

The Public Employees' Retirement System of New Jersey

**GASB 67 Report
as of June 30, 2024**

Produced by Cheiron

March 2025

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THE PUBLIC EMPLOYEES' RETIREMENT SYSTEM OF NEW JERSEY
GASB 67 REPORTING FOR JUNE 30, 2024 MEASUREMENT DATE

SECTION I – BOARD SUMMARY

The purpose of this report is to provide accounting and financial disclosure information under Governmental Accounting Standards Board Statement 67 for the Public Employees' Retirement System of New Jersey (PERS, Plan or System). This information includes:

- Projection of the Total Pension Liability (TPL) from the valuation date to the measurement date,
- Calculation of the Net Pension Liability (NPL) at the discount rate as well as discount rates 1% higher and lower than the discount rate, and
- Changes in the Net Pension Liability.

Highlights

The reporting date for the PERS is June 30, 2024. Measurements as of the reporting date are based on the fair value of assets as of June 30, 2024 and the Total Pension Liability as of the valuation date, July 1, 2023, updated to June 30, 2024. We are not aware of any significant events between the valuation date and the measurement date that are measurable at this time, so the update procedures only include the addition of service cost and interest cost offset by actual benefit payments.

The following table provides a summary of the key results during this reporting period for the System in Total, as well as broken out for the State portion and the Local Employers portion.

Table I-1 Summary of Results		
Measurement Date	June 30, 2024	June 30, 2023
<u>State</u>		
Total Pension Liability	\$ 30,497,816,419	\$ 29,889,262,049
Plan Fiduciary Net Position	<u>8,327,580,797</u>	<u>7,431,214,496</u>
Net Pension Liability	\$ 22,170,235,622	\$ 22,458,047,553
<u>Local Employers</u>		
Total Pension Liability	\$ 43,115,494,090	\$ 42,006,927,506
Plan Fiduciary Net Position	<u>29,413,070,105</u>	<u>27,400,438,440</u>
Net Pension Liability	\$ 13,702,423,985	\$ 14,606,489,066
<u>Total</u>		
Total Pension Liability	\$ 73,613,310,509	\$ 71,896,189,555
Plan Fiduciary Net Position	<u>37,740,650,902</u>	<u>34,831,652,936</u>
Net Pension Liability	\$ 35,872,659,607	\$ 37,064,536,619

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SECTION II – CERTIFICATION

The purpose of this report is to provide accounting and financial reporting information under GASB 67 for the Public Employees' Retirement System of New Jersey (PERS). This report is for the use of PERS, the Division of Pensions and Benefits (DPB) and their auditors in preparing financial reports in accordance with applicable law and accounting requirements. This report is not appropriate for other purposes, including the measurement of funding requirements for PERS and estimating the price to settle PERS's obligations.

In preparing our report, we relied on information (some oral and some written) supplied by the DPB. This information includes, but is not limited to, the Plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23, Data Quality.

Future actuarial measurements may differ significantly from the current measurements 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; and changes in plan provisions or applicable law.

For purposes of this report, the calculation of the Total Pension Liability and the projection of the Plan's contributions and projected benefit payments as of June 30, 2024 was based on the recommended demographic assumptions of the July 1, 2018 – June 30, 2021 Experience Study, which was approved by the Board of Trustees on November 16, 2022.

This report reflects one change to the Plan provisions. Chapter 249, P.L. 2023 extends provisions of Chapter 498, P.L. 2021 for calendar years 2023 or 2024 to allow for a temporary return to employment by a former employee of the Legislature after retirement from PERS. This legislation did not impact the Total Pension Liability for this report due to the current demographic assumptions and covered population.

This report was prepared using census data as of the July 1, 2023 valuation date and financial information as of the June 30, 2024 measurement date.

Based on the State Treasurer's recommendation, the investment return assumption used to determine the actuarially determined contributions is 7.00% per annum.

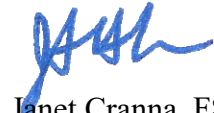
In accordance with Paragraph 40 of GASB Statement No. 67, the projection of the Plan's fiduciary net position is based on a long-term expected rate of return of 7.00% per annum. The discount rate used to measure the Total Pension Liability is 7.00% as of June 30, 2024 and is described in Section III of the report.

This report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this report. This report does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

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SECTION II – CERTIFICATION

This report was prepared for PERS for the purposes described herein and for the use by the Plan auditor in completing an audit related to the matters herein. Other users of this report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to such other users.



Janet Cranna, FSA, FCA, MAAA, EA
Principal Consulting Actuary



Jake Libauskas, FSA, FCA, MAAA, EA
Consulting Actuary

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SECTION III – DETERMINATION OF DISCOUNT RATE

The discount rate used to measure the Total Pension Liability was 7.00% as of June 30, 2023 and June 30, 2024. As discussed with the DPB, the projection of cash flows used to determine the discount rate as of June 30, 2024 assumed:

- In accordance with Paragraph 40 of GASB Statement No. 67, the projection of the Plan's fiduciary net position is based on a long-term expected rate of return of 7.00% per annum.
- In accordance with Paragraph 41 of GASB Statement No. 67, the projection of the Plan's contributions and benefit payments are based on the same assumptions used to determine the expected contributions for the System. The demographic assumptions are based on the recommendations of the July 1, 2018 – June 30, 2021 Experience Study, which was approved by the Board of Trustees on November 16, 2022.

Based on the State Treasurer's recommendation, the investment return assumption used to determine the actuarially determined contributions is 7.00% per annum.

- It is assumed that the Local employers will contribute 100% of their actuarially determined contribution and 100% of their Non-Contributory Group Insurance Premium Fund (NCGIPF) contribution. It is assumed that the State will contribute 100% of its actuarially determined contribution and NCGIPF contribution. The 100% contribution rate is the total State contribution rate expected to be paid in fiscal year ending June 30, 2025 with respect to the actuarially determined contribution for the fiscal year ending June 30, 2025 for all State-administered retirement systems.
- Consistent with Chapter 83, P.L. 2016, it is assumed that the State will make pension contributions in equal amounts at the end of each quarter.
- In accordance with Chapter 98, P. L. 2017, PERS receives 21.02% of the proceeds of the Lottery Enterprise for a period of 30 years. Revenues received from lottery proceeds are assumed to be contributed to the System on a monthly basis.
- It is assumed that Local employers' contributions, including the NCGIPF contributions, are expected to be received on April 1st, 21 months after the associated valuation date.
- The State NCGIPF contributions are assumed to be paid monthly.
- Annual administrative expenses are assumed to be 0.49% and 0.82% of expected pension benefit payments for State and Local employers, respectively.

The Fiduciary Net Position (FNP) includes Local employers' contributions receivable as reported in the financial statements provided to us by the DPB. In determining the discount rate in Appendix D, the FNP at the beginning of each year does not reflect receivable contributions as those amounts are not available at the beginning of the year to pay benefits. The receivable contributions for the current year and prior year are shown below:

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SECTION III – DETERMINATION OF DISCOUNT RATE

- For FYE June 30, 2023, the FNP includes receivable contributions of \$1,354,892,653 (\$1,280,103,723 for appropriations, \$56,423,536 for NCGIPF, \$2,910,385 for Chapter 19 and \$15,455,009 for Early Retirement Incentive (ERI)).
- For FYE June 30, 2024, the FNP includes receivable contributions of \$1,393,655,054 (\$1,302,428,289 for appropriations, \$58,292,182 for NCGIPF, \$18,582,343 for Chapter 19 and \$14,352,240 for ERI).

In the event the Plan's fiduciary net position was no longer sufficient to make future benefit payments, municipal bond rates of 3.65% as of June 30, 2023 and 3.93% as of June 30, 2024 would be used to develop the blended GASB discount rate. As selected by the State Treasurer, the rates are based on the Bond Buyer GO 20-Bond Municipal Bond Index.

As of June 30, 2024, based on the assumptions above, the pension Plan's fiduciary net position is expected to be sufficient to make all projected future benefit payments for current Plan members; therefore, the GASB discount rate as of June 30, 2024 is equal to the long-term rate of return of 7.00%. Similarly, the GASB discount rate as of June 30, 2023 was equal to the long-term rate of return of 7.00%. The assumed discount rates have been determined in accordance with the method prescribed by GASB Statement No. 67. See Appendix D for the determination of the discount rate.

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SECTION IV – PROJECTION OF TOTAL PENSION LIABILITY

The Total Pension Liability at the end of the measurement year, June 30, 2024, is measured as of a valuation date of July 1, 2023 and projected to June 30, 2024. The TPL and service cost were calculated using the Entry Age Normal Cost Method as prescribed by GASB 67. All TPL amounts shown in Tables IV-1A to IV-1C below include liabilities attributable to the NCGIPF. In addition, net employer transfer contributions and net member transfer contributions with accumulated interest are added to the June 30, 2024 TPL.

There were no significant events during the projection period of which we are aware. Because the TPL shown in the prior report was measured as of July 1, 2022 and projected to June 30, 2023, it will not match the amounts measured as of July 1, 2023 that are shown in this exhibit.

The following tables show the projection of the TPL, broken out by State, Local employers and in Total for the System, and at discount rates equal to the rate used for disclosure and plus and minus one percent from the rate used for disclosure.

