



Kentucky Judicial Retirement Plan

ACTUARIAL VALUATION REPORT

as of July 1, 2023

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Introduction

An actuarial valuation of the Kentucky Judicial Retirement Plan (“KJRP”) has been performed as of July 1, 2023. Actuarial valuations are based on the integrity of employee data, plan asset data, plan provisions and an extensive set of assumptions regarding future events. There is necessary uncertainty with any actuarial calculation based on the accuracy of the data provided, the correct interpretation of plan provisions and the realization of the assumptions made. These results were based on participant data and asset information provided by the Kentucky Judicial Form Retirement System. This information was not audited but was reviewed for reasonableness.

Detailed explanations of the actuarial assumptions and methods used in the report are contained in later sections of this report. Also included in this report is a summary of the provisions of the plan as we understand them.

This report provides details on the actuarial valuation underlying the required contribution to the KJRP for plan years commencing in 2024 and 2025. This determination was performed pursuant to Kentucky Revised Statute (“KRS”) §21.525 for the retirement system defined in KRS §21.350 to §21.580.

Governmental Accounting Standards Board Statement 67 (“GASB 67”) and Statement 74 (“GASB 74”) establish financial reporting standards for defined benefit pension plans and other postemployment benefit (OPEB) plans sponsored by employers that are subject to governmental accounting standards. Governmental Accounting Standards Board Statement 68 (“GASB 68”) and Statement (“GASB 75”) provide standards for reporting pension and OPEB expenditures and expense, and related liabilities and assets for such plans. The purpose of this report is to provide pertinent financial statement disclosure information for the fiscal year ending in 2023. Actuarial computations under Statements 67, 68, 74, and 75 are for purposes of fulfilling plan and employer governmental accounting requirements and may not be appropriate for other purposes. This report has been prepared on a basis consistent with our understanding of the statements and does not constitute legal, accounting, tax or investment advice.

Statements 68 and 75 set forth a methodology for the calculation of the annual Pension Expense for the upcoming fiscal year. GASB 68 and GASB 75 provide a method for reflecting prior gains and losses from asset and plan experience, as well as other areas including plan amendments. Amounts not reflected previously or in the upcoming year are reflected in the Deferred Outflows and Inflows of Resources shown.

USI Consulting Group does not have access to and is not providing information concerning liabilities other than benefits, such as for legal or accounting fees.

USI Consulting Group is not aware of any significant events subsequent to the current year’s measurement date that could materially affect the information contained in this report.

We are not aware of any relationship between the plan or plan sponsor and USI Consulting Group which would impair or appear to impair our objectivity.

To the best of our knowledge, all information provided in this report is complete and accurate and disclosures for GASB purposes have been determined in accordance with generally accepted accounting principles.



Consolidation of Traditional and Hybrid Tier Reports

Beginning with the July 1, 2021 valuation report, the traditional and hybrid tiers of KJRP have been treated as one plan for all calculations. All results prior to July 1, 2021 contained in this report have been combined from the results reported in the separate traditional and hybrid tier reports prepared in prior years. Effective July 1, 2021, separate valuation reports will not be prepared and all results contained will be calculated based on the full plan containing both tiers of benefits.



Summary of Report

An actuarial valuation of the Kentucky Judicial Retirement Plan (“KJRP”) was conducted as of July 1, 2023. The purpose of the valuation is to determine the cost implications of the plan including a determination of annual funding levels for the fiscal years beginning July 1, 2024 and July 1, 2025.

It is our understanding that this plan is a “governmental plan” as defined in Internal Revenue Code Section 414(d) and this report has been prepared on that basis.

On the basis of the valuation, it has been determined that the annual funding requirements for the State for the fiscal year beginning in 2024 for the plan, prior to adjusting with interest, as described in the Summary of Benefits section of this report, are as follows:

	Total Amount	Percent of Payroll
Annual Required Contribution	\$ 619,386	2.23%

The Annual Required Contribution is determined based on assumptions and methods set forth in the statute and established by the KJRP Investment Committee and is calculated using asset and liability values as of July 1, 2023. This amount is used to determine contributions for the fiscal years beginning July 1, 2024 and July 1, 2025.

Due to the lag period between the calculated date and the actual contributions, we have adjusted the Annual Required Contributions for the plan years 2024-2025 and 2025-2026 with one and two years of interest, respectively, at the interest rate assumption of 6.50%.

	2024-2025 (1 year of interest)	2025-2026 (2 years of interest)
Annual Required Contribution (with interest)	\$ 659,646	\$ 702,523



Summary of Selected Plan Information ¹

	Plan Year Beginning			
	7/1/2023	7/1/2021	7/1/2019	7/1/2017
Number of Participants				
Active	201	231	238	249
Terminated Vested	12	14	15	17
Retired	323	280	279	258
Beneficiaries	82	76	75	74
Total	618	601	607	598
Average Age (for actives)	56.0	57.4	56.1	56.1
Average Service (for actives)	14.2	15.1	13.9	13.9
Annual Covered Payroll	\$ 27,737,444	\$ 29,536,690	\$ 30,565,661	\$ 30,287,212
Average Salary	137,997	127,864	128,427	121,635
Accrued Liability	431,781,314	418,924,461	416,530,326	414,877,786
Actuarial Asset Value	532,360,754	466,695,975	399,205,837	353,312,184
Market Asset Value	562,778,076	582,355,568	431,034,410	371,858,379
Unfunded Accrued Liability (UAL)	(100,579,440)	(47,771,514)	17,324,489	61,565,602
Annual Funding Level ²				
State Portion of Normal Cost	\$ 2,750,503	\$ 3,378,976	\$ 2,615,810	\$ 3,285,125
Expected Employee Contributions	1,239,065	1,590,171	1,632,756	1,592,124
Total Normal Cost	3,989,568	4,969,147	4,248,566	4,877,249
State Annual Required Contribution	619,386	4,677,718	6,336,194	8,732,274
Percent of Covered Payroll	2.23%	15.84%	20.73%	28.83%

¹Our current understanding of IRS regulations is that they prohibit the use of surplus OPEB assets for retirement benefits. We recommend continuing discussions with plan council on possible options. Please refer to page 10 of this report for the asset and liabilities split between the Pension and OPEB plans.

²In accordance with KRS 21.405 (does not recognize cost of living increases effective after the most recent valuation date) and KRS 21.525 (legally prescribed funding method).

Legislative and Regulatory Background

State statutes were amended in 2013 such that all participants entering KJRP on or after January 1, 2014 will be covered under a hybrid cash balance/OPEB tier; those entering before that date will continue to be covered under the traditional defined benefit/OPEB tier. The legislation making this change also restricted the availability of future cost-of-living adjustments (COLA's) to plan benefits.

Sensitivity analysis along with 30-year projections of results (before and after any assumption changes) have been included in this report pursuant to HB 238, passed in 2016.

Senate Bill 32, effective on July 13, 2022, changed the amortization method of the unfunded liability in the calculation of the Annual Required Contribution for valuations as of July 1, 2023 and later. This method is described in detail in the Actuarial Methods section later in this report.



Actuarial Soundness

A plan that has adopted a reasonable funding method, that adopts reasonable assumptions and which contributes at a rate at or above the recommended contribution rate (based on these reasonable methods and assumptions), could be considered to be actuarially sound.

In order to ensure KJRP is funded in an “actuarially sound manner”, we would recommend the following:

1. Reflect a 1.5% future COLA assumption when calculating the funding requirement for KJRP, to the extent future cost-of-living increases are expected to occur, or intended to be provided.
2. Contribute at least the recommended contribution each year.

Deviations from these recommendations may result in an “actuarially unsound” approach to funding KJRP and may eventually result in KJRP becoming insolvent – that is, exhausting assets at which time all future benefits would be provided on a pay as you go basis.

Although the Actuarial Standards of Practice 4 “Measuring Pension Obligations” allows for plan liabilities to be calculated under a legally prescribed method, the statement goes on to say,

“If, in the actuary’s professional judgment, such an actuarial cost method or amortization method is significantly inconsistent with the plan accumulating adequate assets to make benefit payments when due, assuming that all actuarial assumptions will be realized and that the plan sponsor or other contributing entity will make contributions when due, the actuary should disclose this.”

It is our professional actuarial opinion that the current legally prescribed method, which (per KRS 21.405) does not recognize cost of living increases effective after the most recent valuation (assuming future increases are expected), is inconsistent with the plan accumulating adequate assets to make benefit payments when due, assuming all actuarial assumptions are realized.

In addition, the required employee contribution of 1% of pay is potentially greater than the value of the Medical Premium Supplement for the Hybrid Tier. The Medical plan is currently significantly overfunded and, without any changes, is expected to be increasingly overfunded going forward.



Changes in Actuarial Assumptions

The following changes were made to the actuarial assumptions effective June 30, 2023:

	<u>Previous</u>	<u>Current</u>
Medical Trend Rates	6.25% decreasing to 5.75% over 2 years and following the Getzen model thereafter until reaching an ultimate rate of 4.04% in the year 2075	6.25% decreasing to 5.20% over 2 years and following the Getzen model thereafter until reaching an ultimate rate of 3.94% in the year 2075

The medical claims aging table change described above resulted in a decrease in liabilities and no change in the annual required contribution.

Summaries of the plan provisions, actuarial assumptions and methods can be found in the Basis of Valuation section of this report.



Actuarial Certification

The information contained in this document (including any attachments) is not intended by USI Consulting Group, to be used, and it cannot be used, for the purpose of avoiding penalties under the Internal Revenue Code that may be imposed on the taxpayer. The information and valuation results shown in this report are, to the best of our knowledge, complete and accurate and are based upon the following:

1. Employee census data as of July 1, 2023, submitted by the Kentucky Judicial Form Retirement System. This data was not audited by us but appears to be sufficient and reliable for purposes of the report.
2. Financial data as of June 30, 2023, submitted by the Kentucky Judicial Form Retirement System. This data was not audited by us but appears to be sufficient and reliable for purposes of the report.
3. Actuarial assumptions and methods as established either by statute or the KJRP Investment Committee. The actuarial assumptions currently adopted by the Committee appear to be reasonable, both individually and in aggregate. However, exclusion of retiree cost-of-living adjustments that could be reasonably anticipated to occur in future years (or for which there is an intent to provide in future years) would not reflect our best estimate of expected experience under the plan. As such, the valuation results presented in this report do not fully reflect the potential liability for future retiree cost-of-living adjustments.
4. In our opinion, the assumptions selected are not expected to have a significant bias. That is, the results shown should not be overly optimistic or pessimistic.
5. For purposes of GASB 67, 68, 74, and 75 disclosures, assets were split between pension and retiree medical liabilities on the basis of accrued liability as of July 1, 2008 and have been brought forward each year from that date based on actual cash flows and a prorata allocation of investment return. This methodology, initiated by the prior actuary, was based on guidance from the plan's auditor.

