# State Police Retirement System

GASB Statements No. 68 Accounting and Financial Reporting for Pensions as of June 30, 2024





March 20, 2025

Board of Trustees Kentucky Retirement Systems Perimeter Park West 1260 Louisville Road Frankfort, KY 40601

Subject: GASB 68 Reporting Information for Measurement Period Ending June 30, 2024 – SPRS

Dear Members of the Board:

This report provided herein contains information for the **State Police Retirement System (SPRS)** in connection with the Governmental Accounting Standards Board (GASB) Statement No. 68, "Accounting and Financial Reporting for Pensions." This information can be used by the Commonwealth of Kentucky for fiscal years ending between (and including) June 30, 2024 and June 30, 2025, for the financial reporting and disclosure requirements of GASB Statement No. 68. The information provided herein was prepared for the purpose of assisting the Kentucky Public Pensions Authority (KPPA) and the Commonwealth of Kentucky in compliance with the financial reporting and disclosure requirements of GASB Statement No. 68.

The liability calculations presented in this report were performed for the purpose of satisfying the requirements of GASB Statement No. 68 and are not applicable for other purposes, such as determining the plan's funding requirements. The calculation of the plan's liability for other purposes may produce significantly different results. This report may be provided to parties other than the Board of Trustees of the Kentucky Retirement Systems only in its entirety and only with the permission of the Board. GRS is not responsible for unauthorized use of this report.

The total pension liability, net pension liability, and sensitivity information shown in this report are based on an actuarial valuation date of June 30, 2023. The total pension liability was rolled-forward from the valuation date to the plan's fiscal year ending June 30, 2024 using generally accepted actuarial principles. The exhibits provided in this report include the applicable information for historical years that were calculated in accordance with this accounting standard. Information disclosed for years prior to June 30, 2017 were prepared by the prior actuary.

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#### **Actuarial Assumptions and Plan Provisions**

There have been no assumption, method or plan provision changes that would materially impact the total pension liability since June 30, 2023. It is our opinion that these procedures for determining the information contained in these reports are reasonable, appropriate, and comply with applicable requirements under GASB No. 68.

#### 401(h) Subaccount

Based on guidance issued by GASB in connection with GASB Statement No. 74, the 1% of pay member contributions for Tier 2 and Tier 3 members to a 401(h) subaccount are considered an OPEB asset. As a result, the reported fiduciary net positions as of June 30, 2017 and later are net of the 401(h) asset balance.

#### **Additional Disclosures**

This report is based upon information furnished by KPPA, which includes benefit provisions, membership information, and financial data. We did not audit this data and information, but we did apply a number of tests and concluded that it was reasonable and consistent. GRS is not responsible for the accuracy or completeness of the information provided by KPPA. This report complements the GASB 67 accounting valuation report as of June 30, 2024, which was provided for plan accounting purposes, as well as the "Actuarial Valuation Report as of June 30, 2023", which was provided for plan funding purposes. Together, these reports should be considered as a complete report for the measurement period that ended June 30, 2024. Please see the GASB 67 accounting valuation report as of June 30, 2024 for additional discussion of accounting information and the actuarial valuation report for information regarding the nature of actuarial calculations, participant data, economic and demographic assumptions, and benefit provisions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements; and changes in plan provisions or applicable law.



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To the best of our knowledge, this report is complete and accurate and is in accordance with generally recognized actuarial practices and methods. Mr. White and Ms. Shaw are Enrolled Actuaries. All of the undersigned are members of the American Academy of Actuaries and meet all of the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. In addition, all three are independent of KPPA and are experienced in performing valuations for large public retirement systems. This communication shall not be construed to provide tax advice, legal advice or investment advice.