Table IV-1A Projection of Total Pension Liability from Valuation to Measurement Date State			
Discount Rate	6.00%	7.00%	8.00%
Total Pension Liability, 7/1/2023			
Actives	\$ 13,069,787,950	\$ 11,339,838,656	\$ 9,901,249,846
Deferred Vested	24,477,550	21,520,846	19,083,475
Retirees	20,236,150,700	18,719,146,568	17,402,066,524
Total	\$ 33,330,416,200	\$ 30,080,506,070	\$ 27,322,399,845
Service Cost	584,382,171	475,413,604	392,876,704
Benefit Payments	(2,127,310,714)	(2,127,310,714)	(2,127,310,714)
Transfer Contributions - Employer	855,031	855,031	855,031
Transfer Contributions - Member	2,518,571	2,518,571	2,518,571
Interest	1,972,097,919	2,065,833,857	2,133,899,042
Total Pension Liability, 6/30/2024	\$ 33,762,959,178	\$ 30,497,816,419	\$ 27,725,238,479

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SECTION IV – PROJECTION OF TOTAL PENSION LIABILITY

Table IV-1B Projection of Total Pension Liability from Valuation to Measurement Date Local Employers			
Discount Rate	6.00%	7.00%	8.00%
Total Pension Liability, 7/1/2023			
Actives	\$ 19,714,323,910	\$ 17,229,982,547	\$ 15,154,106,554
Deferred Vested	50,808,761	45,021,517	40,220,280
Retirees	<u>26,947,739,223</u>	<u>24,960,923,784</u>	<u>23,232,970,003</u>
Total	\$ 46,712,871,894	\$ 42,235,927,848	\$ 38,427,296,837
Service Cost	941,596,431	775,870,657	649,257,106
Benefit Payments	(2,791,423,407)	(2,791,423,407)	(2,791,423,407)
Transfer Contributions - Employer	(5,388,663)	(5,388,663)	(5,388,663)
Transfer Contributions - Member	(13,616,879)	(13,616,879)	(13,616,879)
Interest	<u>2,776,183,349</u>	<u>2,914,124,534</u>	<u>3,015,869,826</u>
Total Pension Liability, 6/30/2024	\$ 47,620,222,725	\$ 43,115,494,090	\$ 39,281,994,820

Table IV-1C Projection of Total Pension Liability from Valuation to Measurement Date Total			
Discount Rate	6.00%	7.00%	8.00%
Total Pension Liability, 7/1/2023			
Actives	\$ 32,784,111,860	\$ 28,569,821,203	\$ 25,055,356,400
Deferred Vested	75,286,311	66,542,363	59,303,755
Retirees	<u>47,183,889,923</u>	<u>43,680,070,352</u>	<u>40,635,036,527</u>
Total	\$ 80,043,288,094	\$ 72,316,433,918	\$ 65,749,696,682
Service Cost	1,525,978,602	1,251,284,261	1,042,133,810
Benefit Payments	(4,918,734,121)	(4,918,734,121)	(4,918,734,121)
Transfer Contributions - Employer	(4,533,632)	(4,533,632)	(4,533,632)
Transfer Contributions - Member	(11,098,308)	(11,098,308)	(11,098,308)
Interest	<u>4,748,281,268</u>	<u>4,979,958,391</u>	<u>5,149,768,868</u>
Total Pension Liability, 6/30/2024	\$ 81,383,181,903	\$ 73,613,310,509	\$ 67,007,233,299

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SECTION V – NOTE DISCLOSURES

The following tables show the changes in the Total Pension Liability, the Plan Fiduciary Net Position (i.e., fair value of System assets), and the Net Pension Liability during the Measurement Year.

Table V-1A Change in Net Pension Liability State			
	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances at 6/30/2023	\$ 29,889,262,049	\$ 7,431,214,496	\$ 22,458,047,553
Changes for the year:			
Service cost	475,413,604		475,413,604
Interest	2,052,446,776		2,052,446,776
Changes of benefits	0		0
Differences between expected and actual experience	204,631,102		204,631,102
Changes of assumptions	0		0
Contributions - employer (appropriations)		1,631,896,261	(1,631,896,261)
Contributions - employer (NCGI)		38,760,551	(38,760,551)
Contributions - employer (lottery)		246,985,000	(246,985,000)
Contributions - member		378,562,135	(378,562,135)
Transfers from other systems - employer	855,031	855,031	0
Transfers from other systems - member	2,518,571	2,518,571	0
Employer contribution - delayed enrollment	0	173,371	(173,371)
Employer contribution - delayed appropriations	0	0	0
Employer contribution - retroactive	0	0	0
Employer contribution - additional	0	0	0
Other - NCGIPF adjustment	0	0	0
Other - Chapter 19 adjustment		0	0
Net investment income		734,071,553	(734,071,553)
Benefit payments	(2,127,310,714)	(2,127,310,714)	0
Administrative expense		(10,145,458)	10,145,458
Net changes	608,554,370	896,366,301	(287,811,931)
Balances at 6/30/2024	<u>\$ 30,497,816,419</u>	<u>\$ 8,327,580,797</u>	<u>\$ 22,170,235,622</u>

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SECTION V – NOTE DISCLOSURES

Table V-1B Change in Net Pension Liability Local Employers			
	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances at 6/30/2023	\$ 42,006,927,506	\$ 27,400,438,440	\$ 14,606,489,066
Changes for the year:			
Service cost	775,870,657		775,870,657
Interest	2,898,094,511		2,898,094,511
Changes of benefits	0		0
Differences between expected and actual experience	245,030,365		245,030,365
Changes of assumptions	0		0
Contributions - employer (appropriations)		1,302,428,289	(1,302,428,289)
Contributions - employer (NCGI)		58,292,182	(58,292,182)
Contributions - employer (paid by State on behalf of locals)		61,435,556	(61,435,556)
Contributions - member		635,426,639	(635,426,639)
Transfers from other systems - employer	(5,388,663)	(5,388,663)	0
Transfers from other systems - member	(13,616,879)	(13,616,879)	0
Employer contribution - delayed enrollment	0	997,508	(997,508)
Employer contribution - delayed appropriations	0	4,693,651	(4,693,651)
Employer contribution - retroactive	0	7,524,065	(7,524,065)
Employer contribution - additional	0	9,123,535	(9,123,535)
Other - NCGIPF adjustment	0	0	0
Other - Chapter 19 adjustment		23,362,550	(23,362,550)
Net investment income		2,742,218,227	(2,742,218,227)
Benefit payments	(2,791,423,407)	(2,791,423,407)	0
Administrative expense		(22,441,588)	22,441,588
Net changes	1,108,566,584	2,012,631,665	(904,065,081)
Balances at 6/30/2024	<u>\$ 43,115,494,090</u>	<u>\$ 29,413,070,105</u>	<u>\$ 13,702,423,985</u>

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SECTION V – NOTE DISCLOSURES

Table V-1C Change in Net Pension Liability Total			
	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances at 6/30/2023	\$ 71,896,189,555	\$ 34,831,652,936	\$ 37,064,536,619
Changes for the year:			
Service cost	1,251,284,261		1,251,284,261
Interest	4,950,541,287		4,950,541,287
Changes of benefits	0		0
Differences between expected and actual experience	449,661,467		449,661,467
Changes of assumptions	0		0
Contributions - employer (appropriations)		2,934,324,550	(2,934,324,550)
Contributions - employer (NCGI)		97,052,733	(97,052,733)
Contributions - employer (lottery)		246,985,000	(246,985,000)
Contributions - employer (paid by State on behalf of locals)		61,435,556	(61,435,556)
Contributions - member		1,013,988,774	(1,013,988,774)
Transfers from other systems - employer	(4,533,632)	(4,533,632)	0
Transfers from other systems - member	(11,098,308)	(11,098,308)	0
Employer contribution - delayed enrollment	0	1,170,879	(1,170,879)
Employer contribution - delayed appropriations	0	4,693,651	(4,693,651)
Employer contribution - retroactive	0	7,524,065	(7,524,065)
Employer contribution - additional	0	9,123,535	(9,123,535)
Other - NCGIPF adjustment	0	0	0
Other - Chapter 19 adjustment		23,362,550	(23,362,550)
Net investment income		3,476,289,780	(3,476,289,780)
Benefit payments	(4,918,734,121)	(4,918,734,121)	0
Administrative expense		(32,587,046)	32,587,046
Net changes	1,717,120,954	2,908,997,966	(1,191,877,012)
Balances at 6/30/2024	<u>\$ 73,613,310,509</u>	<u>\$ 37,740,650,902</u>	<u>\$ 35,872,659,607</u>

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Changes in the discount rate affect the measurement of the TPL. Lower discount rates produce a higher TPL and higher discount rates produce a lower TPL. Because the discount rate does not affect the measurement of assets, the percentage change in the NPL can be very significant for a relatively small change in the discount rate. The following table shows the sensitivity of the NPL to the discount rate.

Table V-2 Sensitivity of Net Pension Liability to Changes in Discount Rate			
	1% Decrease 6.00%	Discount Rate 7.00%	1% Increase 8.00%
<u>State</u>			
Total Pension Liability	\$ 33,762,959,178	\$ 30,497,816,419	\$ 27,725,238,479
Plan Fiduciary Net Position	<u>8,327,580,797</u>	<u>8,327,580,797</u>	<u>8,327,580,797</u>
Net Pension Liability	<u>\$ 25,435,378,381</u>	<u>\$ 22,170,235,622</u>	<u>\$ 19,397,657,682</u>
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	24.7%	27.3%	30.0%
<u>Local Employers</u>			
Total Pension Liability	\$ 47,620,222,725	\$ 43,115,494,090	\$ 39,281,994,820
Plan Fiduciary Net Position	<u>29,413,070,105</u>	<u>29,413,070,105</u>	<u>29,413,070,105</u>
Net Pension Liability	<u>\$ 18,207,152,620</u>	<u>\$ 13,702,423,985</u>	<u>\$ 9,868,924,715</u>
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	61.8%	68.2%	74.9%
<u>Total</u>			
Total Pension Liability	\$ 81,383,181,903	\$ 73,613,310,509	\$ 67,007,233,299
Plan Fiduciary Net Position	<u>37,740,650,902</u>	<u>37,740,650,902</u>	<u>37,740,650,902</u>
Net Pension Liability	<u>\$ 43,642,531,001</u>	<u>\$ 35,872,659,607</u>	<u>\$ 29,266,582,397</u>
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	46.4%	51.3%	56.3%

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SECTION VI – REQUIRED SUPPLEMENTARY INFORMATION

The schedules below show the changes in NPL and related ratios required by GASB for the current and prior year.