We believe the information is sufficiently complete and reliable. This report provides actuarial advice and does not constitute legal, accounting, tax or investment advice.



The actuarial valuation summarized in this report has been performed utilizing generally accepted actuarial principles. It is our opinion that the results fully and fairly disclose the actuarial position of the plan on the valuation date. We are senior consultants for USI Consulting Group, members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein.

Certified by:

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Senior Actuarial Consultant

October 23, 2023

Date

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October 23, 2023

Date

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Annual Required Contribution

Determination of Annual Required Contribution as of July 1, 2023

1. Accrued Liability	<u>Pension</u>	+	<u>OPEB</u>	=	<u>Total</u>
Actives					
Actives	96,222,818		-		96,222,818
Medical Premium Supplement	-		18,672,225		18,672,225
Total Active Liability	<u>96,222,818</u>		<u>18,672,225</u>		<u>114,895,043</u>
Inactives					
Retired	252,323,920		-		252,323,920
Deferred Vested	1,909,492		-		1,909,492
Beneficiaries	32,058,830		-		32,058,830
Medical Premium Supplement	-		30,594,029		30,594,029
Total Inactive Liability	<u>286,292,242</u>		<u>30,594,029</u>		<u>316,886,271</u>
Total Accrued Liability	382,515,060		49,266,254		431,781,314
2. Valuation Assets	404,534,407		127,826,347		532,360,754
3. Unfunded Past Service Liability	(22,019,347)		(78,560,093)		(100,579,440)
4. Gross Normal Cost					
Retirement Related	3,288,360		-		3,288,360
Medical Premium Supplement Related	-		701,208		701,208
Total Normal Cost	<u>3,288,360</u>		<u>701,208</u>		<u>3,989,568</u>
5. Annual Covered Payroll	27,737,444		27,737,444		27,737,444
6. Estimated Employee Contributions for the Next 12 Months	1,150,045		89,020		1,239,065
7. Net Normal Cost (4 - 6)	2,138,315		612,188		2,750,503
8. Estimated Administrative Expenses	357,500		46,100		403,600
9. Amortization of Unfunded Liability	(1,876,429)		(6,694,677)		(8,571,106)
10. Preliminary Annual Required Contribution (max (0, 7 + 8 + 9))	619,386		-		619,386
11. Payment as a Percentage of Covered Payroll (10 / 5)	2.23%		0.00%		2.23%



Liability Breakdown

	<u>Pension</u>	<u>OPEB</u>
Traditional Tier	\$ 378,577,934	\$ 48,952,416
<u>Hybrid Tier</u>	<u>3,937,126</u>	<u>313,838</u>
Total	\$ 382,515,060	\$ 49,266,254

Gross Normal Cost Breakdown

	<u>Pension</u>	<u>OPEB</u>
Traditional Tier	\$ 2,574,267	\$ 634,570
<u>Hybrid Tier</u>	<u>714,093</u>	<u>66,638</u>
Total	\$ 3,288,360	\$ 701,208

Estimated Employee Contribution Breakdown

	<u>Pension</u>	<u>OPEB</u>
Traditional Tier	\$ 704,943	\$ -
<u>Hybrid Tier</u>	<u>445,102</u>	<u>89,020</u>
Total	\$ 1,150,045	\$ 89,020



Estimated Cost of a One-Time COLA as of July 1, 2023

It is our understanding, effective July 1, 2013, that any future COLA's must be pre-funded (either by additional contributions or by excess assets).

Approximate Cost of One Time 1.5% COLA

1. Liability In Payment	
a) Retired	252,323,920
b) Beneficiaries	32,058,830
Total Liability In Payment	<u>284,382,750</u>
2. Desired COLA Percentage	1.50%
3. Estimated Cost of One Time COLA for First Year (1 * 2)	4,265,741*
4. Estimated Cost of One Time COLA for Second Year (3 * 1.015)	4,329,727*

* Cost of 1.5% COLA increase applied to all members in pay status as of the valuation date.



Actuarial Asset Value

Determination of Actuarial Asset Value as of July 1, 2023

	2022-23 Plan Year	2021-22 Plan Year	2020-21 Plan Year	2019-20 Plan Year
Interest Return Assumption	6.50%	6.50%	6.5% (4.0% hybrid)	6.5% (4.0% hybrid)
Market Value at Beginning of Year				
Amount	\$ 510,224,891	\$ 582,355,568	\$ 440,345,549	\$ 431,034,410
Interest to End of Year	33,164,618	37,853,112	28,576,747	27,984,359
Employer Contributions				
Amount	4,981,800	7,147,500	6,770,812	8,732,300
Interest to End of Year	161,909	232,294	217,514	282,615
Member Contributions				
Amount	2,086,957	2,458,886	1,995,925	1,799,040
Interest to End of Year	67,826	79,914	60,941	55,048
Transfers from KERS				
Amount	-	-	-	-
Interest to End of Year	-	-	-	-
Benefits Paid				
Amount	28,941,123	26,890,013	26,215,094	26,389,189
Interest to End of Year	940,586	873,925	851,924	857,649
Expected End of Year Assets	520,806,292	602,363,336	450,900,470	442,640,934
Market Value at End of Year	562,778,076	510,224,891	582,355,568	440,345,549
Investment Gain (Loss)	41,971,784	(92,138,445)	131,455,098	(2,295,385)
Adjustment Percentage	80%	60%	40%	20%
Actuarial Asset Value Adjustment	(33,577,427)	55,283,067	(52,582,039)	459,077
Actuarial Asset Value (Market Value plus Adjustment)	\$ 532,360,754			

	Retirement	Medical Supplement
Market Value at Beginning of Year	\$390,889,642	\$119,335,249
State Contributions	4,981,800	-
Member Contributions	2,008,426	78,531
Transfers In Payments	-	-
Distributions	26,786,774	2,154,349
Allocated Investment Return	56,555,063	17,870,488
Market Value at End of Year	\$427,648,157	\$135,129,919
Allocation of Actuarial Asset Value	\$404,534,407	\$127,826,347



Summary of Benefits (Pension - Traditional Tier)

This summary is not a Summary Plan Description or a plan document. You should not rely solely on this summary in making a determination of eligibility of benefits. Liabilities and plan provisions are based on the plan data and provisions as of July 1, 2023.

Source

Sections 21.345-21.580 of the Kentucky Revised Statutes.

Eligibility for Membership

District, Circuit, Court of Appeals and Supreme Court Judges may, within 30 days after taking office, elect to make monthly contributions, and thereby become eligible for membership in the KJRP plan. Individuals commencing participation on or after January 1, 2014 will participate in the hybrid tier.

Employee Contributions

Members entering the plan on or after September 1, 2008 must contribute 6% of their “official salary”. Members entering the plan prior to September 1, 2008 must contribute 5% of their “official salary”. Once a member has earned sufficient service credit to have accrued a benefit of 100% of final average compensation, then employee contributions shall cease.

Normal Retirement

Condition

Members who have completed at least 8 years of service and have attained age 65. However, the age 65 requirement shall be reduced by one year for each five years of service, and one year for each year beyond the years of service needed to accrue a benefit of 100% of final average compensation, but with total reduction not to reduce the age requirement below 60. The full accrued benefit will also be payable upon completion of 27 years of service.

For purposes of determining years of service for vesting only, years of service under other authorized state systems will count.

Benefit Formula

The monthly retirement income, payable for the member’s lifetime, is based on the following formula:

Members who first participated before July 1, 1978, 5% of final average compensation multiplied by years of service, so long as his service continues without interruption. In no event shall the monthly retirement benefit exceed 100% of final average compensation. (Final average compensation means the average monthly compensation of the member for the 60 months of service immediately preceding retirement date, except for retirements occurring between January 1, 2003 and January 1, 2009, which shall use 36 months).



For an individual who first participated, or renewed former participation, between July 1, 1978 and June 30, 1980 the benefit shall be 4.15% of average compensation multiplied by years of service not to exceed 100% of average compensation.

For all other individuals, the benefit shall be 2.75% of average compensation multiplied by years of service not to exceed 100% of average compensation.

Early Retirement

Members who retire prior to normal retirement date with at least 8 years of service have two alternatives with regard to receiving retirement income as follows:

1. Upon reaching normal retirement age, the member may be vested with the right to receive a monthly service retirement allowance computed and payable on the basis of years of service and average salary for the 60 months prior to retirement, or
2. A member may elect to be paid, commencing as of the date of the election, a monthly service retirement allowance equivalent to the amount of monthly allowance that would have been paid had the member waited until reaching normal retirement age, but reduced in accordance with age at the time of election for each year under normal retirement age at the rate of 5% per year.

If the member has 27 or more years of service credit, there shall be no reduction for benefit commencement prior to normal retirement age. If the difference between the number of years of total governmental service and 27 is less than the difference between actual age and normal retirement age, the reduction shall be 5% for each year of service under 27.

Late Retirement

A judge may continue service beyond normal retirement age and continue to accrue service credits, but cannot receive a benefit in excess of 100% of final average compensation.

Disability Benefit

Condition

No service requirement.

Benefit

Upon determination of disability, a member will be eligible to receive $\frac{1}{2}$ of the monthly retirement income that would have been payable commencing at normal retirement date if this member had continued service until that date and then retired. In calculating the retirement income, average salary for the 5 years preceding disability will be used. When a disabled member reaches normal retirement date, the member may apply and start receiving the full amount of retirement income that would have been payable based upon the actual number of years of service and compensation, in lieu of the disability benefit.