Respectfully submitted,

Gabriel, Roeder, Smith & Company

Daniel J. White, FSA, EA, MAAA Senior Consultant and Actuary

Janie/Shaw, ASA, EA, MAAA Consultant and Actuary

Krysti Kiesel, ASA, MAAA Consultant and Actuary



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# SECTION 1

**EXECUTIVE SUMMARY** 

# **Executive Summary**

### **Summary of Principal Results**

Actuarial Valuation Date Measurement Date	June 30, 2023 June 30, 2024				
Membership Information					
Number of					
<ul> <li>Inactive employees or beneficiaries currently receiving benefits</li> </ul>	1,697				
<ul> <li>Inactive employees entitled to but not yet receiving benefits</li> </ul>	714				
- Active employees	 868				
- Total	3,279				
Covered Payroll <sup>1</sup>	\$ 71,963,736				
Net Pension Liability					
Total Pension Liability	\$ 1,101,632,427				
Plan Fiduciary Net Position	 651,789,660				
Net Pension Liability	\$ 449,842,767				
Plan Fiduciary Net Position as a Percentage of Total Pension Liability	59.17%				
Net Pension Liability as a Percentage of Covered Payroll	625.09%				
Pension Expense and Deferred Outflows/(Inflows) of Resources					
GASB 68 Pension Expense	\$ 38,414,363				
Deferred Outflows of Resources	60,895,061				
Deferred Inflow of Resources	49,543,250				
Development of the Single Discount Rate					
Single Discount Rate	5.25%				
Long-Term Expected Rate of Return	5.25%				
Long-Term Municipal Bond Rate	N/A				

#### Notes



 $<sup>^{1}\,</sup>$  Based on derived compensation using the provided employer contribution information for fiscal year 2024.

# Summary of Change in Net Pension Liability (\$ in thousands)

	Total Pension Liability (1)		Plan iduciary : Position <sup>1</sup> (2)	Net Pension Liability (1) - (2) (3)		
Balance at June 30, 2023	\$ 1,039,813	\$	591,514	\$	448,299	
Adjustment to prior year			-		-	
1. Service cost	18,243				18,243	
2. Interest	52,909				52,909	
3. Benefit changes	-				-	
4. Assumption changes	-				-	
5. Difference between expected						
and actual experience	54,711				54,711	
6. Employer contributions			61,998		(61,998)	
7. Member contributions <sup>2</sup>			5,703		(5,703)	
8. Net investment income <sup>2</sup>			56,933		(56,933)	
9. Benefit payments	(63,823)		(63,823)		-	
10. Refund of member contributions	(221)		(221)		-	
11. Administrative expense	-		(314)		314	
12. Other changes	 				-	
13. Net changes	\$ 61,819	\$	60,276	\$	1,543	
Balance at June 30, 2024	\$ 1,101,632	\$	651,790	\$	449,842	

#### Notes:



<sup>&</sup>lt;sup>1</sup> Does not include 401(h) assets

 $<sup>^{2}\,</sup>$  Does not include 401(h) contributions or associated investment income

#### **Report Purpose and Scope**

Under GASB No. 68, employers must report the net pension liability, pension expense, and related deferred inflows and outflows of resources associated with providing retirement benefits to their employees (and former employees) in their basic financial statements. In addition, extensive note disclosures and related Required Supplementary Information are also required. The purpose of this report is to provide the employer with the actuarially calculated pension amounts.

Actuarial information required to be reported or disclosed by GASB No. 68 are contained in this report. However, the following information is not included in this report because it is not actuarial in nature:

Pension Plan Description - A description of the plan is provided by KPPA, and also in the KPPA Annual Report, both found on their website. The Commonwealth can use the description information and provide their respective plan provisions in their disclosure.

#### **Financial Reporting Overview**

GASB 68 requires employers to recognize the net pension liability and the pension expense on their financial statements. The net pension liability is the total pension liability, less the amount of the plan's fiduciary net position. In actuarial terms, this is analogous to the accrued liability as measured using the individual entry age normal actuarial cost method less the market value of assets (not the smoothed actuarial value of assets used in the actuarial funding calculations based on the Board's adopted assumptions and methods).

In addition, employers are responsible for allocating the pension amounts between the governmental activities and business-type activities columns of the government-wide financial statements and between individual proprietary funds.

### **Timing of the Valuation**

For the employer's financial reporting purposes, the net pension liability and pension expense should be measured as of the employer's "measurement date" which may not be earlier than the employer's prior fiscal year-end date. The total pension liability, net pension liability, and sensitivity information shown in this report are based on an actuarial valuation date of June 30, 2023. The total pension liability was rolled-forward from the valuation date to the plan's fiscal year ending June 30, 2024 using generally accepted actuarial principles. The exhibits provided in this report include the applicable information for historical years that were calculated in accordance with this accounting standard. Information disclosed for years prior to June 30, 2017 were prepared by the prior actuary.

There have been no assumption, method or plan provision changes that would materially impact the total pension liability since June 30, 2023.