Table VI-1A Schedule of Changes in Net Pension Liability and Related Ratios State		
	FYE 2024	FYE 2023
<u>Total Pension Liability</u>		
Service cost	\$ 475,413,604	\$ 468,862,341
Interest (includes interest on service cost)	2,052,446,776	2,001,175,018
Changes of benefit terms	0	0
Differences between expected and actual experience	204,631,102	360,675,620
Changes of assumptions	0	0
Transfers from other systems - employer	855,031	(295,378)
Transfers from other systems - member	2,518,571	3,635,743
Benefit payments, including refunds of member contributions	(2,127,310,714)	(2,089,660,605)
Net change in total pension liability	\$ 608,554,370	\$ 744,392,739
Total pension liability - beginning	29,889,262,049	29,144,869,310
Total pension liability - ending	\$ 30,497,816,419	\$ 29,889,262,049
<u>Plan fiduciary net position</u>		
Contributions - employer (appropriations)	\$ 1,631,896,261	\$ 1,569,342,915
Contributions - employer (NCGI)	38,760,551	45,638,724
Contributions - employer (lottery)	246,985,000	245,934,000
Contributions - member	378,562,135	357,335,214
Transfers from other systems - employer	855,031	(295,378)
Transfers from other systems - member	2,518,571	3,635,743
Employer contribution - delayed enrollment	173,371	240,648
Employer contribution - delayed appropriations	0	0
Employer contribution - retroactive	0	0
Employer contribution - additional	0	0
Other - NCGIPF adjustment	0	0
Other - Chapter 19 adjustment	0	0
Net investment income	734,071,553	546,916,081
Benefit payments, including refunds of member contributions	(2,127,310,714)	(2,089,660,605)
Administrative expense	(10,145,458)	(5,911,110)
Net change in plan fiduciary net position	\$ 896,366,301	\$ 673,176,232
Plan fiduciary net position - beginning	7,431,214,496	6,758,038,264
Plan fiduciary net position - ending	\$ 8,327,580,797	\$ 7,431,214,496
Net pension liability - ending	\$ 22,170,235,622	\$ 22,458,047,553
Plan fiduciary net position as a percentage of the total pension liability	27.31%	24.86%
Covered payroll	\$ 4,769,262,833	\$ 4,664,968,264
Net pension liability as a percentage of covered payroll	464.86%	481.42%

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SECTION VI – REQUIRED SUPPLEMENTARY INFORMATION

Table VI-1B Schedule of Changes in Net Pension Liability and Related Ratios Local Employers		
	FYE 2024	FYE 2023
<u>Total Pension Liability</u>		
Service cost	\$ 775,870,657	\$ 749,639,969
Interest (includes interest on service cost)	2,898,094,511	2,830,993,676
Changes of benefit terms	0	0
Differences between expected and actual experience	245,030,365	115,283,208
Changes of assumptions	0	0
Transfers from other systems - employer	(5,388,663)	(1,956,284)
Transfers from other systems - member	(13,616,879)	(12,675,156)
Benefit payments, including refunds of member contributions	(2,791,423,407)	(2,703,626,872)
Net change in total pension liability	\$ 1,108,566,584	\$ 977,658,541
Total pension liability - beginning	42,006,927,506	41,029,268,965
Total pension liability - ending	\$ 43,115,494,090	\$ 42,006,927,506
<u>Plan fiduciary net position</u>		
Contributions - employer (appropriations)	\$ 1,302,428,289	\$ 1,280,103,723
Contributions - employer (NCGI)	58,292,182	56,423,536
Contributions - employer (paid by State on behalf of locals)	61,435,556	61,366,036
Contributions - member	635,426,639	604,584,027
Transfers from other systems - employer	(5,388,663)	(1,956,284)
Transfers from other systems - member	(13,616,879)	(12,675,156)
Employer contribution - delayed enrollment	997,508	746,888
Employer contribution - delayed appropriations	4,693,651	3,050,065
Employer contribution - retroactive	7,524,065	7,305,219
Employer contribution - additional	9,123,535	38,784
Other - NCGIPF adjustment	0	0
Other - Chapter 19 adjustment	23,362,550	0
Net investment income	2,742,218,227	2,308,223,907
Benefit payments, including refunds of member contributions	(2,791,423,407)	(2,703,626,872)
Administrative expense	(22,441,588)	(13,229,478)
Net change in plan fiduciary net position	\$ 2,012,631,665	\$ 1,590,354,395
Plan fiduciary net position - beginning	27,400,438,440	25,810,084,045
Plan fiduciary net position - ending	\$ 29,413,070,105	\$ 27,400,438,440
Net pension liability - ending	\$ 13,702,423,985	\$ 14,606,489,066
Plan fiduciary net position as a percentage of the total pension liability	68.22%	65.23%
Covered payroll	\$ 7,952,897,088	\$ 7,591,465,466
Net pension liability as a percentage of covered payroll	172.29%	192.41%

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SECTION VI – REQUIRED SUPPLEMENTARY INFORMATION

Table VI-1C Schedule of Changes in Net Pension Liability and Related Ratios Total		
	FYE 2024	FYE 2023
<u>Total Pension Liability</u>		
Service cost	\$ 1,251,284,261	\$ 1,218,502,310
Interest (includes interest on service cost)	4,950,541,287	4,832,168,694
Changes of benefit terms	0	0
Differences between expected and actual experience	449,661,467	475,958,828
Changes of assumptions	0	0
Transfers from other systems - employer	(4,533,632)	(2,251,662)
Transfers from other systems - member	(11,098,308)	(9,039,413)
Benefit payments, including refunds of member contributions	(4,918,734,121)	(4,793,287,477)
Net change in total pension liability	\$ 1,717,120,954	\$ 1,722,051,280
Total pension liability - beginning	71,896,189,555	70,174,138,275
Total pension liability - ending	\$ 73,613,310,509	\$ 71,896,189,555
<u>Plan fiduciary net position</u>		
Contributions - employer (appropriations)	\$ 2,934,324,550	\$ 2,849,446,638
Contributions - employer (NCGI)	97,052,733	102,062,260
Contributions - employer (lottery)	246,985,000	245,934,000
Contributions - employer (paid by State on behalf of locals)	61,435,556	61,366,036
Contributions - member	1,013,988,774	961,919,241
Transfers from other systems - employer	(4,533,632)	(2,251,662)
Transfers from other systems - member	(11,098,308)	(9,039,413)
Employer contribution - delayed enrollment	1,170,879	987,536
Employer contribution - delayed appropriations	4,693,651	3,050,065
Employer contribution - retroactive	7,524,065	7,305,219
Employer contribution - additional	9,123,535	38,784
Other - NCGIPF adjustment	0	0
Other - Chapter 19 adjustment	23,362,550	0
Net investment income	3,476,289,780	2,855,139,988
Benefit payments, including refunds of member contributions	(4,918,734,121)	(4,793,287,477)
Administrative expense	(32,587,046)	(19,140,588)
Net change in plan fiduciary net position	\$ 2,908,997,966	\$ 2,263,530,627
Plan fiduciary net position - beginning	34,831,652,936	32,568,122,309
Plan fiduciary net position - ending	\$ 37,740,650,902	\$ 34,831,652,936
Net pension liability - ending	\$ 35,872,659,607	\$ 37,064,536,619
Plan fiduciary net position as a percentage of the total pension liability	51.27%	48.45%
Covered payroll	\$ 12,722,159,921	\$ 12,256,433,730
Net pension liability as a percentage of covered payroll	281.97%	302.41%

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SECTION VI – REQUIRED SUPPLEMENTARY INFORMATION

Since an Actuarially Determined Contribution (ADC) is calculated, the following schedule is required. An ADC is a contribution amount determined in accordance with Actuarial Standards of Practice. Amounts shown for the ADC and actual contributions in the table below include the Non-Contributory Group Insurance Premium Fund costs.

Table VI-2 Schedule of Employer Contributions		
	FYE 2024	FYE 2023
<u>State</u>		
Actuarially Determined Contribution*	\$ 1,862,171,490	\$ 1,805,361,812
Contributions in Relation to the Actuarially Determined Contribution*	<u>1,979,077,368</u>	<u>1,922,281,675</u>
Contribution Deficiency/(Excess)	\$ (116,905,878)	\$ (116,919,863)
Covered Payroll	\$ 4,769,262,833	\$ 4,664,968,264
Contributions as a Percentage of Covered Payroll	41.50%	41.21%
<u>Local Employers</u>		
Actuarially Determined Contribution*	\$ 1,347,320,756	\$ 1,272,913,017
Contributions in Relation to the Actuarially Determined Contribution*	<u>1,347,319,672</u>	<u>1,272,913,017</u>
Contribution Deficiency/(Excess)	\$ 1,084	\$ 0
Covered Payroll	\$ 7,952,897,088	\$ 7,591,465,466
Contributions as a Percentage of Covered Payroll	16.94%	16.77%
<u>System Total</u>		
Actuarially Determined Contribution*	\$ 3,209,492,246	\$ 3,078,274,829
Contributions in Relation to the Actuarially Determined Contribution*	<u>3,326,397,040</u>	<u>3,195,194,692</u>
Contribution Deficiency/(Excess)	\$ (116,904,794)	\$ (116,919,863)
Covered Payroll	\$ 12,722,159,921	\$ 12,256,433,730
Contributions as a Percentage of Covered Payroll	26.15%	26.07%

* Includes NCGIPF

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SECTION VI – REQUIRED SUPPLEMENTARY INFORMATION

The following summarizes key methods and assumptions used to determine the Actuarially Determined Contribution for FYE 2024.