Death Benefit

Upon the death of a member who at the time of death was receiving a retirement income (other than an actuarially reduced income), or was receiving a disability income, the surviving spouse (if married to the member at the time of retirement) is entitled to receive a monthly allowance equal to $\frac{1}{2}$ of what the member was receiving for his/her lifetime.

If a member dies after retirement, and was at the time receiving an actuarially reduced allowance, or was not receiving an allowance, but had acquired a vested right to have received an allowance upon reaching normal retirement date, the surviving spouse (if married to the member at the time of retirement) is entitled to receive $\frac{1}{2}$ of the monthly allowance the member would have received at normal retirement date for his/her lifetime.

If an active member dies before retirement and before reaching normal retirement age, without regard to length of service, the surviving spouse is entitled to receive a monthly allowance payable for his/her lifetime equal to $\frac{1}{2}$ of the monthly retirement income the member would have received commencing at the member's normal retirement date as if the member had continued in service until that date and then retired, computed on the basis of final compensation at the time of death.

If a member dies before retirement and after reaching normal retirement date, the surviving spouse is entitled to receive a monthly allowance payable for his/her lifetime equal to $\frac{1}{2}$ of the monthly allowance the member would have been entitled to on the basis of years of service, had the member retired on his date of death, computed on the basis of final compensation at the time of death.

If a member is not married at the time of death, any death benefits described above to which a surviving spouse would have been entitled will be payable to the children of the deceased member until such time as the youngest child attains age 21, or for the life of a disabled child. Also, a member may designate that survivor benefits shall go in part or in total to minor children instead of the spouse.

If cumulative payments to the member and/or beneficiary do not exceed the member's total contributions to this plan, then the excess of such contributions over cumulative plan benefits paid shall be paid as an additional death benefit.

Termination Benefit

If a Judge ceases to be a member of the plan other than by death or disability without having completed at least 8 years of service, then the amount of the member's accumulated contributions shall be returned to the member. If, thereafter, this individual again becomes a holder of an office qualifying for membership in this plan then this individual shall not be entitled to credit for the prior period of service unless, at the time he again participates in the plan, the amount previously refunded is repaid with interest.

Excess Benefit

Certain members of this plan have benefits that exceed the 415(b) dollar limit. These members have an excess benefit for the amount that exceeds this dollar limit. This excess benefit is included in this plan's liabilities and is paid out of this plan's assets.



Cost-of-Living Adjustment

Ad hoc cost-of-living adjustments (COLA's) have been granted as noted below:

Effective Date of Increase	Percentage Increase	Increase Applies To Benefits Based on Service Prior To
7/1/1986	5%	6/30/1980
7/1/1988	5%	6/30/1982
7/1/1989	5%	6/30/1982
7/1/1990	5%	6/30/1990
7/1/1991	5%	6/30/1991
7/1/1993	3%	6/30/1993
7/1/1994	5%	6/30/1994
7/1/1995	5%	6/30/1995
7/1/1996	None	N/A
7/1/1997	None	N/A
8/1/1998	2.3%	N/A
7/1/1999	1.6%	N/A
7/1/2000	2.2%	N/A
7/1/2001	3.4%	N/A
7/1/2002	2.85%	N/A
7/1/2003	1.6%	N/A
7/1/2004	2.3%	N/A
7/1/2005	2.7%	N/A
7/1/2006	3.4%	N/A
7/1/2007	3.2%	N/A
7/1/2008	2.8%	N/A
7/1/2009 and later*	1.5%	N/A

*COLA's were suspended for fiscal years beginning in 2012 and later; COLA's after 7/1/2013 are not reflected in this valuation. No further COLA's will be granted without Board approval.

In addition, a provision for an on-going cost-of-living adjustment is made by statute. Effective August 1, 1998 and each July 1 thereafter, a recipient of a monthly pension shall receive a cost-of-living adjustment keyed to the Consumer Price Index. This COLA is excluded from the inviolable contract and can be repealed by the General Assembly at any time. Beginning July 1, 2009, if granted, this cost-of-living adjustment will be 1.50% for all retirees who have been retired in excess of one year and prorated for those retired less than one year.

Pursuant to statutory requirements, COLA increases are not reflected in plan liabilities until granted, except for any anticipated COLA adjustments under the provision as in effect prior to August 1, 1998.



Summary of Benefits (Pension - Hybrid Tier)

Source

Sections 21.345-21.580 of the Kentucky Revised Statutes. {See 2013 Senate Bill 2}.

Eligibility for Membership

District, Circuit, Court of Appeals and Supreme Court Judges may, within 30 days after taking office, elect to make monthly contributions, and thereby become eligible for membership in the KJRP-HT plan. Individuals commencing participation before January 1, 2014 became participants in the KJRP.

Hypothetical Member Accounts

The Hypothetical Member Account for each member is credited monthly with 9% of “creditable compensation” (including a 5% employee credit and a 4% state credit), as well as interest as described below. The Hypothetical Member Account balance on June 30 each year is equal to the sum of all prior contribution credits and all prior interest credits.

Employee Contributions

All members contribute 5% of their “creditable compensation” to help fund their pension benefit. Additionally, all members contribute 1% of their “creditable compensation” towards the retiree medical benefit.

State Contributions

The state contributes actuarially determined amounts to finance benefits.

Creditable Compensation

Creditable compensation is based on actual compensation received during each year.

Interest on Hypothetical Member Accounts

The Hypothetical Member Account will be credited with 4% annually. The credit will be applied on each June 30 based upon the Hypothetical Member Account balance from the preceding June 30. No interest credit is provided for contribution credits made in the current year.

Additionally, if the geometric average net investment return for the prior five years (or years since the effective date of the hybrid plan, if less) exceed 4%, members who were active and participating in the prior year will have their hypothetical accounts credited with 75% of the amount of the return over 4%. This additional interest credit is applied in the same method as the interest credit in the prior paragraph.



Normal Retirement

Condition

Members who have attained age 65 and completed at least 5 years of service. However, for members who are at least age 57, members may retire if age plus service equals 87 years.

Benefit

A member will receive their accumulated Hypothetical Account as either a lump sum or as one of a variety of annuity options, calculated by dividing their accumulated Hypothetical Account by an actuarial factor.

Early Retirement

A member who retires prior to normal retirement date with at least 5 years of service is eligible for a full refund of their accumulated Hypothetical Account as a lump sum.

Termination Benefit

If a judge ceases to be a member of the plan prior to having 5 years of service, the amount of the member's accumulated contributions shall be returned to the member, including the member contributions and the interest applicable to this portion of the account. A member terminating with less than 5 years of service does not receive a refund of state contributions nor the interest applicable to this portion of the account.

Death Benefit

Upon the death of a member who at the time of death was receiving a retirement income, the named beneficiary shall receive survivor benefits based upon the form of retirement benefits being received.

If a member with at least 5 years of service dies before retirement, the named beneficiary is entitled to receive a full refund of the accumulated Hypothetical Member Account. If a member with less than 5 years of service dies before retirement, the named beneficiary is entitled to receive a refund of the member's accumulated contributions, including the member contributions and the interest applicable to this portion of the account.



Summary of Benefits (OPEB Plan)

Eligibility

For those hired prior to January 1, 2014, participants and their covered dependents are eligible under the same requirements as in the KJRP Traditional Tier. For those hired on or after January 1, 2014, participants and their covered dependents are eligible under the same requirements as in the KJRP Hybrid Tier.

Benefits

Retirees and their covered spouses are provided access to the State of KY group medical plan. Benefits for eligible retirees and their covered spouses are provided for life.

Contributions

Traditional Tier

Retirees and their covered spouses are required to pay a portion of the medical insurance premiums to receive coverage under the group medical plan. The percentage will vary based on the number of years of service credit as follows:

<u>Years of Service Credit at Retirement</u>	<u>Percentage of Medical Insurance Premium Paid by the Plan</u>
20 or more	100%
15, but less than 20	75%
10, but less than 15	50%
4, but less than 10	25%
Less than 4	0%

Hybrid Tier

Retired members with at least 15 years of service, in addition to actual retirement benefits, will receive a monthly medical insurance benefit of ten dollars per year of service. The stipend can be used to decreased the cost of the member coverage only, and any excess cannot be used towards the cost of coverage for a spouse, dependent or beneficiary. The ten dollars per year of service was set as of January 1, 2014 and is set to increase with a 1.5% COLA each July 1.

All members contribute 1% of creditable compensation during active service. In addition, during retirement members must contribute the difference between the premium rates in effect that year and their monthly medical insurance stipend.



Actuarial Assumptions

Interest

6.5% per annum – this rate was selected by the KJRP Investment Committee and USI Consulting Group, and the Fund Investment Manager believe this to be a reasonable long-term rate of return assumption. This assumption reflects a 2.5% inflation assumption and a 4% real return assumption.

The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at the current statutory contribution rates. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, 6.5% was used for the discount rate/long-term rate of return assumption for GASB calculations.

Low-Default-Risk Obligation Interest rates

4.13% - S&P Municipal Bond 20-year High Grade Rate Index as of June 30, 2023

Mortality

PubG-2010 (A) Table with Pre and Post Commencement Rates with projected mortality improvements after year 2010 under Projection Scale MP-2020 (male and female scales); i.e., full generational mortality. For the OPEB Plan, the headcount weighted version of this table was used.

For the Hybrid plan, there is no pre-retirement mortality.

Terminations

None assumed

Salary Increases

1% for a rolling 5-year period beginning at the valuation date (currently effective through June 30, 2028) and 3.5% thereafter

Disability

None



Retirement Age

Retirements were assumed to occur as follow:

<u>Retirement Age</u>	<u>Percentage of Active Members Retiring</u>
NRA-5	15.00%
NRA-4	7.50%
NRA-3	7.50%
NRA-2	15.00%
NRA-1	20.00%
NRA	20.00%
Above NRA	33.33%*
Age 70	100.00%

NRA = Normal Retirement Age

In addition to these rates, for members of the traditional tier only, an extra 20% rate is assumed at the age a member reaches 27 years of service credit.

Post-Retirement Death Benefit

Assumption is that 70% of the judges would be married at retirement and the husband would be 3 years older than the wife on average.