# Employer Contributions after the Measurement Date and before the Employer's Fiscal Year End

Paragraph 57 of GASB No. 68 indicates that employer contributions made subsequent to the measurement date of the Net Pension Liability and prior to the end of the employer's reporting period should be reported by the employer as a deferred outflow of resources related to pensions. The information contained in this report does not incorporate any contributions made to the pension plan subsequent to June 30, 2024.

#### **Single Discount Rate**

Projected benefit payments are required to be discounted to their actuarial present values using a single discount rate that reflects (1) a long-term expected rate of return on pension plan investments (to the extent that the plan's fiduciary net position is projected to be sufficient to pay benefits) and (2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating as of the measurement date (to the extent that the plan's projected fiduciary net position is not sufficient to pay benefits).

A single discount rate of 5.25% was used to measure the total pension liability for the fiscal year ending June 30, 2024. This single discount rate was based on the expected rate of return on pension plan investments. Based on the stated assumptions and the projection of cash flows as of each fiscal year ending, the pension plan's fiduciary net position and future contributions were projected to be sufficient to finance all the future benefit payments of the current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of the projected benefit payments to determine the total pension liability.

The projection of cash flows used to determine the single discount rate must include an assumption regarding actual employer contributions made each future year. Future contributions are projected assuming that each participating employer in the plan contributes the actuarially determined employer contribution each future year calculated in accordance with the current funding policy.



#### **Summary of Population Statistics**

The total pension liability described in this report is based on the plan membership as of June 30, 2023:

Inactive plan members currently	
receiving benefits:	1,697
Inactive plan members entitled to	
but not yet receiving benefits:	714
Active plan members:	868
Total plan members:	3,279

#### **Recognition of Deferred Outflows and Inflows of Resources**

According to paragraph 33 of GASB Statement No. 68, differences between expected and actual experience and changes in assumptions are recognized in pension expense using a systematic and rational method over a closed period equal to the average of the expected remaining service lives of all employees that are provided with pensions through the pension plan (active employees and inactive members) determined as of the beginning of the measurement period.

At the beginning of the 2024 measurement period, the expected remaining service lives of all employees was 10,848 years and the average of the expected remaining service lives for purposes of recognizing the applicable deferred outflows and inflows of resources established in the 2024 measurement period was 3.31 years (10,848 total expected remaining service period divided by 3,279 plan members).

Differences between projected and actual earnings on pension plan investments should be recognized in pension expense using a systematic and rational method over a closed five-year period. For this purpose, the deferred outflows and inflows of resources are recognized in the pension expense as a level dollar amount over the closed period identified above.

### Sensitivity of the Net Pension Liability to Changes in the Discount Rate

As of June 30, 2024, the Net Pension Liability is \$449,842,767. Below is a table providing the sensitivity of the Net Pension Liability to changes in the discount rate. In particular, the table shows the plan's Net Pension Liability if it were calculated using a single discount rate that is one-percentage point lower or one-percentage point higher than the single discount rate:

1% Decrease	Current Single Rate	1% Increase
4.25%	Assumption 5.25%	6.25%
\$587,850,732	\$449,842,767	\$336,575,550



# SECTION 2

**ACCOUNTING EXHIBITS** 

# Schedule of Pension Expense as of June 30, 2024

1. Service cost	\$ 18,243,344
2. Interest on the Total Pension Liability	52,909,049
3. Current period benefit changes	-
4. Member contributions	(5,703,286)
5. Projected earnings on plan investments	(31,142,278)
6. Administrative expense	313,976
7. Other changes in fiduciary net position	-
8. Recognition of outflows (inflow) of	
resources - liability experience	18,846,136
9. Recognition of outflows (inflow) of	
resources - assumption changes	(9,329,998)
10. Recognition of outflows (inflow) of	
resources - investment experience	 (5,722,580)
11. Pension Expense	\$ 38,414,363



# Outstanding Balance of Deferred Outflows and Inflows of Resources to be Recognized in Future Years

	Deferred Outflow of	Deferred Inflow of
	Resources	Resources
	(1)	(2)
<ol> <li>Differences between expected and</li> </ol>		
actual liability experience	\$ 42,293,827	\$ -
2. Changes in assumptions	-	12,595,496
3. Differenced between projected and actual earnings on plan investments	18,601,234	36,947,754
4. Employer contributions subsequent to the measurement date <sup>1</sup>	Unknown	
5. Total	\$ 60,895,061	\$ 49,543,250

#### Notes:



<sup>&</sup>lt;sup>1</sup> Employer contributions to the Plan made after the measurement date and up to the fiscal year end should be reported as a deferred outflow of resources.