Valuation Date:	July 1, 2022
Timing:	Actuarial determined contributions are calculated as of the July 1 preceding the fiscal year in which contributions are made.
Actuarial cost method:	Projected Unit Credit
Amortization method:	Level dollar
Remaining amortization period:	27 years
Asset valuation method:	5-year smoothing of difference between market value and expected actuarial value
Investment rate of return:	7.00%
Salary increases:	Service-based rates scaling from 6.55% at enrollment to 2.75% at 28 or more years of service
Mortality:	<u>Pre-Retirement Mortality (Non-Annuitants):</u> The Pub-2010 General Below-Median Income Employee mortality table [<i>PubG-2010(B) Employee</i>] as published by the Society of Actuaries (SOA) with an 82.2% adjustment for males and 101.4% adjustment for females, and with future improvement from the base year of 2010 on a generational basis using SOA's Scale MP-2021. All pre-retirement deaths are assumed to be ordinary deaths. <u>Healthy Retirees and Beneficiaries (Healthy Annuitants):</u> The Pub-2010 General Below-Median Income Healthy Retiree mortality table [<i>PubG-2010(B) Healthy Retiree</i>] as published by the Society of Actuaries with a 91.4% adjustment for males and 99.7% adjustment for females, and with future improvement from the base year of 2010 on a generational basis using SOA's Scale MP-2021. <u>Disabled Retirees (Disabled Annuitants):</u> The Pub-2010 Non-Safety Disabled Retiree mortality table [<i>PubNS-2010 Disabled Retiree</i>] as published by the Society of Actuaries with a 127.7% adjustment for males and 117.2% adjustment for females, and with future improvement from the base year of 2010 on a generational basis using SOA's Scale MP-2021.

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APPENDIX A – MEMBERSHIP INFORMATION

	Plan Membership					
	July 1, 2023			July 1, 2022		
	State	Local	Total	State	Local	Total
Contributing Actives	64,048	140,550	204,598	64,357	139,073	203,430
Non-Contributing Actives	10,519	29,207	39,726	9,786	27,935	37,721
Deferred Beneficiaries	10	63	73	11	67	78
Terminated Vested	146	427	573	147	433	580
Inactive Receiving Benefits*	63,777	130,138	193,915	62,842	128,199	191,041
Total	138,500	300,385	438,885	137,143	295,707	432,850
Annual Compensation for Contributing Actives	\$ 4,769,262,833	\$ 7,952,897,088	\$ 12,722,159,921	\$ 4,664,968,264	\$ 7,591,465,466	\$ 12,256,433,730
Annual Retirement Allowances for Those Receiving Benefits	\$ 1,918,915,717	\$ 2,612,310,525	\$ 4,531,226,242	\$ 1,857,631,695	\$ 2,517,340,724	\$ 4,374,972,419

* QDRO recipients are excluded from the counts for both years.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

A. Actuarial Assumptions

- | | |
|--|---|
| 1. Investment Rate of Return for determining Actuarially Determined Contributions | 7.00% per annum, compounded annually. |
| 2. Long-Term Expected Rate of Return | 7.00% per annum, compounded annually. |
| 3. Interest Crediting Rate on Accumulated Deductions | 7.00% per annum, compounded annually. Interest credits are assumed to end upon termination. |
| 4. GASB 67 Effective Discount Rate | <ul style="list-style-type: none">• June 30, 2023: 7.00% per annum, compounded annually.• June 30, 2024: 7.00% per annum, compounded annually. |
| 5. Price Inflation | <ul style="list-style-type: none">• 2.75% per annum, compounded annually. |
| 6. Wage Inflation | <ul style="list-style-type: none">• 3.25% per annum, compounded annually. |
| 7. Cost-of-Living Adjustments (COLAs) | No future COLAs are assumed. Previously granted COLAs are included in the data. |

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- 8. Salary Increases** Salaries are assumed to increase annually as follows:

Years of Service	Rates
0	6.55%
1	6.55
2	6.35
3	6.15
4	5.95
5	5.75
6	5.55
7	5.35
8	5.15
9	4.95
10	4.75
11	4.55
12	4.35
13	4.15
14	3.95
15	3.75
16	3.55
17	3.45
18	3.35
19	3.25
20	3.15
21	3.05
22	2.95
23-27	2.85
28+	2.75

Salary increases are assumed to occur on July 1.

Non-contributing members reported with a salary are assumed to have no future salary increase.

- 9. 401(a)(17) Pay Limit** \$330,000 in 2023 increasing 2.75% per annum, compounded annually.
- 10. Social Security Wage Base** \$160,200 in 2023 increasing 3.25% per annum, compounded annually.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

11. Termination

Termination rates are shown separately for members electing a refund of contributions and members electing a deferred annuity.

Termination rates for members electing a refund of contributions are as follows:

Termination Rates for Members Electing a Refund				
Service	State		Local Employers'	
	Less than 31 Years Old	31 Years or Older	Less than 31 Years Old	31 Years or Older
0	21.00%	11.00%	19.00%	11.50%
1	21.00	11.00	19.00	11.50
2	11.50	7.50	15.50	8.50
3	9.50	6.50	14.00	7.50
4	9.00	5.50	11.50	6.50
5	8.00	5.50	10.50	6.00
6	7.00	5.00	8.50	5.50
7	7.00	4.50	8.00	5.00
8	7.00	4.00	7.50	4.50
9	7.00	3.50	6.50	4.00
10	1.70	1.70	1.70	1.70
11	1.50	1.50	1.50	1.50
12	1.10	1.10	1.40	1.40
13	1.10	1.10	1.20	1.20
14	0.70	0.70	1.10	1.10
15	0.60	0.60	0.90	0.90
16	0.60	0.60	0.80	0.80
17	0.60	0.60	0.70	0.70
18	0.50	0.50	0.60	0.60
19	0.50	0.50	0.60	0.60
20	0.50	0.50	0.50	0.50
21	0.50	0.50	0.50	0.50
22	0.40	0.40	0.50	0.50
23	0.40	0.40	0.40	0.40
24-29	0.30	0.30	0.30	0.30

No termination is assumed after attainment of retirement eligibility.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

Termination rates for members electing a deferred annuity are as follows:

Termination Rates for Members Electing a Deferred Annuity		
Service	State	Local Employers
< 10	N/A	N/A
10	1.60%	1.80%
11	1.60	1.80
12	1.20	1.70
13	1.20	1.60
14	1.00	1.50
15	0.90	1.40
16	0.90	1.30
17	0.80	1.20
18	0.80	1.10
19	0.80	1.00
20	0.80	1.00
21	0.70	0.90
22	0.50	0.80
23	0.50	0.80
24	0.40	0.70

No termination is assumed after attainment of retirement eligibility.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

12. Disability

Ordinary disability rates are as follows:

Ordinary Disability Rates					
Age	State	Local Employers	Age	State	Local Employers
25	0.100%	0.200%	50	0.335%	0.335%
26	0.110	0.200	51	0.350	0.350
27	0.120	0.200	52	0.365	0.365
28	0.130	0.200	53	0.380	0.380
29	0.140	0.200	54	0.395	0.395
30	0.150	0.205	55	0.410	0.405
31	0.160	0.210	56	0.425	0.415
32	0.170	0.215	57	0.440	0.425
33	0.180	0.220	58	0.455	0.435
34	0.190	0.225	59	0.470	0.445
35	0.205	0.225	60	0.485	0.455
36	0.220	0.225	61	0.500	0.465
37	0.220	0.225	62	0.515	0.475
38	0.220	0.225	63	0.530	0.485
39	0.220	0.225	64	0.545	0.495
40	0.230	0.235	65	0.560	0.505
41	0.240	0.245	66	0.575	0.515
42	0.250	0.255	67	0.590	0.525
43	0.260	0.265	68	0.605	0.535
44	0.270	0.275	69	0.620	0.545
45	0.280	0.275	70	0.630	0.560
46	0.290	0.275	71	0.640	0.575
47	0.300	0.290	72	0.650	0.590
48	0.310	0.305	73	0.660	0.605
49	0.320	0.320	74	0.670	0.620

Accidental disability rates are assumed to be 0.02% for all State members and 0.03% for all Local employers' members.

Ordinary disability rates apply upon attainment of 10 years of service and continue through the ultimate retirement age.

Members are assumed to receive the greater of the applicable disability benefit or the early or service retirement benefit, depending on eligibility.

Tier 4 and Tier 5 members are not eligible for the Ordinary or Accidental Disability benefits, but the disability rates still apply. Such members terminating under the disability decrement are assumed to separate from service and elect a Deferred Retirement benefit.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

13. Mortality

Pre-Retirement Mortality (Non-Annuitants): The Pub-2010 General Below-Median Income Employee mortality table [*PubG-2010(B) Employee*] as published by the Society of Actuaries with an 82.2% adjustment for males and 101.4% adjustment for females, and with future improvement from the base year of 2010 on a generational basis using SOA's Scale MP-2021.

All pre-retirement deaths are assumed to be ordinary deaths.

Healthy Retirees and Beneficiaries (Healthy Annuitants): The Pub-2010 General Below-Median Income Healthy Retiree mortality table [*PubG-2010(B) Healthy Retiree*] as published by the Society of Actuaries with a 91.4% adjustment for males and 99.7% adjustment for females, and with future improvement from the base year of 2010 on a generational basis using SOA's Scale MP-2021.