Pre-Retirement Death Benefit

Assumption is that 70% of the judges would be survived by a spouse upon death prior to retirement and that the husband would be 3 years older than the wife on average.

Cost-of-Living Adjustment

Pursuant to statutory requirements, COLA increases are not reflected in plan liabilities until actually granted.

Expenses

Estimated administrative expenses (assumed to be \$403,600 effective for the 2023-24 plan year).



Medical Insurance Premium Supplement

Plan Participation

100% of future eligible retirees are assumed to elect coverage at retirement.

Marital Status

70% of future retirees are assumed to cover a spouse in retirement, which males assumed to be 3 years older than female spouses on average. Current retiree coverage elections are assumed to persist each year in the future.

Medical Claims Cost for 2023-24

For pre-Medicare, retiree only claims and enrollment history for the Judicial and Legislative groups combined was used to develop the assumed claims costs for current and future retirees. Monthly experience for the three years ending January 2023 was projected to the valuation year at 6.25%, weighted using the sum-of-digits method, and spread over the covered population using the Yamamoto aging factors. The cost shown in the table below is for a male, age 65.

For post-Medicare the fully insured retiree-only rated Medicare Advantage PPO rates were adjusted to the valuation period and used as the assumed claims cost per covered post-Medicare participant.

<u>Pre-65 Cost</u>	<u>Post-65 Cost</u>
\$ 16,865	\$ 4,263

Age Variance

Claims were adjusted downward using the aging factors in the Dale Yamamoto study released by the Society of Actuaries in June 2013 for attained ages 55 to 65. No aging was applied to the Medicare Advantage premium rates.

Health Care Cost Trend Rate

6.25% grading to 5.20% over 2 years and following the Getzen model thereafter until reaching an ultimate rate of 3.94% in the year 2075.

Administrative Expenses

Pre-Medicare administrative fees for the medical plan is assumed to be \$96 per annum per covered contract. Admin fees were assumed to increase 4% per year. Post-Medicare administrative fees are assumed to be included in the per capita claims cost.



Retiree Contribution Methodology

Traditional Tier

Retirees are required to pay a percentage of the premium rate in effect at retirement based on years of service, as described in the plan provisions section of the report. The total premium rates for 2023-24, before applying the percentage adjustment for service, are shown below:

<u>Participant Type</u>	<u>Pre-65 Cost</u>	<u>Post-65 Cost</u>
Member	\$ 10,696	\$ 4,263
Spouse	\$ 11,948	\$ 4,263

Hybrid Tier

Retirees are required to contribute 1% of creditable compensation during active service. Upon retirement, retirees must contribute the difference between the premium rates in effect each year and their monthly stipend.

The annual stipend amount for one year of service for the fiscal year ending June 30, 2024 is \$139.20 and is assumed to increase by 1.5% each July 1.

The total premium rates before the stipend for 2023-24 are the same as for the traditional tier:

<u>Participant Type</u>	<u>Pre-65 Cost</u>	<u>Post-65 Cost</u>
Member	\$ 10,696	\$ 4,263
Spouse	\$ 11,948	\$ 4,263

Coordination with Medicare

Benefits for retirees are deemed to be similar to those benefits provided for actives. The retiree medical plan is assumed to be the primary plan of benefits prior to age 65. It is assumed to pay benefits secondary to Medicare after attaining age 65.

Non-members

Judges electing not to participate are assumed to continue as non-members in the future.



Actuarial Methods

Funding Method

The actuarially calculated contribution is based on the methods and assumptions contained herein. The funded status of the plan would be different if market value of assets were used rather than actuarial value. The valuation of all benefits is based on the Entry Age Normal funding method. The actuarially determined contribution is generally based on the sum of the normal cost and a charge equivalent to a 20-year amortization of any current year's gains or losses, plus an additional charge for any amortization payments remaining for gains or losses that had occurred in prior years. If the plan has surplus assets, prior bases will be eliminated, and the surplus will be amortized over an open 20-year period. The normal cost represents the cost associated with one year of benefit accrual for active Plan participants plus plan expenses paid from the trust. The contribution policy is intended to fully amortize the unfunded liability in 20 years if all assumptions are realized.

Valuation Software

The actuarial liabilities shown in this report are determined using software purchased from an outside vendor which was developed for this purpose. Certain information is entered into this model in order to generate the liabilities. These inputs include economic and non-economic assumptions, plan provisions, and census information. We rely on the coding within the software to value the liabilities using the actuarial methods and assumptions selected. Both the input to and the output from the model is checked for accuracy and reviewed for reasonableness.



Asset Valuation Method

The determination of the actuarial value of assets is as follows:

1. Investment gains/losses are determined for each year by comparing the expected value of assets based on the assumed interest assumption to actual market value. Expected value of assets in each year shall be determined by projecting the market value of assets from the prior year using the assumed interest rate, plus contributions less benefit payments and plan expenses (adjusted with interest at the assumed rate). If the expected value of plan assets is different than the actual market value of plan assets then the difference is treated as a gain or loss for that year.
2. The amount of any gain or loss as determined above shall be recognized evenly over the subsequent five years.
3. The actuarial value of assets on any valuation date shall be equal to the market value of assets on that date adjusted as follows:
 - Reduced by 80% of a gain or increased by 80% of a loss from the preceding year
 - Reduced by 60% of a gain or increased by 60% of a loss from the 2nd preceding year
 - Reduced by 40% of a gain or increased by 40% of a loss from the 3rd preceding year
 - Reduced by 20% of a gain or increased by 20% of a loss from the 4th preceding year
4. In no event will the actuarial value of assets be less than 80% or greater than 120% of the current market value of assets

This asset valuation method is used in the determination of funding levels. The fair market value of assets is used for disclosure purposes under GASB Statement Nos. 67, 68, 74, and 75.

For purposes of GASB Statement Nos. 67, 68, 74, and 75, the market value of assets has been allocated between retirement related and medical premium supplement liabilities. This market value allocation is carried forward each year based on the following:

1. State and member contributions, as well as transfers for purchase of additional service, are allocated pro-rata reflecting the Annual Required Contribution for that year.
2. Benefits paid reflect actual benefits paid relative to retirement related benefits separately from medical premium supplements.
3. Preliminary assets are determined by adjusting beginning value for allocated State and member contributions and actual benefits paid.
4. Net investment return is allocated pro-rata based on the preliminary assets developed in the previous step.
5. Allocated assets as of the valuation date equal the preliminary balance plus the allocated share of investment income.

Actuarial value of assets is developed initially in total and then allocated between retirement related benefits and medical premium supplement benefits on a pro-rata basis reflecting allocated share of market value as of the valuation date.



GASB Statement No. 67

Statement of Changes in Fiduciary Net Position

	<u>June 30, 2023</u>
Additions	
Contributions:	
Employer	\$4,981,800
Employee	<u>2,008,426</u>
Total Contributions	6,990,226
Transfer In Payments	0
Investment Income	56,555,063
Other	<u>0</u>
Total Additions	63,545,289
Deductions	
Benefit Payments / Refunds	26,786,774
Administrative Expenses	0
Other	<u>0</u>
Total Deductions	<u>26,786,774</u>
Net Increase in Net Position	36,758,515
Net Position Restricted for Pensions	
Beginning of Year Market Value of Assets	<u>390,889,642</u>
End of Year Market Value of Assets	<u><u>\$427,648,157</u></u>



Net Pension Liability

Determination of Net Pension Liability

	<u>June 30, 2023</u>
Total Pension Liability (6.5%)	382,515,060
Plan Fiduciary Net Position (Market Value of Assets)	<u>(427,648,157)</u>
Net Pension Liability	<u><u>(\$45,133,097)</u></u>
Plan Fiduciary Net Position as a Percentage of Total Pension Liability	111.80%

Sensitivity of Net Pension Liability to Changes in the Discount Rate

	1% Decrease (5.5%)	Current Rate (6.5%)	1% Increase (7.5%)
Net Pension Liability	(\$9,358,638)	(\$45,133,097)	(\$75,861,841)

Schedule of Changes in the Net Pension Liability and Related Ratios (Dollar amounts in millions)

	fiscal year ending June 30									
	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Total Pension Liability										
Service cost	\$5.0	\$5.0	\$5.0	\$4.9	\$4.1	\$4.1	\$3.5	\$3.6	\$4.3	\$4.3
Interest	21.9	22.2	23.4	23.8	22.7	22.9	23.4	23.7	23.8	23.9
Changes of benefit terms	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Differences between expected and actual experience	0.0	4.4	0.0	(8.8)	0.0	(0.1)	0.0	(5.3)	0.0	4.4
Changes of assumptions	29.1	(4.4)	0.0	(2.1)	0.0	(7.7)	0.0	9.1	(5.9)	0.0
Benefit Payments / Refunds	(21.8)	(22.3)	(22.9)	(23.0)	(23.2)	(24.2)	(24.4)	(24.4)	(25.0)	(26.8)
Net Change in Total Pension Liability	\$34.2	\$5.0	\$5.5	(\$5.3)	\$3.7	(\$4.9)	\$2.5	\$6.7	(\$2.8)	\$5.8
Total Pension Liability - beginning	332.1	366.3	371.3	376.8	371.5	375.2	370.3	372.7	379.5	376.7
Total Pension Liability - ending (a)	\$366.3	\$371.3	\$376.8	\$371.5	\$375.2	\$370.3	\$372.7	\$379.5	\$376.7	\$382.5
Plan Fiduciary Net Position (Market Value of Assets)										
Contributions - employer	\$10.8	\$15.1	\$15.2	\$12.0	\$12.0	\$8.7	\$8.7	\$6.8	\$7.1	\$5.0
Contributions - employee	2.8	1.9	1.8	1.6	2.0	1.5	1.7	1.9	2.4	2.0
Transfer In Payments	1.6	0.2	0.1	0.0	0.6	0.0	0.0	0.0	0.0	0.0
Net investment income	33.2	25.6	8.7	34.6	27.1	38.6	19.5	122.8	(42.0)	56.5
Benefit Payments / Refunds	(21.8)	(22.2)	(22.9)	(23.0)	(23.2)	(24.2)	(24.4)	(24.4)	(25.0)	(26.8)
Administrative expenses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in Plan Fiduciary Net Position	\$26.6	\$20.7	\$2.9	\$25.2	\$18.4	\$24.6	\$5.6	\$107.1	(\$57.5)	\$36.7
Plan Fiduciary Net Position - beginning	217.3	243.9	264.6	267.5	292.7	311.1	335.7	341.3	448.4	390.9
Plan Fiduciary Net Position - ending (b)	\$243.9	\$264.6	\$267.5	\$292.7	\$311.1	\$335.7	\$341.3	\$448.4	\$390.9	\$427.6
Net Pension Liability - ending (a) - (b)	\$122.4	\$106.7	\$109.3	\$78.8	\$64.1	\$34.6	\$31.4	(\$68.9)	(\$14.2)	(\$45.1)
Plan Fiduciary Net Position as a % of the Total Pension Liability	66.6%	71.3%	71.0%	78.8%	82.9%	90.7%	91.6%	118.2%	103.8%	111.8%
Covered-employee payroll	\$32.9	\$31.9	\$31.9	\$30.3	\$30.6	\$30.6	\$30.9	\$29.5	\$29.8	\$27.7
Net Pension Liability as a % of covered-employee payroll	371.7%	334.5%	342.6%	260.1%	209.5%	113.1%	101.6%	(233.6%)	(47.7%)	(162.8%)
Discount Rate (traditional)	6.15%	6.41%	6.41%	6.24%	6.24%	6.47%	6.47%	6.50%	6.50%	6.50%
Discount Rate (hybrid)	n/a	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	6.50%	6.50%	6.50%