# **Summary of Deferred Outflows and Inflows of Resources Arising from Current and Prior Reporting Periods**

Differences E	Between Expected a	nd Actual Liability E	xperience												
		Deferred	Original			In	crease/(Decreas	se) in	Pension Expen	se Ar	ising from the	Recog	gnition		
	Original	Outflow/(Inflow)	Recognition			of the	Effects of Differ	ence	s Between Expe	cted	and Actual Liab	ility l	Experience		
Year	Outflow/(Inflow)	as of June 30, 2024	Period (Years)		2023-2024		2024-2025		2025-2026		2026-2027	2	2027-2028	The	ereafter
2019-2020	\$ 10,859,554	\$ -	3.46	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
2020-2021	4,125,640	-	3.12		158,677		-		-		-		_		-
2021-2022	(2,698,580)	-	2.98		(887,452)		-		-		-		-		
2022-2023	10,204,305	4,112,183	3.35		3,046,061		3,046,061		1,066,122		-		-		-
2023-2024	54,710,494	38,181,644	3.31		16,528,850		16,528,850		16,528,850		5,123,944		-		-
		\$ 42,293,827		\$	18,846,136	\$	19,574,911	\$	17,594,972	\$	5,123,944	\$	-	\$	-
 Differences E	Between Projected a	and Actual Earnings	on Pension Plar	ı Inv	estments										
	•	Deferred	Original		Inc	rease	/(Decrease) in P	ensi	on Expense Aris	ing f	rom the Recogn	ition	of the Effects		
	Original	Outflow/(Inflow)	Recognition		of [	Differ	ences Between P	rojec	ted and Actual	Earn	ings on Pension	n Plar	n Investments		
Year	Outflow/(Inflow)	as of June 30, 2024	Period (Years)		2023-2024		2024-2025		2025-2026 2026-2027			2027-2028		Thereafter	
2019-2020	\$ 8,719,821	\$ -	5.00	\$	1,743,965	\$	-	Ś	_	Ś	_	Ś	-	\$	
2020-2021	(46,278,945)	(9,255,789)	5.00		(9,255,789)	Ċ	(9,255,789)		-		-	•	_	·	
2021-2022	46,503,082	18,601,234	5.00		9,300,616		9,300,616		9,300,618		-		_		
2022-2023	(11,767,599)	(7,060,559)	5.00		(2,353,520)		(2,353,520)		(2,353,520)		(2,353,519)		_		
2023-2024	(25,789,258)	(20,631,406)	5.00		(5,157,852)		(5,157,852)		(5,157,852)		(5,157,852)		(5,157,850)		
	, , , ,	\$ (18,346,520)		\$	(5,722,580)	\$	(7,466,545)	\$	1,789,246	\$	(7,511,371)	\$	(5,157,850)	\$	-
 Effects of Ch	anges of Assumptio	ns													
	Original	Deferred Outflow/(Inflow)	Original Recognition						ase) in Pension the Effects of C		-		2		
Year	Outflow/(Inflow)	as of June 30, 2024	Period (Years)		2023-2024		2024-2025		2025-2026	-	2026-2027		2027-2028	The	ereafte
2019-2020	\$ -	\$ -	3.46	\$	-	\$	-	\$	-	\$	_	\$	-	\$	
2020-2021	-	-	3.12		-		-		-		-		-		
2021-2022	-	-	2.98		-		-		-		-		-		
2022-2023	(31,255,492)	(12,595,496)	3.35		(9,329,998)		(9,329,998)		(3,265,498)		-		-		
2023-2024	-	-	3.31		-		-		-		-		_		
		<del></del>	*	_		_		_		-		_			

(9,329,998) \$

(9,329,998) \$ (3,265,498) \$



(12,595,496)

# **Summary of Deferred Outflows and Inflows of Resources Arising from Current and Prior Reporting Periods**

	Period	Amount
	(1)	(2)
1.	Fiscal Year + 1	\$ 2,778,368
2.	Fiscal Year + 2	16,118,720
3.	Fiscal Year + 3	(2,387,427)
4.	Fiscal Year + 4	(5,157,850)
5.	Fiscal Year + 5	-
6.	Thereafter	-
7.	Total	\$ 11,351,811