Disabled Retirees (Disabled Annuitants): The Pub-2010 Non-Safety Disabled Retiree mortality table [*PubNS-2010 Disabled Retiree*] as published by the Society of Actuaries with a 127.7% adjustment for males and 117.2% adjustment for females, and with future improvement from the base year of 2010 on a generational basis using SOA's Scale MP-2021.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

14. Retirement

Retirement rates for State Tier 1-4 members are as follows:

State Tiers 1-4 Retirement Rates			
Age	Less Than 25 Years of Service	25 Years of Service	26 or More Years of Service
< 49	N/A	3.50%	2.00%
49	N/A	3.50	2.00
50	N/A	3.50	3.50
51	N/A	3.50	3.50
52	N/A	6.00	4.25
53	N/A	6.00	5.50
54	N/A	7.00	6.75
55	N/A	17.50	18.00
56	N/A	17.50	15.00
57	N/A	17.50	14.00
58	N/A	20.00	14.00
59	N/A	20.00	14.00
60	5.00	20.00	17.00
61	5.00	30.00	17.00
62	8.00	36.50	27.00
63	8.00	36.50	24.00
64	8.00	36.50	21.00
65	12.00	44.00	25.00
66	17.00	55.00	30.00
67	16.00	50.00	26.00
68	15.00	47.00	23.00
69	15.00	47.00	23.00
70	15.00	47.00	26.00
71	15.00	47.00	23.00
72	15.00	47.00	21.00
73	15.00	47.00	21.00
74	15.00	47.00	21.00
75	100.00	100.00	100.00

Rates apply upon retirement eligibility by tier.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

Retirement rates for Local employers' Tier 1-4 members are as follows:

Local Employers' Tiers 1-4 Retirement Rates			
Age	Less Than 25 Years of Service	25 Years of Service	26 or More Years of Service
< 49	N/A	3.00%	2.25%
49	N/A	3.00	3.00
50	N/A	3.50	3.50
51	N/A	4.25	3.75
52	N/A	4.75	3.75
53	N/A	7.00	5.00
54	N/A	7.00	6.00
55	N/A	15.00	15.00
56	N/A	17.00	13.00
57	N/A	18.00	12.00
58	N/A	18.00	12.00
59	N/A	18.00	12.00
60	4.50	18.00	14.00
61	4.50	18.00	14.00
62	7.50	34.00	25.00
63	7.50	34.00	22.00
64	7.50	34.00	20.00
65	11.00	35.00	20.00
66	15.00	43.00	26.00
67	14.00	40.00	26.00
68	13.00	40.00	22.00
69	13.00	37.00	22.00
70	13.00	37.00	24.00
71	13.00	37.00	24.00
72	13.00	37.00	20.00
73	13.00	37.00	20.00
74	13.00	37.00	20.00
75	100.00	100.00	100.00

Rates apply upon retirement eligibility by tier.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

Retirement rates for State Tier 5 members are as follows:

State Tier 5 Retirement Rates					
Age	Less Than 25 Years of Service	25 Years of Service	26 to 29 Years of Service	30 Years of Service	31 or More Years of Service
< 49	N/A	N/A	N/A	3.50%	2.00%
49	N/A	N/A	N/A	3.50	2.00
50	N/A	N/A	N/A	3.50	3.50
51	N/A	N/A	N/A	3.50	3.50
52	N/A	N/A	N/A	6.00	4.25
53	N/A	N/A	N/A	6.00	5.50
54	N/A	N/A	N/A	7.00	6.75
55	N/A	N/A	N/A	17.50	18.00
56	N/A	N/A	N/A	17.50	15.00
57	N/A	N/A	N/A	17.50	14.00
58	N/A	N/A	N/A	20.00	14.00
59	N/A	N/A	N/A	20.00	14.00
60	N/A	N/A	N/A	20.00	17.00
61	N/A	N/A	N/A	30.00	17.00
62	N/A	N/A	N/A	36.50	27.00
63	N/A	N/A	N/A	36.50	24.00
64	N/A	N/A	N/A	36.50	21.00
65	12.00	44.00	44.00	44.00	25.00
66	17.00	55.00	30.00	30.00	30.00
67	16.00	50.00	26.00	26.00	26.00
68	15.00	47.00	23.00	23.00	23.00
69	15.00	47.00	23.00	23.00	23.00
70	15.00	47.00	26.00	26.00	26.00
71	15.00	47.00	23.00	23.00	23.00
72	15.00	47.00	21.00	21.00	21.00
73	15.00	47.00	21.00	21.00	21.00
74	15.00	47.00	21.00	21.00	21.00
75	100.00	100.00	100.00	100.00	100.00

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

Retirement rates for Local employers' Tier 5 members are as follows:

Local Employers' Tier 5 Retirement Rates					
Age	Less Than 25 Years of Service	25 Years of Service	26 to 29 Years of Service	30 Years of Service	31 or More Years of Service
< 49	N/A	N/A	N/A	3.00%	2.25%
49	N/A	N/A	N/A	3.00	3.00
50	N/A	N/A	N/A	3.50	3.50
51	N/A	N/A	N/A	4.25	3.75
52	N/A	N/A	N/A	4.75	3.75
53	N/A	N/A	N/A	7.00	5.00
54	N/A	N/A	N/A	7.00	6.00
55	N/A	N/A	N/A	15.00	15.00
56	N/A	N/A	N/A	17.00	13.00
57	N/A	N/A	N/A	18.00	12.00
58	N/A	N/A	N/A	18.00	12.00
59	N/A	N/A	N/A	18.00	12.00
60	N/A	N/A	N/A	18.00	14.00
61	N/A	N/A	N/A	18.00	14.00
62	N/A	N/A	N/A	34.00	25.00
63	N/A	N/A	N/A	34.00	22.00
64	N/A	N/A	N/A	34.00	20.00
65	11.00	35.00	35.00	35.00	20.00
66	15.00	43.00	26.00	26.00	26.00
67	14.00	40.00	26.00	26.00	26.00
68	13.00	40.00	22.00	22.00	22.00
69	13.00	37.00	22.00	22.00	22.00
70	13.00	37.00	24.00	24.00	24.00
71	13.00	37.00	24.00	24.00	24.00
72	13.00	37.00	20.00	20.00	20.00
73	13.00	37.00	20.00	20.00	20.00
74	13.00	37.00	20.00	20.00	20.00
75	100.00	100.00	100.00	100.00	100.00

Retirement rates for members of Prosecutors Part (Chapter 366, P.L. 2001 and Chapter 226, P.L. 2021) are as follows:

- Members with less than 25 years of service: 6.0% for all ages,
- Members with 25 years of service: 40.0% for all ages,
- Members with 26 or more years of service: 20.0% for all ages.

Rates apply upon retirement eligibility. 100% retirement is assumed at age 70.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

Retirement rates for members of WCJ Part (Chapter 140, P.L. 2021) are as follows:

Age	Less than 15 Years of WCJ Part Service	15-19 Years of WCJ Part Service	20 or more Years of WCJ Part Service
<60	0.0%	0.0%	0.0%
60	2.0	2.0	20.0
61	2.0	2.0	20.0
62	2.0	2.0	20.0
63	2.0	2.0	20.0
64	2.0	2.0	20.0
65	5.0	40.0	30.0
66	2.0	40.0	20.0
67	2.0	40.0	20.0
68	2.0	40.0	20.0
69	2.0	40.0	20.0
70	100.0	100.0	100.0

15. Family Composition Assumptions

For members not currently in receipt, 50% of members are assumed married to spouses of the opposite sex. Males are assumed to be two years older than females.

For purposes of the optional form of payment death benefit for members currently in receipt, beneficiary status is based on the beneficiary allowance reported. If no beneficiary date of birth is provided, the beneficiary is assumed to be the member's spouse of the opposite sex with males assumed to be two years older than females.

No additional dependent children or parents are assumed.

16. Form of Payment

Current active members are assumed to elect the Maximum Option.

17. Non-Contributory Group Insurance Form of Payment

All benefits are assumed to be paid as lump sums.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

18. Data

Non-contributing members reported without a salary are included in the valuation with a liability based on the reported Accumulated Deductions with interest (Annuity Savings Fund or ASF), adjusted to include interest through the valuation date.

Per discussions with DPB, the statuses for active records in Locations 4 – 7 (General Assembly and Senate) are based on changes in service instead of the contribution code.

For current beneficiaries with incomplete information, reasonable assumptions were made based on information available in prior years.

Deferred beneficiaries were reported separately from other non-contributing members for the first time in 2021. The benefit is based on the reported Accumulated Deductions with interest (Annuity Savings Fund or ASF).

Inactive participants receiving benefits according to the 2022 data but omitted from the 2023 data are assumed to have died without a beneficiary.

For retirees who earned benefits under both a State and Local employer, their total benefit is assigned to the location with the highest salary prior to retirement.

Tier 4 and 5 members on long-term disability appeared on the active data for the first time in 2019. The number of members on long-term disability is immaterial for valuation purposes. Therefore, we valued these members as regular contributing and non-contributing members while we gain clarity on what happens with these members.

19. Rationale for Assumptions

The demographic and economic assumptions used in this report, except for the investment return assumption, reflect the results of the July 1, 2018 – June 30, 2021 Experience Study, which was approved by the Board of Trustees on November 16, 2022.

The investment return assumption was recommended by the State Treasurer. We find the investment return assumption to be reasonable based on the System's current asset allocation and the capital market outlook of the New Jersey Division of Investment.

The combined effect of the assumptions in aggregate is expected to have no significant bias.

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APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

20. Projection Basis

This report includes projections of future assets, benefit payments and contributions for the purpose of determining the GASB 67 discount rate.

The projections are based on the census data as of July 1, 2023 and the financial information as of June 30, 2024. The projections assume continuation of the Plan provisions and actuarial assumptions in effect as of July 1, 2024 and do not reflect the impact of any changes in benefits or actuarial assumptions that may be adopted after July 1, 2024 unless otherwise indicated. While the assumptions individually are reasonable for the underlying valuation that supports the projections, specifically for projection purposes, they are also considered reasonable in the aggregate.

**21. Changes in
Assumption since
Last Valuation**

None.

APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

B. Actuarial Methods

The actuarial methods used for determining State and Local employer contributions are described below.

1. Actuarial Cost Method

The actuarial cost method for funding calculations is the Projected Unit Credit Cost Method. Non-contributing members reported with a salary use the Projected Unit Credit Cost Method without any future projected salary increases.