Schedule of Contributions

	fiscal year ending June 30									
	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Actuarially determined contribution ¹	\$15.2	\$15.1	\$15.2	\$12.0	\$12.0	\$9.3	\$9.9	\$6.7	\$7.9	\$5.0
Contributions in relation to the actuarially determined contribution	10.8	15.1	15.2	12.0	12.0	8.7	8.7	6.8	7.1	5.0
Contribution deficiency (excess)	\$4.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.6	\$1.2	(\$0.1)	\$0.8	\$0.0
Covered-employee payroll	\$32.9	\$31.9	\$31.9	\$30.3	\$30.6	\$30.6	\$30.9	\$29.5	\$29.8	\$27.7
Contributions as a percentage of covered-employee payroll	32.8%	47.3%	47.6%	39.6%	39.2%	28.4%	28.2%	23.1%	23.8%	18.1%

¹ Starting with the Fiscal Year Ending June 30, 2019, due to the lag period between the calculated date and the actual contributions, the Actuarially Determined Contribution has been adjusted with interest at the funding interest rate assumption.

Additional Requirements Under GASB Statement No. 67

GASB Statement No. 67 also requires a Statement of Fiduciary Net Position (which includes a breakdown of current assets by type) and additional investment information, including the annual money-weighted rate of return. In order to satisfy GASB Statement No. 67, these required pieces will need to be provided by the Kentucky Judicial Form Retirement System. USI Consulting Group is prepared to assist the system as needed.



GASB Statement No. 68

Schedule of Changes in NPL, Deferrals, & Pension Expense

	Increase (Decrease)			Deferred Pension Outflows of Resources	Deferred Pension Inflows of Resources	Pension Expense
	Total Pension Liability (a)	Plan Net Position (Assets) (b)	Net Pension Liability (a) - (b)			
Balances--at 06/30/2022	\$ 376,657,581	\$ 390,889,642	\$ (14,232,061)	\$ 64,580,220	\$ 68,104,019	
Changes for the Year:						
Service cost	4,270,153		4,270,153			4,270,153
Interest expense	23,962,280		23,962,280			23,962,280
Benefit changes						
Experience losses (gains)	4,411,820		4,411,820	2,205,910	-	2,205,910
Changes of assumptions	-		-	-	-	-
Contributions--State		4,981,800	(4,981,800)			
Contributions--Members		2,008,426	(2,008,426)			(2,008,426)
Transfer In Payments		-	-			
Net investment income		56,555,063	(56,555,063)			
Expected return on plan investments						(24,661,219)
Current expense of asset gain/loss						(6,378,769)
Non expensed asset gain/loss				-	25,515,075	
Refunds of contributions	-	-	-			
Benefits paid	(26,786,774)	(26,786,774)	-			
Plan administrative expenses						
Recognition of Prior Post-measurement Contribution				(4,981,770)		
Post-measurement Contribution				5,305,585		
Other changes						
Amortization of or change in beginning balances				(16,706,071)	(27,607,870)	(10,901,799)
Net Changes	<u>5,857,479</u>	<u>36,758,515</u>	<u>(30,901,036)</u>	<u>(14,176,346)</u>	<u>(2,092,795)</u>	<u>(13,511,870)</u>
Balances--at 06/30/2023	<u>\$ 382,515,060</u>	<u>\$ 427,648,157</u>	<u>\$ (45,133,097)</u>	<u>\$ 50,403,874</u>	<u>\$ 66,011,224</u>	<u>\$(13,511,870)</u>



Pension Expense & Deferred Outflows/Inflows of Resources

For the year ended June 30, 2024, the recognized pension expense/(income) will be (\$13,511,870). At June 30, 2024, the Kentucky Judicial Form Retirement System reported deferred outflows of resources and deferred inflows of resources in relation to pensions from the following sources:

	As of June 30, 2023		Recognized in Pension Expense	As of June 30, 2024		Remaining Amort. Period
	Deferred Outflows of Resources	Deferred Inflows of Resources		Deferred Outflows of Resources	Deferred Inflows of Resources	
Experience losses (gains)						
- 6/30/2017	44,753	-	5,354	39,399	-	7.360 years
- 6/30/2019	162,069	-	15,924	146,145	-	9.178 years
- 6/30/2021	-	1,275,722	(1,275,722)	-	-	0.000 years
- 6/30/2023	4,411,820	-	2,205,910	2,205,910	-	1.000 year
subtotal	4,618,642	1,275,722	951,466	2,391,454	-	
Change of assumptions						
- 6/30/2017	-	6,358	(761)	-	5,597	7.360 years
- 6/30/2021	2,213,318	-	2,213,318	-	-	0.000 years
- 6/30/2022	-	2,305,589	(2,305,589)	-	-	0.000 years
subtotal	2,213,318	2,311,947	(93,032)	-	5,597	
Net difference between projected and actual earnings on investments						
- 6/30/2019	-	3,780,520	(3,780,520)	-	-	0.000 years
- 6/30/2020	707,578	-	353,789	353,789	-	1.000 year
- 6/30/2021	-	60,735,829	(20,245,277)	-	40,490,552	2.000 years
- 6/30/2022	56,470,728	-	14,117,682	42,353,046	-	3.000 years
- 6/30/2023	-	31,893,844	(6,378,769)	-	25,515,075	4.000 years
subtotal	57,178,306	96,410,193	(15,933,095)	42,706,835	66,005,627	
Total	\$ 64,010,266	\$ 99,997,862	\$ (15,074,661)	\$ 45,098,289	\$ 66,011,224	

Actual investment earnings above (or below) projected earnings are amortized over 5 years. Plan experience and changes of assumptions are amortized over the average remaining service period of actives and inactive (0 years of future service is assumed for inactive for this calculation).



Pension Expense & Deferred Outflows/Inflows of Resources (continued)

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year ended June 30:	
2025	(9,926,148)
2026	(12,485,845)
2027	7,759,430
2028	(6,358,251)
2029	20,517
Thereafter	77,362

In addition, Governmental Accounting Standards Board Statement 71 ("GASB 71") requires contributions between the measurement date (July 1, 2023) and the disclosure date (June 30, 2024) for GASB 68 be reported as a deferred outflow of resources.

Sources of Gains and Losses

Experience Losses (gains)	\$ 4,411,820
Change of Assumptions Losses (gains)	-
<u>Asset Losses (gains)</u>	<u>(31,893,844)</u>
Total	\$ (27,482,024)



GASB Statement No. 74

Statement of Changes in Fiduciary Net Position

	<u>June 30, 2023</u>
Additions	
Contributions	
Employer	0
Employee	<u>78,531</u>
Total Contributions	78,531
Investment Income	17,870,488
Other	<u>0</u>
Total Additions	<u>17,949,019</u>
Deductions	
Benefit Payments / Refunds	2,154,349
Administrative Expenses	0
Other	<u>0</u>
Total Deductions	<u>2,154,349</u>
Net Increase in Net Position	<u>15,794,670</u>
Net Position Restricted for OPEB	
Beginning of Year	<u>119,335,249</u>
End of Year	<u><u>\$135,129,919</u></u>



Net OPEB Liability

Determination of Net OPEB Liability

	<u>June 30, 2023</u>
Total OPEB Liability	49,266,254
Plan Fiduciary Net Position	<u>(135,129,919)</u>
Net OPEB Liability	<u><u>(\$85,863,665)</u></u>
 Plan Fiduciary Net Position as a Percentage of Total OPEB Liability	 274.28%

Sensitivity of Net OPEB Liability to Changes in the Healthcare Cost Trend Rate

<u>Net OPEB Liability</u>	<u>1% Decrease</u>	<u>Current</u>	<u>1% Increase</u>
June 30, 2023	(\$90,872,410)	(\$85,863,665)	(\$79,899,498)

Sensitivity of Net OPEB Liability to Changes in the Discount Rate

<u>Net OPEB Liability</u>	<u>1% Decrease</u>	<u>Current Rate</u>	<u>1% Increase</u>
	5.50%	6.50%	7.50%
June 30, 2023	(\$80,118,178)	(\$85,863,665)	(\$90,672,165)



Schedule of Changes in the Net OPEB Liability and Related Ratios (Dollar amounts in millions)

