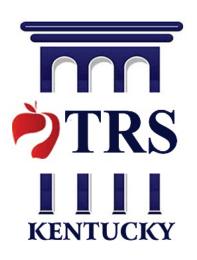


Issues Ahead



Doing It Right

What That Means at TRS



Providing security for Kentucky's retired teachers using a long-term investing process proven and refined over decades, avoiding the whims of the day, to achieve top returns on investments at the lowest costs.



Our Members Come First!

800-618-1687

8 a.m. – 5 p.m. ET Monday – Friday

info@trs.ky.gov https://trs.ky.gov

Protecting & Preserving Teachers' Retirement Benefits

TO: Board of Trustees of the Teachers' Retirement System of the State of Kentucky

FROM: Gary L. Harbin, CPA

Executive Secretary

DATE: September 19, 2022

SUBJECT: Report of the Governance and Audit Committee

The Governance and Audit Committee will meet on September 19 before the meeting of the Board of Trustees to consider a report from staff concerning a request for proposals for incident response and digital forensic services.

The committee will report to the board at the board's quarterly meeting.

APPENDIX TO SEPTEMBER 19, 2022 QUARTERLY BOARD OF TRUSTEES MEETING

Attached is an updated Retirement Annuity Performance Report. The report presented to the board on September 19, included a typographical error in that the 1-year Policy Benchmark was expressed as 9.18% instead of negative 9.18%.

Teachers' Retirement System of the State of Kentucky Retirement Annuity Trust Quarterly Investment Performance

Gross Returns

For the Period Ended June 30, 2022

	M	arket Value	Last Qtr	FYTD	1-Year	3-Year*	5-Year*	10-Year*	20-Year*
TOTAL PLAN	\$	22,426,147,424.09	-10.18	-10.68	-10.68	7.09	7.58	8.83	7.15
Policy Benchmark			-10.91	-9.18	-9.18	6.79	7.42	8.55	-
Total Equity	\$	12,373,996,194.48	-16.38	-19.52	-19.52	7.37	7.96	10.52	7.76
Domestic Equity	\$	8,408,434,038.04	-17.51	-16.12	-16.12	9.73	10.05	12.48	8.90
S&P 1500 Index			-16.02	-11.02	-11.02	10.29	10.92	12.79	9.05
All-Cap Equities	\$	481,706,896.34	-16.34	-13.64	-13.64	12.92	11.47	-	-
Russell 3000 Index			-16.70	-13.87	-13.87	9.77	10.60	-	-
Large-Cap Equities	\$	6,814,860,157.49	-17.81	-15.65	-15.65	10.22	10.46	12.62	-
S&P 500 Index			-16.10	-10.62	-10.62	10.60	11.31	12.96	-
Mid-Cap Equities	\$	664,867,175.08	-16.68	-20.63	-20.63	4.60	7.09	11.43	-
S&P 400 Index			-15.42	-14.64	-14.64	6.87	7.00	10.90	-
Small-Cap Equities	\$	446,999,809.13	-15.15	-19.04	-19.04	6.51	6.58	11.19	-
S&P 600 Index			-14.11	-16.81	-16.81	7.30	7.20	11.26	-
International Equity	\$	3,965,562,156.44	-13.89	-26.28	-26.28	2.64	3.97	6.33	-
MSCI AC World Ex US			-13.54	-19.01	-19.01	1.81	2.98	5.31	-
Fixed Income	\$	3,697,099,773.81	-4.86	-10.23	-10.23	-0.32	1.49	2.19	4.30
Bloomberg Barclays Govt/Credit Index			-5.03	-10.85	-10.85	-0.77	1.05	1.67	3.71
Real Estate	\$	1,693,627,935.30	6.54	26.93	26.93	12.30	11.65	11.14	10.01
In House Real Estate Equity	\$	402,120,071.65	0.96	4.04	4.04	3.59	6.71	7.46	8.22
CPI plus 2%			3.16	11.17	11.17	7.07	5.96	4.65	4.51
Core Real Estate	\$	810,649,626.87	7.16	31.14	31.14	13.39	11.35	11.64	-
NCREIF ODCE (VW) Index			4.77	29.51	29.51	12.66	10.54	11.16	-
Non-Core Real Estate	\$	480,858,236.78	10.50	44.80	44.80	19.63	16.67	17.46	-
NCREIF Property Index			3.23	21.45	21.45	10.22	8.86	9.67	-
Private Equity	\$	1,808,795,203.96	3.56	26.68	26.68	20.73	18.93	14.90	-
Mature Private Equity	\$	963,962,084.36	6.34	26.80	26.80	19.20	17.16	12.77	-
S&P 500 Index plus 3%			-15.48	-7.93	-7.93	13.92	14.65	16.35	-
Private Equity < 5 Years	\$	844,833,119.60	2.36	30.51	30.51	24.22	21.72	-	-
Timberland	\$	483,469,602.68	1.46	9.88	9.88	2.69	1.10	3.45	-
NCREIF Timberland Index			1.87	12.01	12.01	5.03	4.32	5.73	-
Additional Categories	\$	1,950,569,831.47	-4.88	-1.70	-1.70	3.60	4.52	5.63	-
B of A Merrill Lynch U.S. High Yield Master II Index			-9.99	-12.69	-12.69	-0.05	1.95	4.40	-
Cash (Unallocated)	\$	418,588,882.39	0.30	0.35	0.35	0.56	1.08	0.64	1.37
90 Day T-Bill			0.11	0.17	0.17	0.63	1.11	0.63	1.20

Total Trust Gross Return for 30-year period*

FINAL

7.75

^{*}Returns are annualized for periods longer than one year

^{**} Prior to July 1, 2008, TRS did not benchmark overall fund performance. Effective July 1, 2008, the Board of Trustees approved a Policy Index that represents the returns of appropriate benchmarks for the various asset classes weighted by the mid-point of the strategic range for the current fiscal year.

Teachers' Retirement System of Kentucky

Quarterly Investment Update For the period ended June 30, 2022

(\$ in millions)	\$'s	6/30/2022 Actual %	3/31/2022 Actual %	Target %	Strategic Ranges
Domestic Equities	\$8,408.4	37.5%	42.3%	40.0%	34.0 - 48.0%
Real Estate	1,693.6	7.6%	6.6%	7.0%	4.0 - 10.0%
Alternative Inv.	2,292.3	10.2%	7.9%	7.0%	4.0 - 10.0%
International Equities	3,965.6	17.7%	18.8%	22.0%	18.0 - 25.0%
Fixed Income	3,697.1	16.4%	14.8%	15.0%	8.0 - 22.0%
Addtl Categories	1,950.5	8.7%	8.0%	7.0%	4.0 - 15.0%
Cash	418.6	1.9%	1.6%	2.0%	1.0 - 5.0%
Total	\$22,426.1	100.0%	100.0%	100.0%	