The actuarial liability is calculated as the actuarial present value of the projected benefits linearly allocated to periods prior to the valuation year based on service (WCJ Part Service for members in the WCJ Part). Refunds are valued as the reported Accumulated Deductions with interest as of the valuation date. The unfunded actuarial liability is the actuarial liability on the valuation date less the actuarial value of assets.

In accordance with Chapter 78, P.L. 2011:

- Beginning with the July 1, 2010 actuarial valuation, the accrued liability contribution shall be computed so that if the contribution is paid annually in level dollars, it will amortize the unfunded accrued liability over an open 30-year period.
- Beginning with the July 1, 2019 actuarial valuation, the accrued liability contribution shall be computed so that if the contribution is paid annually in level dollars, it will amortize the unfunded accrued liability over a closed 30-year period (i.e., for each subsequent actuarial valuation the amortization period shall decrease by one year).
- Beginning with the July 1, 2029 actuarial valuation, when the remaining amortization period reaches 20 years, any increase or decrease in the unfunded accrued liability as a result of actuarial losses or gains for subsequent valuation years shall serve to increase or decrease, respectively, the amortization period for the unfunded accrued liability, unless an increase in the amortization period will cause it to exceed 20 years. If an increase in the amortization period as a result of actuarial losses for a valuation year would exceed 20 years, the accrued liability contribution shall be computed for the valuation year using a 20-year amortization period.

Certain portions of the normal cost and unfunded actuarial liabilities attributable to Local employers are payable by the State and/or over different periods in accordance with the NJ State Statutes.

To the extent that the amortization period remains an open period in future years and depending upon the specific circumstances, it should be noted that in the absence of emerging actuarial gains or contributions made in excess of the actuarially determined contribution, any existing unfunded accrued liability may not be fully amortized in the future.

The non-contributory group life insurance benefit is funded separately through a term cost.

APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

2. Asset Valuation Method

For the purposes of determining contribution rates, an actuarial value of assets is used that dampens the volatility in the market value of assets, resulting in a smoother pattern of contributions.

The actuarial value of assets is adjusted to reflect actual contributions, benefit payments and administrative expenses, and an assumed rate of return on the previous year's assets and current year's cash flow at the prior year's actuarial valuation interest rate, with a further adjustment to reflect 20% of the difference between the resulting value and the actual market value of Plan assets.

3. Contributions

Chapter 83, P.L. 2016 requires the State to make pension contributions on a quarterly basis: at least 25% by September 30, at least 50% by December 31, at least 75% by March 31, and at least 100% by June 30. As such, contributions are assumed to be made on a quarterly basis with the first contribution 15 months after the associated valuation date.

Local employers' contributions are expected to be paid on April 1st, 21 months after the associated valuation date.

Chapter 98, P.L. 2017, the Lottery Enterprise Contribution Act, allows the PERS to receive 21.02% of the proceeds of the Lottery Enterprise, based upon their members' past or present employment in schools and institutions in the State for a term of 30 years. Revenues from Chapter 98, P.L. 2017, the Lottery Enterprise Contribution Act, are assumed to be contributed to the trust on a monthly basis. The State's pension contribution is reduced by the product of the allocable percentage for the PERS, the adjustment percentage, and the special asset value.

Contributions payable in the fiscal year starting on the valuation date are included in the actuarial value of assets as receivable contributions, discounted by the applicable valuation interest rate.

Legislation has provided for additional benefits and/or funding requirements which are included in this valuation and are described as follows.

Early Retirement Incentive Programs

Local employers which elected to participate in various early retirement incentive programs authorized by NJ Statute make contributions to cover the cost of these programs over amortization periods elected by the employer to the extent permitted by NJ Statute.

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Chapter 133, P.L. 2001

Chapter 133, P.L. 2001 increased the accrual rate from 1/60 to 1/55. In addition, it lowered the age required for a veteran benefit equal to 1/55 of highest 12-month Compensation for each Year of Service from 60 to 55.

Chapter 133, P.L. 2001 also established the Benefit Enhancement Fund (BEF) to fund the additional annual employer normal contribution due to the Statute's increased benefits. (Chapter 353, P.L. 2001 extended this coverage to this Statute's additional annual employer normal contribution.) If the assets in the BEF are insufficient to cover the normal contribution for the increased benefits for a valuation period, the State will pay such amount for both the State and Local employers.

Chapter 259, P.L. 2001

Chapter 259, P.L. 2001 established the Workers' Compensation Judges Part of the System with special retirement benefits for Workers' Compensation Judges. See Appendix C for details.

In accordance with the provisions of Chapter 259, P.L. 2001, the additional contributions for these special retirement benefits will be funded by transfers from the Second Injury Fund.

Chapter 366, P.L. 2001

Chapter 366, P.L. 2001 established the Prosecutors Part of the System with special retirement benefits for Prosecutors. See Appendix C for details.

Chapter 366, P.L. 2001 also requires the State be liable for any increase in pension costs to a County that results from the enrollment of Prosecutors in the Prosecutors Part. Any increase in the unfunded actuarial liability arising from the benefits established for the Prosecutors Part are to be amortized over a closed 30-year period.

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Chapter 19, P.L. 2009

Chapter 19, P.L. 2009 provided that the State Treasurer will reduce for Local employers the normal and accrued liability contributions to 50 percent of the amount certified for fiscal year 2009. The remaining 50% of the contribution (unfunded liability) will be paid by the Local employers in level annual payments over a period of 15 years with the first payment due in the fiscal year ending June 30, 2012. The unfunded liability will be adjusted by the rate of return on the actuarial value of assets. The legislation also provided that a Local employer may pay 100 percent of the contribution for the fiscal year 2009. Such an employer will be credited with the full payment and any such amounts will not be included in their unfunded liability. In addition, certain Local employers who were eligible to defer 50% of their fiscal year 2009 pension contributions but instead paid 100% of the fiscal year 2009 pension contributions were permitted to defer 50% of their 2010 fiscal year pension contributions. The unfunded liability will be paid by these Local employers over a period of 15 years with the first payment due in the fiscal year ending June 30, 2012. The unfunded liability will be adjusted by the rate of return on the actuarial value of assets.

Chapter 140, P.L. 2021

Chapter 140, P.L. 2021 reopened the Worker's Compensation Judges (WCJ) Part of PERS and transferred WCJs from the Defined Contribution Retirement Program (DCRP) and the regular part of PERS into the WCJ Part of PERS.

The corresponding increase in the unfunded actuarial liability is amortized over a closed 20-year period. The additional unfunded actuarial liability contribution and the increased normal cost will be paid by transfers from the Second Injury Fund (SIF).

4. Valuation Software

Cheiron utilizes ProVal, an actuarial valuation software leased from Winklevoss Technologies (WinTech) to calculate liabilities and project benefit payments. We have relied on WinTech as the developer of ProVal. We have reviewed ProVal and have a basic understanding of it and have used ProVal in accordance with its original intended purpose. We have not identified any material inconsistencies in assumptions or output of ProVal that would affect this actuarial valuation.

5. Changes in Methods since Last Valuation

None.

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APPENDIX C – SUMMARY OF PLAN PROVISIONS

This summary of Plan provisions provides an overview of the major provisions of the PERS used in the actuarial valuation. It is not intended to replace the more precise language of the NJ State Statutes, Title 43, Chapter 15A, and if there is any difference between the description of the Plan herein and the actual language in the NJ State Statutes, the NJ State Statutes will govern.

1. Eligibility for Membership

Employees of the State or any county, municipality, school district, or public agency employed on a regular basis in a position covered by Social Security and not required to be a member of any other State or local government retirement system. Certain exceptions apply.

- a) Class B (or Tier 1) Member: Any member hired prior to July 1, 2007.
- b) Class D (or Tier 2) Member: Any member hired on or after July 1, 2007 and before November 2, 2008.
- c) Class E (or Tier 3) Member: Any member hired after November 1, 2008 and before May 22, 2010.
- d) Class F (or Tier 4) Member: Any member hired after May 21, 2010 and before June 28, 2011.
- e) Class G (or Tier 5) Member: Any member hired on or after June 28, 2011.

The hiring, rehiring, retention, and benefits of certain public employees during the COVID-19 Public Health Emergency was modified under Executive Order No. 103 of 2020, as extended.

2. Plan Year

The 12-month period beginning on July 1 and ending on June 30.

3. Years of Service

A year of service for each year an employee is a Member of the Retirement System plus service, if any, covered by a prior service liability. Tier 4 and Tier 5 Members must be scheduled to work at least 35 hours per week for the State or 32 hours per week for a Local employer. Tier 3, 4 and 5 Members must have an annual salary of \$7,500 (indexed for inflation) and other members must have an annual salary of \$1,500.

4. Compensation

Base salary upon which contributions by a Member to the Annuity Savings Fund were based. Chapter 113, P.L. 1997 provides that Compensation cannot exceed the compensation limitation of Section 401(a)(17) of the Internal Revenue Code. Chapter 103, P.L. 2007 provides that for a Tier 2, 3, 4 or 5 Member, Compensation cannot exceed the annual maximum wage contribution base for Social Security, pursuant to the Federal Insurance Contribution Act.

APPENDIX C – SUMMARY OF PLAN PROVISIONS

5. Final Compensation

The average annual compensation upon which contributions by a Member are made for the three consecutive years of service immediately preceding retirement, or the highest three fiscal years of service, if greater. Chapter 1, P. L. 2010 provides that for a Tier 4 or Tier 5 Member, Final Compensation is the average annual compensation upon which contributions by a Member are made for the five consecutive years of service immediately preceding retirement, or the highest five fiscal years of service, if greater.

6. Final Year Compensation

The compensation upon which contributions by a Member to the Annuity Savings Fund are based in the last year of service.

7. Accumulated Deductions

The sum of all amounts deducted from the compensation of a Member or contributed by the Member or on the Member's behalf without interest.