	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>
Total OPEB Liability										
Service cost	\$1.2	\$0.9	\$0.9	\$0.7	\$0.7	\$0.7	\$0.7			
Interest	4.6	3.3	3.6	3.0	3.2	2.5	2.5			
Changes of benefit terms	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Differences between expected and actual experience	(22.1)	0.0	(9.7)	0.0	(9.3)	0.0	8.5			
Changes of assumptions	5.6	0.0	0.1	0.0	(2.3)	0.0	(0.9)			
Benefit Payments / Refunds	(1.9)	(2.0)	(2.0)	(2.0)	(1.8)	(1.9)	(2.2)			
Net Change in Total OPEB Liability	(\$12.6)	\$2.2	(\$7.1)	\$1.8	(\$9.6)	\$1.3	\$8.6			
Total OPEB Liability - beginning	64.7	52.1	54.4	47.3	49.0	39.4	40.6			
Total OPEB Liability - ending (a)	\$52.1	\$54.4	\$47.3	\$49.0	\$39.4	\$40.6	\$49.2			
Plan Fiduciary Net Position										
Contributions - employer	\$1.2	\$1.2	\$0.0	\$0.0	\$0.0	\$0.1	\$0.0			
Contributions - employee	0.1	0.2	0.0	0.0	0.1	0.1	0.1			
Transfers	0.0	0.1	0.0	0.0	0.0	0.0	0.0			
Net investment income	9.4	7.6	11.0	5.6	36.7	(12.8)	17.9			
Benefit Payments / Refunds	(1.9)	(2.0)	(2.0)	(2.0)	(1.8)	(1.9)	(2.2)			
Administrative expenses	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Net Change in Plan Fiduciary Net Position	\$8.8	\$7.1	\$9.1	\$3.7	\$35.0	(\$14.5)	\$15.8			
Plan Fiduciary Net Position - beginning	70.3	79.2	86.3	95.4	99.0	133.9	119.3			
Plan Fiduciary Net Position - ending (b)	\$79.2	\$86.3	\$95.4	\$99.0	\$133.9	\$119.3	\$135.0			
Net OPEB Liability - ending (a) - (b)	(\$27.0)	(\$31.9)	(\$48.0)	(\$50.1)	(\$94.5)	(\$78.7)	(\$85.8)			
Plan Fiduciary Net Position as a % of the Total OPEB Liability	152.0%	158.6%	201.7%	202.0%	339.8%	293.8%	274.4%			
Covered-employee payroll	\$30.3	\$30.6	\$30.6	\$30.9	\$29.5	\$29.8	\$26.7			
Net OPEB Liability as a % of covered-employee payroll	(89.1%)	(104.2%)	(156.9%)	(162.1%)	(320.3%)	(264.1%)	(321.3%)			
Discount Rate (Traditional)	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%			
Discount Rate (Hybrid)	4.00%	4.00%	4.00%	4.00%	6.50%	6.50%	6.50%			



Schedule of Contributions

	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>
Actuarially determined contribution ¹	\$1.2	\$1.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0			
Contributions in relation to the actuarially determined contribution	\$1.2	\$1.2	\$0.0	\$0.0	\$0.0	\$0.1	\$0.0			
Contribution deficiency (excess)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	(\$0.1)	\$0.0			
Covered-employee payroll	\$30.3	\$30.6	\$30.6	\$30.9	\$29.5	\$29.8	\$26.7			
Contributions as a percentage of covered-employee payroll	4.0%	3.9%	0.0%	0.0%	0.0%	0.3%	0.0%			

¹ Starting with the Fiscal Year Ending June 30, 2019, due to the lag period between the calculated date and the actual contributions, the Actuarially Determined Contribution has been adjusted with interest at the funding interest rate assumption.

Additional Requirements Under GASB Statement No. 74

GASB Statement No. 74 also requires a Statement of Fiduciary Net Position (which includes a breakdown of current assets by type) and additional investment information, including the annual money-weighted rate of return. In order to satisfy GASB Statement No. 74, these required pieces will need to be provided by the Kentucky Judicial Form Retirement System. USI Consulting Group is prepared to assist the system as needed.



GASB Statement No. 75

Schedule of Changes in NOL, Deferrals, & OPEB Expense

	Increase (Decrease)			Deferred Outflows of Resources	Deferred Inflows of Resources	OPEB Expense
	Total OPEB Liability (a)	Plan Net Position (b)	Net OPEB Liability (a) - (b)			
Balances--at 06/30/2022	\$40,619,947	\$119,335,249	(\$78,715,302)	\$17,465,683	\$22,029,058	
Changes for the Year:						
Service cost	702,812		702,812			702,812
Interest	2,545,947		2,545,947			2,545,947
Benefit changes	0		0			
Experience losses (gains)	8,459,232		8,459,232	5,639,488		2,819,744
Changes of assumptions	(907,335)		(907,335)		604,890	(302,445)
Contributions--Employer		0	0			
Contributions--members		78,531	(78,531)			
Net investment income		17,870,488	(17,870,488)			
Expected return on plan investments						(7,690,389)
Current expense of asset (gain)/loss						(2,036,020)
Non expensed asset gain/loss					8,144,079	
Refunds of contributions		0	0			
Benefits paid	(2,154,349)	(2,154,349)	0			
Administrative expenses		0	0			0
Recognition of Prior Post-measurement Post-measurement Contribution						
Other changes		0	0			
Amortization of or change in beginning balances				(4,416,837)	(9,937,572)	(5,520,735)
Net Changes	8,646,307	15,794,670	(7,148,363)	1,222,651	(1,188,603)	(9,481,086)
Balances--at 06/30/2023	\$49,266,254	\$135,129,919	(\$85,863,665)	\$18,688,334	\$20,840,455	(\$9,481,086)



OPEB Expense & Deferred Outflows/Inflows of Resources

For the year ended June 30, 2024, the recognized OPEB expense will be (\$9,481,086). At June 30, 2024, the Kentucky Judicial Form Retirement System reported deferred outflows of resources and deferred inflows of resources in relation to OPEBs from the following sources:

	As of June 30, 2023		Recognized in Pension Expense	As of June 30, 2024		Remaining Amort. Period
	Deferred Outflows of Resources	Deferred Inflows of Resources		Deferred Outflows of Resources	Deferred Inflows of Resources	
Experience losses (gains)						
- 6/30/2017	2,805	-	335	2,470	-	7.360 years
- 6/30/2019	11,089	-	1,090	9,999	-	9.178 years
- 6/30/2021	-	2,250,460	(2,250,460)	-	-	0.000 years
- 6/30/2023	8,459,232	-	2,819,744	5,639,488	-	2.000 years
subtotal	8,473,126	2,250,460	570,709	5,651,957	-	
Change of assumptions						
- 6/30/2019	1,185	-	117	1,068	-	11.178 years
- 6/30/2021	-	567,604	(567,604)	-	-	0.000 years
- 6/30/2023	-	907,335	(302,445)	-	604,890	2.000 years
subtotal	1,185	1,474,939	(869,932)	1,068	604,890	
Net difference between projected and actual earnings on investments						
- 6/30/2019	-	1,073,765	(1,073,765)	-	-	0.000 years
- 6/30/2020	210,576	-	105,288	105,288	-	1.000 years
- 6/30/2021	-	18,137,229	(6,045,743)	-	12,091,486	2.000 years
- 6/30/2022	17,240,028	-	4,310,007	12,930,021	-	3.000 years
- 6/30/2023	-	10,180,099	(2,036,020)	-	8,144,079	4.000 years
subtotal	17,450,604	29,391,093	(4,740,233)	13,035,309	20,235,565	
Total	\$ 25,924,915	\$ 33,116,492	\$ (5,039,456)	\$ 18,688,334	\$ 20,840,455	

Actual investment earnings above (or below) projected earnings are amortized over 5 years. Plan experience and changes of assumptions are amortized over the average remaining service period of actives and inactive (0 years of future service is assumed for inactive for this calculation).



OPEB Expense & Deferred Outflows/Inflows of Resources (continued)

Amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEBs will be recognized in OPEB expense as follows:

Year ended June 30:

2025	(1,147,627)
2026	(1,252,915)
2027	2,275,529
2028	(2,034,477)
2029	1,542
Thereafter	5,827

In addition, Governmental Accounting Standards Board Statement 75 ("GASB 75") requires contributions between the measurement date (July 1, 2023) and the disclosure date (June 30, 2024) for GASB 75 be reported as a deferred outflow of resources.

Sources of Gains and Losses

Gain-Loss Breakdown

Experience Losses (gains)	\$ 8,459,232
Change of Assumptions Losses (gains)	(907,335)
<u>Asset Losses (gains)</u>	<u>(10,180,099)</u>
Total	\$ (2,628,202)



Risk Assessment

Actuarial Standard of Practice No. 51

Actuarial funding valuation reports are required to include a discussion of the risk associated with measuring pension obligations and determining pension plan contributions. The risks that may reasonably be anticipated to significantly affect the plan's future financial condition are discussed below. USI Consulting Group can perform more detailed assessments of these risks as desired by the plan sponsor to provide a better understanding of the risks.

Investment

Due to the plan's substantial equity exposure, investment returns will likely be much more volatile than the measurements of plan liabilities. Therefore, there is a risk that the funded status of the plan, as well as required plan contributions, could be volatile.

Assumed Rate of Return

Due to the plan's estimated duration of 8 to 11, a 1% decrease in the assumed rate of investment return would increase the measurement of the liability by 8% to 11%.

Longevity

Since nearly all of the plan liability is projected to be paid as annuities, the plan is sensitive to changes in overall population longevity. As a result, the liabilities will fluctuate with changes in longevity. The ratio of retired life liability to total liability is 74%, suggesting there is less sensitivity to long-term changes in overall mortality improvement than a less mature plan.

Other demographic factors

Due to the eligibility for unreduced and subsidized retirement benefits, employees continuing in service for longer than expected will accrue additional benefits which may or may not result in larger liabilities. Conversely, employees retiring sooner than anticipated will accrue smaller benefits which may or may not result in smaller liabilities. Additionally, the difference between actual salary increases compared to the assumed increases based on the valuation assumption would impact the plan's funded status and contribution requirements.

Lump sums

No significant known risks. However, as the Hybrid Tier becomes a larger percentage of the total liability, this risk will become more significant. Since lump sum benefits are equal to the cash balance for the Hybrid Tier, lump sum payments have a comparable effect on both assets and liabilities.



Inflation

Inflation is a component of future interest rates and investment returns over a long period. As a result, changes to inflation can affect funded percentages.