### Schedule of Changes in the Employers' Net Pension Liability (\$ in thousands)

2024 2022 2021 2020 2017 2016 2023 2019 2018 2015 Total pension liability

1. Service Cost	18,243	13,229	12,158	12,530	13,192		11,726	11,890	8,297	8,402	7,695
2. Interest (on the Total Pension Liability)	52,909	53,853	53,740	53,417	52,697		49,301	47,978	51,769	52,951	50,661
3. Benefit Changes <sup>1</sup>	0	0	3,130	35	0		0	184	0	0	0
4. Difference between expected and actual experience	54,711	10,204	(2,700)	4,127	10,859		20,952	25,126	8,143	0	9,331
5. Changes of assumptions	0	(31,255)	0	0	0		44,510	0	136,602	56,191	40,201
6. Benefit payments	(63,823)	(63,804)	(64,120)	(63,249)	(62,423)	)	(60,949)	(58,805)	(56,934)	(56,268)	(54,765)
7. Refund of member contributions	(221)	(166)	(280)	(273)	(88)	)	(162)	(22)	(26)	(11)	(85)
8. Net change in total pension liability	\$ 61,819 \$	(17,939) \$	1,928	\$ 6,587	\$ 14,237	\$	65,378 \$	26,351 \$	147,850 \$	61,265 \$	53,038
9. Total pension liability – beginning	1,039,813	1,057,752	1,055,824	1,049,237	1,035,000		969,622	943,271	795,421	734,156	681,118
10. Total pension liability – ending	\$ 1,101,632 \$	1,039,813	1,057,752	\$ 1,055,824	\$ 1,049,237	\$	1,035,000 \$	969,622 \$	943,271 \$	795,421 \$	734,156
Plan fiduciary net position <sup>1</sup>											
1. Contributions – employer	\$ 61,998 \$	58,120	277,341	\$ 59,650	\$ 59,453	\$	60,048 \$	46,877 \$	63,239 \$	25,822 \$	31,990
2. Contributions – member <sup>2</sup>	5,703	5,250	4,773	4,752	4,767		5,062	5,522	5,348	5,263	5,244
3. Net investment income <sup>2</sup>	56,933	40,708	(22,088)	61,729	6,341		14,816	18,437	26,795	(3,843)	3,426
4. Benefit payments	(63,823)	(63,804)	(64,120)	(63,249)	(62,423)	)	(60,949)	(58,805)	(56,934)	(56,268)	(54,765)
5. Refund of member contributions	(221)	(166)	(280)	(273)	(88)	)	(162)	(22)	(26)	(11)	(85)
6. Administrative Expense	(314)	(293)	(273)	(212)	(266)	)	(225)	(194)	(181)	(178)	(201)
7. Other <sup>3</sup>	0	0	0	0	0		3	21	(517)	0	645
8. Net change in plan fiduciary net position	\$ 60,276 \$	39,815	195,353	\$ 62,397	\$ 7,784	\$	18,593 \$	11,836 \$	37,724 \$	(29,215) \$	(13,746)
9. Plan fiduciary net position – beginning	591,514	551,699	356,346	293,949	286,165		267,572	255,737	218,012	247,228	260,974
10. Prior year Adjustment	-	-	-	=	-		-	(1)	=	-	
11. Plan fiduciary net position – ending	\$ 651,790 \$	591,514	551,699	\$ 356,346	\$ 293,949	\$	286,165 \$	267,572 \$	255,737 \$	218,012 \$	247,228
Net pension liability	\$ 449,842 \$	448,299	506,053	\$ 699,478	\$ 755,288	\$	748,835 \$	702,050 \$	687,534 \$	577,409 \$	486,928
Plan fiduciary net position as a percentage											
of the total pension liability	59.17%	56.89%	52.16%	33.75%	28.02%	5	27.65%	27.60%	27.11%	27.41%	33.68%
Covered-employee payroll <sup>4</sup>	\$ 71,964 \$	65,693	48,061	\$ 47,873	\$ 49,019	\$	49,515 \$	50,346 \$	54,065 \$	46,685 \$	45,765
Net pension liability as a percentage											
of covered employee payroll	625.09%	682.42%	1052.94%	1461.11%	1540.81%		1512.34%	1394.45%	1271.68%	1236.82%	1063.97%



Does not include 401(h) assets for fiscal years 2017 and later. 401(h) assets totaled \$1,426,000 as of June 30, 2024

<sup>&</sup>lt;sup>2</sup> Does not include 401(h) contributions or associated investment income for fiscal years 2017 and later. For fiscal year 2024, 401(h) contributions equaled -\$12,000; and associated investment return equaled \$126,000.