8. Interest Credits on Accumulated Deductions

Members receive interest credits while contributing and for the first two years of inactivity. The rate depends on the type of benefit. Prior to July 1, 2018, members received interest credits for the entire period of inactivity until retirement or death.

9. Member Contributions

Each Member contributes a percentage of Compensation. Effective October 1, 2011, Chapter 78, P.L. 2011 set the member contribution rate at 6.5% and increased it by 1/7th of 1% each July thereafter until it attained an ultimate rate of 7.5% on July 1, 2018.

For members who are eligible to retire under the Prosecutors Part as provided by Chapter 366, P.L. 2001, Chapter 78, P.L. 2011 set the member contribution rate at 10.0%, effective October 1, 2011.

10. Benefits

- a) **Service Retirement:** For a Tier 1 or Tier 2 Member, age 60. For a Tier 3 or Tier 4 Member, age 62. For a Tier 5 Member, age 65.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of:

- (1) For a Tier 1, 2 or 3 Member, 1/55 of Final Compensation for each Year of Service.
- (2) For a Tier 4 or 5 Member, 1/60 of Final Compensation for each Year of Service.

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- b) **Early Retirement:** Prior to eligibility for Service Retirement. For a Tier 1, 2, 3 or 4 Member, 25 Years of Service. For a Tier 5 Member, 30 Years of Service.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of:

- (1) For a Tier 1 Member, the Service Retirement benefit reduced by 1/4 of one percent for each month the retirement date precedes age 55.
- (2) For a Tier 2 Member, the Service Retirement benefit reduced by 1/12 of one percent for each month the retirement date precedes age 60 through age 55 and by 1/4 of one percent for each month the retirement date precedes age 55.
- (3) For a Tier 3 or 4 Member, the Service Retirement benefit reduced by 1/12 of one percent for each month the retirement date precedes age 62 through age 55 and by 1/4 of one percent for each month the retirement date precedes age 55.
- (4) For a Tier 5 Member, the Service Retirement benefit reduced by 1/4 of one percent for each month the retirement date precedes age 65.

- c) **Veteran Retirement:** Age 55 with 25 Years of Service or Age 60 with 20 Years of Service for a qualified military veteran who retires directly from active service.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of the greater of:

- (1) 54.5% of highest 12-month Compensation, or
- (2) For a member who is at least age 55 with 35 Years of Service, 1/55 of highest 12-month Compensation for each Year of Service.

Veterans may receive a Service Retirement benefit if greater.

- d) **Deferred Retirement:** Termination of service prior to eligibility for Service Retirement with 10 Years of Service.

Benefit is either:

- (1) A refund of Accumulated Deductions plus, if the member has completed three years of service, interest accumulated at 2.0% per annum; or
- (2) A deferred life annuity, commencing at age 60 for a Tier 1 or Tier 2 Member, age 62 for a Tier 3 or Tier 4 Member or age 65 for a Tier 5 Member, comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of the Service Retirement benefit based on Final Compensation and Years of Service at date of termination.

For Members who die during the deferral period, the benefit is a return of Accumulated Deductions with credited interest.

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- e) **Non-Vested Termination:** Termination of service prior to eligibility for Service Retirement and less than 10 Years of Service.

Benefit is a refund of Accumulated Deductions plus, if the member has completed three years of service, interest accumulated at 2.0% per annum.

f) **Death Benefits**

- (1) **Ordinary Death Before Retirement:** Death of an active contributing Member. Benefit is equal to:

- a. Lump sum payment equal to 150% of Final Year Compensation, also known as the non-contributory group life insurance benefit, plus
- b. Accumulated Deductions with credited interest.

- (2) **Accidental Death Before Retirement:** Death of an active Member resulting from injuries received from an accident during performance of duty and not a result of willful negligence. Benefit is equal to:

- a. Lump sum payment equal to 150% of Final Year Compensation, also known as the non-contributory group life insurance benefit, plus
- b. Spouse life annuity of 50% of Final Year Compensation payable until spouse's death or remarriage. If there is no surviving spouse or upon death or remarriage, a total of 20% (35%, 50%) of Final Year Compensation payable to one (two, three or more) dependent child(ren). If there is no surviving spouse or dependent child(ren), 25% (40%) of Final Year Compensation to one (two) dependent parent(s). If there is no surviving spouse, dependent child(ren) or parent(s), the benefit is a refund of Accumulated Deductions with credited interest.

- (3) **Death After Retirement:** Death of a retired Member. Benefit is equal to:

- a. Lump sum payment equal to 3/16 of Final Year Compensation for a Member retired under Service, Early, Veteran or Deferred Retirement with 10 Years of Service. For a Member receiving a Disability benefit, lump sum payment of 150% of Final Year Compensation if death occurs prior to age 60 and 3/16 of Final Compensation if death occurs after age 60. This benefit is also known as the non-contributory group life insurance benefit, plus
- b. Any survivor benefit due under the Member's optional form of payment election. Previously granted COLAs also apply to life annuities.

Members are also eligible for a voluntary, employee-paid life insurance policy, known as the contributory group life insurance policy. This benefit is not paid through the System and is not considered for valuation purposes.

APPENDIX C – SUMMARY OF PLAN PROVISIONS

g) **Disability Retirement**

- (1) **Ordinary Disability Retirement:** 10 years of service and totally and permanently incapacitated from the performance of normal or assigned duties. Only available to Tier 1, 2 and 3 Members.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of:

- a. 1.64% of Final Compensation for each Year of Service; or
- b. 43.6% of Final Compensation.

- (2) **Accidental Disability Retirement:** Total and permanent incapacitation as a direct result of a traumatic event occurring during and as a result of the performance of regular or assigned duties. Under certain conditions for law enforcement officers or emergency medical technicians, regular or assigned duties may include the World Trade Center (WTC) rescue, recovery, or cleanup operations between September 11, 2001 and October 11, 2001. For such members who participated in the WTC rescue, recovery, or cleanup operations, the total and permanent disability may occur after retirement on a service retirement or an ordinary disability retirement. Only available to Tier 1, 2 and 3 Members.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of 72.7% of Compensation at the date of injury.

The pension portion of the benefit will be offset for any periodic Workers' Compensation benefits.

Tier 4 and Tier 5 Members are eligible for long-term disability coverage. This benefit is not paid through the System and is not considered for valuation purposes. Both Member and employer contributions to the System continue while on long-term disability, with the policy covering the Member portion. The long-term disability benefit equals 60% of Final Year Compensation and may be offset for other periodic benefits, such as Workers' Compensation, short-term disability or Social Security. The long-term disability benefit may continue through the earlier of age 70 or commencement of a retirement benefit under the System.

APPENDIX C – SUMMARY OF PLAN PROVISIONS

11. Benefits for Special Employee Groups

Certain members qualify for enrollment into special employee groups. Such members receive the greater of the special benefits described below or the regular PERS benefit described above. For benefit types not explicitly mentioned, the regular PERS benefit applies.

a) **Law Enforcement Officers (LEOs):**

Members employed in eligible job titles as well as individuals who do not meet the age or medical requirements for entry into the Police and Firemen's Retirement System (PFRS).

(1) **Service and Special Retirement**

Mandatory retirement at age 65. Veterans with less than 20 Years of Service at age 65 must retire upon attainment of 20 Years of Service or age 70, whichever is earlier. Voluntary retirement prior to those ages.

a. **Service Retirement:** Age 55 after 20 Years of LEO Service.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of 2% of Final Compensation for each Year of LEO Service up to 25 years plus 1% of Final Compensation for each Year of LEO Service over 25 years.

The Member is also eligible for a regular PERS benefit based on any non-LEO service.

b. **Special Retirement:** 25 Years of LEO Service.

Benefit is the Service Retirement benefit plus 5% of Final Compensation with a maximum of 70% of Final Compensation.

(2) **Ordinary Disability Retirement:** 5 Years of LEO Service.

Benefit is the regular PERS Ordinary Disability benefit.

(3) **Death Benefits:**

Benefit is the regular PERS Death benefit except, upon Accidental Disability Retirement, the minimum lump sum payment is \$5,000.

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b) Legislative Retirement System (LRS):

Members of the State Legislature. Chapter 92, P.L. 2007 closed LRS to new members enrolled on or after July 1, 2007.

(1) Special Legislative Retirement: Age 60.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of 3% of Final Compensation for each Year of Legislative Service with a maximum of two-thirds of Final Compensation.

The Member is also eligible for a regular PERS benefit based on any non-legislative service.

(2) Deferred Retirement: Termination of service prior to eligibility for Service or Special Legislative Retirement with 8 Years of Legislative Service.

Benefit is either:

- a. A refund of Accumulated Deductions plus, if the Member has completed three years of service, interest accumulated at 2.0% per annum; or
- b. A deferred life annuity, commencing at age 60, comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of the Service or Special Legislative Retirement benefit based on Final Compensation and Years of Service at date of termination.

c) Prosecutors Part (Chapter 366, P.L. 2001 and Chapter 226, P.L. 2021):

Covers prosecutors as well as members employed in certain other related job titles. Chapter 1, P.L. 2010 closed the Prosecutors Part to new members enrolled on or after May 22, 2010.

Chapter 226, P.L. 2021 reopened the Prosecutors Part of PERS and made membership in the Prosecutors Part of PERS mandatory for prosecutors.

(1) Service and Special Retirement

Mandatory retirement at age 70. Voluntary retirement prior to that age.

In addition to the benefits described below, the member is eligible for a regular PERS benefit based on any non-Prosecutors Part service.

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- a. Service Retirement: For a Prosecutors Part Member enrolled as of January 7, 2002, age 55 or 20 Years of Prosecutors Part Service. For a Prosecutors Part Member enrolled after January 7, 2002, age 55.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of the greater of:

- i. 2% of Final Year Compensation for each Year of Prosecutors Part Service up to 30 years plus 1% of Final Year Compensation for each Year of Prosecutors Part Service over 30 years.
- ii. 50% of Final Year Compensation for Prosecutors Part Members with 20 or more Years of Prosecutors Part Service.
- iii. 1/60 of Final Year Compensation for each Year of Prosecutors Part Service.