Contribution Risk

Contribution Risk involves the plan not being appropriated at least the Annual Required Contribution. If this amount is not appropriated, the plan runs the risk of not having enough assets to pay benefits when they become due.

Low-Default-Risk Obligation

In accordance with Actuarial Standards of Practice (ASOP) No. 4, the actuary is required to provide a “Low-Default-Risk Obligation Measurement” (LDROM). The intended purpose of the measurement is to show what the funding liability would be if the plan invested its assets solely in a portfolio of high-quality bonds (whose cash flows approximately match the plan’s future benefit payments) using current interest rate conditions. While investing solely in bonds might typically be expected to reduce the plan’s investment risk, it would also likely reduce the plan’s long-term investment returns, thereby increasing the amount of expected contributions needed over the life of the plan (perhaps significantly). The plan’s current investment policy is likely to result in lower contributions needed to support the trust fund than an all-bond policy; however, it can be more volatile, resulting in larger changes year-to-year on funded status. This disclosure is intended to help the user understand the cost of investing in an all-bond portfolio, if the assumed investment return was based on current interest rates. This disclosure may also provide additional information regarding the security of benefits that participants have earned. This disclosure is required and does not imply the plan sponsor is considering investing solely in bonds. This disclosure may not be appropriate for other uses. As of the valuation date, the Low-Default-Risk Obligation Measurement (LDROM) for the plan is \$478 million. Using LDROM interest rates the Plan is 90% funded on a market value of asset basis, compared to a funded level of 112% using the Plan’s ongoing interest rates.

Other Factors

Due to recent and ongoing attempts to pass pension reform legislation at a state level, the plan be modified in the future. Future legislation may affect benefit levels or future contribution levels and could result in increases or decreases in the plan liabilities or funding status.

USI Consulting Group can perform more detailed assessments of these risks as desired by the plan sponsor to provide a better understanding of the risks.



GASB Notes

Notes to GASB 67, 68, 74, and 75 Disclosures

1. Actuarial accrued liability is based on the entry age normal funding method.
2. Market value of assets as of July 1, 2007 was allocated between pension and OPEB obligations based on proportionate share of accrued liability on that date. Allocations in subsequent years are based on prior year allocated value adjusted for contributions and benefits paid during the year, with investment return (net of expenses) allocated proportionately between retirement and OPEB obligations. Actuarial value of assets is then allocated based on the market value of retirement and OPEB assets.
3. Actuarial value of assets uses a 5-year asset smoothing method.
4. Information used in preparing these exhibits has been extracted from past valuation reports.

Note: Above statements are partially based on information furnished by the prior actuary.

5. Covered payroll reflects payroll for all current plan members.
6. ADC based on full actuarial report (odd numbered years) immediately prior to each biennium. ADC amount shown is for basic valuation, without any future COLA reflected but with interest adjustment as appropriate.
7. The valuation date, disclosure date, and measurement date all fall on the same date for purposes of GASB 67.
8. It is assumed the measurement date for GASB 68 will be 12 months before the disclosure date. For the year ending June 30, 2024, the measurement date is July 1, 2023 (the valuation date).
9. The valuation date, disclosure date, and measurement date all fall on the same date for purposes of GASB 74.
10. It is assumed the measurement date for GASB 75 will be 12 months before the disclosure date. For the year ending June 30, 2024, the measurement date is July 1, 2023 (the valuation date).



Summary of Participant Data

Distribution of Active Participants with Average Compensation

Attained Age	Years of Credited Service										Total
	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	Over 39	
Under 25											
25-29											
30-34	2		1								3
	\$134,621		\$127,842								\$132,362
35-39	5	3									8
	\$133,266	\$132,362									\$132,927
40-44	6	9	2	4							21
	\$139,141	\$133,868	\$141,401	\$129,121							\$135,188
45-49	1	6	5	3	4	2					21
	\$141,401	\$139,141	\$135,977	\$133,685	\$137,523	\$135,968					\$137,106
50-54	2	4	4	7	14	9					40
	\$141,401	\$138,011	\$138,365	\$133,033	\$136,946	\$135,207					\$136,341
55-59	2	2	4	4	9	14	1				36
	\$134,621	\$142,108	\$138,331	\$132,544	\$138,250	\$141,519	\$129,121				\$138,655
60-64	1	6	5	3	6	8	5	2			36
	\$141,401	\$140,403	\$141,683	\$129,121	\$146,973	\$140,017	\$141,077	\$142,205			\$140,871
65-69		2	3	3	5	5	3	1			22
		\$135,328	\$137,352	\$138,250	\$142,767	\$137,337	\$140,324	\$142,815			\$139,171
Over 69			2	2	3	2	3	1		1	14
			\$141,401	\$135,968	\$149,047	\$142,815	\$140,324	\$129,121		\$142,815	\$141,458
Total	19	32	26	26	41	40	12	4		1	201
	\$137,119	\$137,065	\$138,484	\$132,807	\$140,351	\$139,063	\$139,704	\$139,086		\$142,815	\$137,997



Distribution of Inactive Participants with Average Annual Benefit - Annuities

Attained Age	All Retired and Beneficiaries	Traditional Terminated	Total
Under 50	2	0	2
	\$87,513	\$0	\$87,513
50 – 54	1	1	2
	\$28,986	\$48,159	\$38,573
55 – 59	13	2	15
	\$63,975	\$28,717	\$59,274
60 – 64	43	4	47
	\$67,291	\$20,059	\$63,271
65 – 69	74	1	75
	\$75,686	\$26,334	\$75,028
70 – 74	108	0	108
	\$72,280	\$0	\$72,280
75 – 79	77	0	77
	\$71,565	\$0	\$71,565
80 – 84	51	0	51
	\$65,058	\$0	\$65,058
85 – 89	13	0	13
	\$62,418	\$0	\$62,418
90 – 94	17	0	17
	\$45,312	\$0	\$45,312
Over 94	6	0	6
	\$38,120	\$0	\$38,120
Total	405	8	413
	\$69,075	\$26,520	\$68,251



Distribution of Inactive Participants with Average Benefits – Lump Sums

Attained Age	Cash Balance Terminated	Total
Under 50	2 \$31,631	2 \$31,631
50 – 54	1 \$7,346	1 \$7,346
55 – 59		
60 – 64		
65 – 69		
70 – 74		
75 – 79	1 \$11,942	1 \$11,942
80 – 84		
85 – 89		
90 – 94		
Over 94		
<hr/> Total	4 \$20,638	4 \$20,638



Glossary of Terms

Amortization – The process of systematically recognizing prior gains and losses as a component of the Pension Expense.

Fiduciary Net Position – The market value of assets as of a specified measurement date.

Funded Status – The difference between the Fiduciary Net Position and the Total Pension Liability as of the measurement date.

Gain/Loss – A change in the value of either the Total Pension Liability or the plan assets resulting from experience different from that assumed or from a change in an actuarial assumption.

Interest Cost – The amount recognized in a period determined as the increase in the Total Pension Liability due to the passage of time.

Pension Expense – The sum of Service Cost, Interest Cost, Expected Return on Assets and amortizations of Actuarial Gain/Loss over the average remaining service period (or the life expectancy) of plan participants expected to receive plan benefits plus a 5-year amortization of Asset Gain/Loss.

Service Cost – is the actuarial present value of benefits attributed to services rendered by employees during the measurement.

Total Pension Liability – The Entry Age Normal Accrued Liability.



Sensitivity Analysis

In accordance with HB 238, we are providing the following sensitivity analysis of the valuation results to changes in certain plan assumptions. Specifically we have looked at the effect of a one percent increase and decrease to the discount rate, salary scale, and healthcare cost trend rate assumptions.

Discount Rate

	1% Decrease (5.5%)	Current Rate (6.5%)	1% Increase (7.5%)
Pension Plan			
Accrued Liability	\$418,289,519	\$382,515,060	\$351,786,316
Actuarial Value of Assets	404,534,407	404,534,407	404,534,407
Unfunded Past Service Liability	13,755,112	(22,019,347)	(52,748,091)
Funded Ratio	96.71%	105.76%	114.99%
Contribution as Percent of Salary	15.47%	2.23%	0.00%
OPEB Plan			
Accrued Liability	\$55,011,741	\$49,266,254	\$44,457,754
Actuarial Value of Assets	127,826,347	127,826,347	127,826,347
Unfunded Past Service Liability	(72,814,606)	(78,560,093)	(83,368,593)
Funded Ratio	232.36%	259.46%	287.52%
Contribution as Percent of Salary	0.00%	0.00%	0.00%
Total ¹			
Accrued Liability	\$473,301,260	\$431,781,314	\$396,244,070
Actuarial Value of Assets	532,360,754	532,360,754	532,360,754
Unfunded Past Service Liability	(59,059,494)	(100,579,440)	(136,116,684)
Funded Ratio	112.48%	123.29%	134.35%
Contribution as Percent of Salary	15.47%	2.23%	0.00%

¹Our current understanding of IRS regulations is that they prohibit the use of surplus OPEB assets for retirement benefits. We recommend continuing discussions with plan council on possible options. Please refer to page 10 of this report for the asset and liabilities split between the Pension and OPEB plans.



Salary Scale

	1% Decrease 0% for five years, 2.5% thereafter	Current Rate 1% for five years, 3.5% thereafter	1% Increase 2% for five years, 4.5% thereafter
Pension Plan			
Accrued Liability	\$381,540,291	\$382,515,060	\$383,417,357
Actuarial Value of Assets	404,534,407	404,534,407	404,534,407
Unfunded Past Service Liability	(22,994,116)	(22,019,347)	(21,117,050)
Funded Ratio	106.03%	105.76%	105.51%
Contribution as Percent of Salary	0.94%	2.23%	3.60%
OPEB Plan			
Accrued Liability	\$49,642,120	\$49,266,254	\$48,863,964
Actuarial Value of Assets	127,826,347	127,826,347	127,826,347
Unfunded Past Service Liability	(78,184,227)	(78,560,093)	(78,962,383)
Funded Ratio	257.50%	259.46%	261.60%
Contribution as Percent of Salary	0.00%	0.00%	0.00%
Total ¹			
Accrued Liability	\$431,182,411	\$431,781,314	\$432,281,321
Actuarial Value of Assets	532,360,754	532,360,754	532,360,754
Unfunded Past Service Liability	(101,178,343)	(100,579,440)	(100,079,433)
Funded Ratio	123.47%	123.29%	123.15%
Contribution as Percent of Salary	0.94%	2.23%	3.60%

¹Our current understanding of IRS regulations is that they prohibit the use of surplus OPEB assets for retirement benefits. We recommend continuing discussions with plan council on possible options. Please refer to page 10 of this report for the asset and liabilities split between the Pension and OPEB plans.