 $<sup>^{\</sup>rm 3}\,$  Northern Trust Settlement for fiscal year 2018 and 2019.

<sup>&</sup>lt;sup>3</sup> Adjustment due to 401(h) plan asset balance that is considered an OPEB asset under GASB 74 for fiscal year 2017

<sup>&</sup>lt;sup>4</sup> Based on derived compensation using the provided employer contribution information for fiscal years 2017 and later

## **Schedule of the Employers' Contributions**

(\$ in thousands)

Fiscal Year Ending	Det	uarially ermined ribution <sup>1</sup>	Total Employer Contributions		Contribution Deficiency (Excess)			Covered Employee Payroll <sup>2</sup>	Actual Contributions as a Percentage of Covered Payroll		
2024	\$	61,998	\$	61,998	\$	-	\$	71,964	86.15%		
2023		58,120		58,120		-		65,693	88.47%		
2022		62,341		277,341		(215,000)		48,061	577.06%		
2021		59,263		59,650		(387)		47,873	124.60%		
2020		58,358		59,453		(1,095)		49,019	121.29%		
2019		58,948		60,048		(1,100)		49,515	121.27%		
2018		36,033		46,877		(10,844)		50,346	93.11%		
2017		35,937		63,240		(27,303)		54,065	116.97%		
2016		25,723		25,822		(99)		46,685	55.31%		
2015		31,444		31,990		(546)		45,765	69.90%		

#### Notes:



<sup>&</sup>lt;sup>1</sup> Actuarially determined contribution for fiscal year ending 2024 is based on the contribution rate calculated with the June 30, 2021 actuarial valuation, as amended by HB1 passed during the 2022 legislative session.

<sup>&</sup>lt;sup>2</sup> Based on derived compensation using the provided employer contribution information for fiscal years 2017 and later.

## Notes to Schedule of Employers' Contributions for FYE 2024

The actuarially determined contribution effective for fiscal year ending 2024 that is documented in the schedule on the previous page was calculated as of June 30, 2021.

Based on the June 30, 2021 actuarial valuation report the actuarial methods and assumptions used to calculate the required contribution are below:

Determined by the

Actuarial Valuation as of: June 30, 2021

Actuarial Cost Method: Entry Age Normal

Asset Valuation Method: 20% of the difference between the market value of assets

and the expected actuarial value of assets is recognized

Amortization Method: Level Percent of Pay

Amortization Period: 30-year closed period at June 30, 2019

Gains/losses incurring after 2019 will be amortized over separate closed 20-year amortization bases

Payroll Growth Rate 0.00%

Investment Return: 5.25%

Inflation: 2.30%

Salary Increases: 3.55% to 16.05%, varies by service

Mortality: System-specific mortality table based on mortality

experience from 2013-2018, projected with the ultimate rates from MP-2014 mortality improvement scale using a

base year of 2019



# **SECTION 3**

DOCUMENTATION OF SUPPORT FOR INVESTMENT RETURN ASSUMPTION

#### **Long-Term Expected Investment Return**

The long-term expected rate of return was determined by using a building block method in which best estimate ranges of expected future real rates of returns are developed for each asset class. The ranges are combined by weighting the expected future real rate of return by the target asset allocation percentage. The target allocation and best estimates of arithmetic real rate of return for each major asset class is summarized in the table below. The current long-term inflation assumption is 2.50% per annum.

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Equity		
Public Equity	30.00%	4.15%
Private Equity	6.00%	9.10%
Fixed Income		
Core Fixed Income	27.00%	2.85%
Specialty Credit	20.00%	3.82%
Cash	2.00%	1.70%
Inflation Protected		
Real Estate	5.00%	4.90%
Real Return	10.00%	5.35%
Expected Real Return	100.00%	4.14%
Long Term Inflation Assumption		2.50%
Expected Nominal Return for Por	6.64%	

Source: Kentucky Public Pensions Authority