Healthcare Cost Trend Rate

	1% Decrease in Trend Assumption	Current Rate in Trend Assumption	1% Increase in Trend Assumption
Pension Plan			
Accrued Liability	\$382,515,060	\$382,515,060	\$382,515,060
Actuarial Value of Assets	404,534,407	404,534,407	404,534,407
Unfunded Past Service Liability	(22,019,347)	(22,019,347)	(22,019,347)
Funded Ratio	105.76%	105.76%	105.76%
Contribution as Percent of Salary	2.23%	2.23%	2.23%
OPEB Plan			
Accrued Liability	\$44,257,509	\$49,266,254	\$55,230,421
Actuarial Value of Assets	127,826,347	127,826,347	127,826,347
Unfunded Past Service Liability	(83,568,838)	(78,560,093)	(72,595,926)
Funded Ratio	288.82%	259.46%	231.44%
Contribution as Percent of Salary	0.00%	0.00%	0.00%
Total ¹			
Accrued Liability	\$426,772,569	\$431,781,314	\$437,745,481
Actuarial Value of Assets	532,360,754	532,360,754	532,360,754
Unfunded Past Service Liability	(105,588,185)	(100,579,440)	(94,615,273)
Funded Ratio	124.74%	123.29%	121.61%
Contribution as Percent of Salary	2.23%	2.23%	2.23%

¹Our current understanding of IRS regulations is that they prohibit the use of surplus OPEB assets for retirement benefits. We recommend continuing discussions with plan council on possible options. Please refer to page 10 of this report for the asset and liabilities split between the Pension and OPEB plans.



Projections

Pension Plan

In accordance with HB 238, we are also providing the following 30 year projection under the current plan assumptions and, if applicable, before any assumptions changes effective at the valuation date. For a list of assumptions changes effective as of July 1, 2023, please see page 7.

Year Beginning July 1	Contribution				Accrued Liability (\$M)				Unfunded Liability (\$M)		Funded Ratio (Assets/Liabilities)	
	Requirement (\$M)*		Contribution (%)		Prior		Current		Prior		Current	
	Prior	Assumptions	Prior	Current	Assumptions	Current	Assumptions	Current	Assumptions	Current	Assumptions	Current
2023	\$ 5.3	\$ 5.3	19.1%	19.1%	\$ 382.5	\$ 382.5	\$ (22.0)	\$ (22.0)	106%	106%		
2024	\$ 0.7	\$ 0.7	3.0%	3.0%	\$ 379.2	\$ 379.2	\$ (39.5)	\$ (39.5)	110%	110%		
2025	\$ 0.7	\$ 0.7	3.3%	3.3%	\$ 374.8	\$ 374.8	\$ (53.4)	\$ (53.4)	114%	114%		
2026	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 369.1	\$ 369.1	\$ (47.8)	\$ (47.8)	113%	113%		
2027	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 362.5	\$ 362.5	\$ (55.8)	\$ (55.8)	115%	115%		
2028	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 354.9	\$ 354.9	\$ (57.6)	\$ (57.6)	116%	116%		
2029	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 346.5	\$ 346.5	\$ (59.7)	\$ (59.7)	117%	117%		
2030	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 337.3	\$ 337.3	\$ (62.1)	\$ (62.1)	118%	118%		
2031	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 327.4	\$ 327.4	\$ (64.6)	\$ (64.6)	120%	120%		
2032	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 316.9	\$ 316.9	\$ (67.5)	\$ (67.5)	121%	121%		
2033	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 305.7	\$ 305.7	\$ (70.5)	\$ (70.5)	123%	123%		
2034	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 293.9	\$ 293.9	\$ (73.9)	\$ (73.9)	125%	125%		
2035	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 281.7	\$ 281.7	\$ (77.5)	\$ (77.5)	128%	128%		
2036	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 269.0	\$ 269.0	\$ (81.3)	\$ (81.3)	130%	130%		
2037	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 255.7	\$ 255.7	\$ (85.4)	\$ (85.4)	133%	133%		
2038	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 242.4	\$ 242.4	\$ (89.8)	\$ (89.8)	137%	137%		
2039	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 229.0	\$ 229.0	\$ (94.5)	\$ (94.5)	141%	141%		
2040	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 215.2	\$ 215.2	\$ (99.4)	\$ (99.4)	146%	146%		
2041	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 201.3	\$ 201.3	\$ (104.7)	\$ (104.7)	152%	152%		
2042	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 187.8	\$ 187.8	\$ (110.2)	\$ (110.2)	159%	159%		
2043	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 174.4	\$ 174.4	\$ (116.1)	\$ (116.1)	167%	167%		
2044	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 161.2	\$ 161.2	\$ (122.3)	\$ (122.3)	176%	176%		
2045	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 148.6	\$ 148.6	\$ (128.8)	\$ (128.8)	187%	187%		
2046	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 136.5	\$ 136.5	\$ (135.7)	\$ (135.7)	199%	199%		
2047	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 124.8	\$ 124.8	\$ (143.0)	\$ (143.0)	215%	215%		
2048	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 113.8	\$ 113.8	\$ (150.6)	\$ (150.6)	232%	232%		
2049	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 103.5	\$ 103.5	\$ (158.6)	\$ (158.6)	253%	253%		
2050	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 93.7	\$ 93.7	\$ (167.1)	\$ (167.1)	278%	278%		
2051	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 84.6	\$ 84.6	\$ (175.9)	\$ (175.9)	308%	308%		
2052	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 76.2	\$ 76.2	\$ (185.2)	\$ (185.2)	343%	343%		
2053	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 68.5	\$ 68.5	\$ (195.0)	\$ (195.0)	385%	385%		
Sum of Contributions	\$ 6.7	\$ 6.7										

* The Contribution Requirement above is the full projected contribution requirement, adjusted with interest. The projection results are based on the assumption that 94.3% of the requirement is contributed, the average percentage of the contribution requirement that was made over the past 5 years.



OPEB Plan

Year Beginning July 1	Contribution Requirement (\$M)				Contribution (%)				Accrued Liability (\$M)		Unfunded Liability (\$M)		Funded Ratio (Assets/Liabilities)	
	Prior		Current		Prior		Current		Prior		Current		Prior	
	Assumptions	Current	Assumptions	Current	Assumptions	Current	Assumptions	Current	Assumptions	Current	Assumptions	Current	Assumptions	Current
2023	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 50.2	\$ 49.3	\$ (77.7)	\$ (78.6)	255%	259%				
2024	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 51.4	\$ 50.4	\$ (86.2)	\$ (87.2)	268%	273%				
2025	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 52.3	\$ 51.2	\$ (95.3)	\$ (96.4)	282%	288%				
2026	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 53.1	\$ 51.9	\$ (98.5)	\$ (99.7)	285%	292%				
2027	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 53.5	\$ 52.2	\$ (106.5)	\$ (107.8)	299%	307%				
2028	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 53.8	\$ 52.4	\$ (113.0)	\$ (114.3)	310%	318%				
2029	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 54.0	\$ 52.5	\$ (119.9)	\$ (121.3)	322%	331%				
2030	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 54.1	\$ 52.4	\$ (127.3)	\$ (128.8)	335%	346%				
2031	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 53.9	\$ 52.2	\$ (135.2)	\$ (136.8)	351%	362%				
2032	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 53.5	\$ 51.7	\$ (143.6)	\$ (145.4)	368%	381%				
2033	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 53.0	\$ 51.0	\$ (152.7)	\$ (154.6)	388%	403%				
2034	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 52.3	\$ 50.3	\$ (162.3)	\$ (164.4)	410%	427%				
2035	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 51.5	\$ 49.4	\$ (172.7)	\$ (174.8)	435%	454%				
2036	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 50.5	\$ 48.4	\$ (183.7)	\$ (186.0)	464%	484%				
2037	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 49.5	\$ 47.2	\$ (195.4)	\$ (197.9)	495%	519%				
2038	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 48.4	\$ 46.0	\$ (207.9)	\$ (210.6)	530%	558%				
2039	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 47.2	\$ 44.8	\$ (221.3)	\$ (224.1)	569%	600%				
2040	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 46.0	\$ 43.5	\$ (235.5)	\$ (238.5)	612%	648%				
2041	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 44.8	\$ 42.2	\$ (250.7)	\$ (253.9)	660%	702%				
2042	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 43.5	\$ 40.9	\$ (266.8)	\$ (270.2)	713%	761%				
2043	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 42.1	\$ 39.5	\$ (284.0)	\$ (287.6)	775%	828%				
2044	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 40.7	\$ 38.1	\$ (302.2)	\$ (306.1)	843%	903%				
2045	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 39.2	\$ 36.5	\$ (321.7)	\$ (325.8)	921%	993%				
2046	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 37.6	\$ 35.0	\$ (342.4)	\$ (346.8)	1011%	1091%				
2047	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 36.1	\$ 33.5	\$ (364.5)	\$ (369.2)	1110%	1202%				
2048	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 34.5	\$ 31.9	\$ (387.9)	\$ (392.9)	1224%	1332%				
2049	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 32.8	\$ 30.2	\$ (412.9)	\$ (418.2)	1359%	1485%				
2050	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 31.1	\$ 28.6	\$ (439.5)	\$ (445.2)	1513%	1657%				
2051	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 29.4	\$ 27.0	\$ (467.8)	\$ (473.8)	1691%	1855%				
2052	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 27.7	\$ 25.4	\$ (497.9)	\$ (504.3)	1897%	2085%				
2053	\$ 0.0	\$ 0.0	0.0%	0.0%	\$ 26.0	\$ 23.8	\$ (530.0)	\$ (536.8)	2138%	2355%				
Sum of Contributions	\$ 0.0	\$ 0.0												