- b. Special Retirement: 25 Years of Prosecutors Part Service.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of 65% of Final Year Compensation plus 1% of Final Year Compensation for each Year of Prosecutors Part Service in excess of 25 years with a maximum of 70% of Final Compensation.

- (2) Deferred Retirement: Termination of service prior to eligibility for Service or Special Retirement with 10 Years of Prosecutors Part Service.

Benefit is either:

- a. A refund of Accumulated Deductions plus, if the Member has completed three years of service, interest accumulated at 2.0% per annum; or
- b. A deferred life annuity, commencing at age 55, comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of 2% of Final Year Compensation for each Year of Prosecutors Part Service.

- (3) Death Benefits:

Benefit is the regular PERS Death benefit except, upon Service, Special or Deferred Prosecutors Part Retirement with 10 Years of Prosecutors Part Service, the lump sum payment equals 50% of Final Year Compensation.

APPENDIX C – SUMMARY OF PLAN PROVISIONS

d) **Workers Compensation Judges Part (WCJ) (Chapter 259, P.L. 2001 and Chapter 140, P.L. 2021):**

Members employed in an eligible job title by the Division of Workers' Compensation. Chapter 92, P.L. 2007 closed the Workers Compensation Judges Part to new members enrolled on or after July 1, 2007.

Chapter 140, P.L. 2021 reopened the Worker's Compensation Judges (WCJ) Part of PERS and transferred WCJs from the Defined Contribution Retirement Program (DCRP) and the regular part of PERS into the WCJ Part of PERS.

(1) Service Retirement:

Mandatory retirement age 70. Voluntary retirement prior to that age.

- a. Age 70 and 10 Years of WCJ Service; or
Age 65 and 15 Years of WCJ Service; or
Age 60 and 20 Years of WCJ Service.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of 75% of contractual Compensation at the date of retirement.

- b. Age 65, 5 consecutive Years of WCJ Service and 15 Years of Aggregate PERS Service; or
Age 60, 5 consecutive Years of WCJ Service and 20 Years of Aggregate PERS Service.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of 50% of contractual Compensation at the date of retirement.

- c. Age 60, 5 consecutive Years of WCJ Service and 15 Years of Aggregate PERS Service.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of 2% of contractual Compensation at the date of retirement for each Year of Aggregate PERS Service up to 25 years plus 1% of contractual Compensation at the date of retirement for each Year of Aggregate PERS Service over 25 years.

APPENDIX C – SUMMARY OF PLAN PROVISIONS

d. Age 60.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of 2% of contractual Compensation at the date of retirement for each Year of WCJ Service up to 25 years plus 1% of contractual Compensation at the date of retirement for each Year of Aggregate PERS Service over 25 years.

- (2) Early Retirement: Prior to eligibility for Service Retirement and 5 consecutive Years of WCJ Service and 25 Years of Aggregate PERS Service.

Benefit is an annual retirement allowance comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of 2% of contractual Compensation at the date of retirement for each Year of Aggregate PERS Service up to 25 years plus 1% of contractual Compensation at the date of retirement for each Year of Aggregate PERS Service over 25 years, actuarially reduced for commencement prior to age 60.

- (3) Deferred Retirement: Termination of service prior to eligibility for Service Retirement with 5 consecutive Years of WCJ Service and 10 Years of Aggregate PERS Service.

Benefit is either:

- a. A refund of Accumulated Deductions plus, if the Member has completed three years of service, interest accumulated at 2.0% per annum; or
- b. A deferred life annuity, commencing at age 60, comprised of a member annuity plus an employer pension which together will provide a total retirement allowance of 2% of contractual Compensation at the date of retirement for each Year of Aggregate PERS Service up to 25 years plus 1% of contractual Compensation at the date of retirement for each Year of Aggregate PERS Service over 25 years.

- (4) Death Benefits

- a. Before Retirement: Death of an active WCJ Member. Benefit is equal to:
 - i. Lump sum equal to 150% of contractual Compensation at the date of death, plus
 - ii. Spousal life annuity of 25% of contractual Compensation at the date of death payable until spouse's remarriage plus 10% (15%) to one (two or more) dependent child(ren). If there is no surviving spouse, or upon death or remarriage, a total of 15% (20%, 30%) of contractual Compensation at the date of death payable to one (two, three or more) dependent child(ren). If there is no surviving spouse or dependent child(ren), 20% (30%) of contractual Compensation at the date of death to one (two) dependent parent(s). If there is no surviving spouse, dependent child(ren) or parent(s), the benefit is a refund of Accumulated Deductions with interest.

APPENDIX C – SUMMARY OF PLAN PROVISIONS

- b. After Retirement: Death of a retired WCJ Member. Benefit is equal to:
- i. Lump sum equal to 25% of contractual Compensation at the date of death for a Member retired under Service or Early WCJ Retirement with 10 Years of Aggregate PERS Service. For a Member receiving a Disability benefit, lump sum payment of 150% of contractual Compensation at the date of death if death occurs prior to age 60 and 25% of contractual Compensation at the date of death if death occurs after age 60, plus
 - ii. Any survivor benefit due under the Member's optional form of payment election. Previously granted COLAs also apply to life annuities.

12. Optional Forms of Payment

The member may elect the following forms of payment.

- a) Maximum Option: Single life annuity with a return of the balance of the Accumulated Deductions with credited interest.
- b) Option 1: Single life annuity with a return of the balance of the initial reserve.
- c) Option 2: 100% joint and survivor annuity.
- d) Option 3: 50% joint and survivor annuity.
- e) Option 4: Other percentage joint and survivor annuity.
- f) Option A: 100% pop-up joint and survivor annuity.
- g) Option B: 75% pop-up joint and survivor annuity.
- h) Option C: 50% pop-up joint and survivor annuity.
- i) Option D: 25% pop-up joint and survivor annuity.

13. Cost-of-Living Adjustments

Also known as Pension Adjustments. Provided annually to retirees and survivors after 24 months of retirement prior to July 1, 2011. Chapter 78, P.L. 2011 eliminated future adjustments effective July 1, 2011. Adjustments may be reinstated in the future subject to certain conditions outlined in Chapter 78, P.L. 2011.

14. Changes in Plan Provisions since Last Valuation

Chapter 249, P.L. 2023 extends provisions of Chapter 498, P.L. 2021 for calendar years 2023 or 2024 to allow for a temporary return to employment by a former employee of the Legislature after retirement from PERS.

**THE PUBLIC EMPLOYEES' RETIREMENT SYSTEM OF NEW JERSEY
GASB 67 REPORTING FOR JUNE 30, 2024 MEASUREMENT DATE**

APPENDIX D – DETERMINATION OF DISCOUNT RATE

Table 1 - Projection of the Pension Plan's Fiduciary Net Position
(In Thousands)
Projections Commence June 30, 2024

Year	Projected Beginning Fiduciary Net Position	Projected Member Contributions	Projected State Contributions	Projected State- paid Local Contributions	Projected Local Employer Contributions	Projected Lottery Contributions	Projected Benefit Payments	Projected Administrative Expenses	Projected Investment Earnings	Projected Ending Fiduciary Net Position (j) = (a) + (b) + (c) + (d) + (e) + (f) - (g) - (h) + (i)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
1	\$ 36,346,996	\$ 870,849	\$ 1,687,091	\$ 59,813	\$ 1,371,516	\$ 236,671	\$ 5,265,493	\$ 35,283	\$ 2,468,894	\$ 37,741,054
2	37,741,054	835,942	1,689,195	57,629	1,338,798	238,615	5,414,046	36,307	2,559,643	39,010,521
3	39,010,521	802,419	1,693,837	55,309	1,325,855	241,005	5,556,276	37,286	2,642,352	40,177,734
4	40,177,734	769,703	1,696,377	52,879	1,321,576	243,109	5,691,191	38,219	2,718,265	41,250,234
5	41,250,234	737,649	1,697,508	50,348	1,317,965	245,498	5,817,647	39,091	2,787,846	42,230,309
6	42,230,309	705,903	1,697,164	47,796	1,315,070	250,163	5,935,588	39,900	2,851,315	43,122,232
7	43,122,232	674,480	1,694,876	45,260	1,312,860	252,668	6,047,483	40,661	2,908,721	43,922,953
8	43,922,953	643,545	1,690,082	42,711	1,306,582	255,197	6,146,948	41,336	2,960,057	44,632,842
9	44,632,842	612,917	1,684,878	40,166	1,299,984	257,752	6,235,828	41,936	3,005,396	45,256,172
10	45,256,172	582,841	1,679,427	37,628	1,291,850	260,332	6,317,898	42,488	3,044,900	45,792,763
11	45,792,763	553,757	1,670,146	18,884	1,284,418	262,938	6,386,751	42,945	3,078,318	46,231,528
12	46,231,528	525,978	1,663,894	16,558	1,278,218	265,570	6,438,118	43,278	3,106,064	46,606,413
13	46,606,413	499,398	1,657,832	14,460	1,272,833	268,229	6,472,373	43,492	3,129,998	46,933,298
14	46,933,298	474,198	1,651,947	12,627	1,268,185	270,914	6,489,665	43,587	3,151,232	47,229,150
15	47,229,150	450,277	1,646,588	11,009	1,264,435	273,626	6,490,980	43,574	3,170,925	47,511,456
16	47,511,456	427,688	1,641,910	9,565	1,261,382	276,365	6,474,629	43,444	3,190,363	47,800,657
17	47,800,657	406,473	1,638,123	8,283	1,258,953	279,131	6,441,986	43,205	3,210,933	48,117,363
18	48,117,363	385,996	1,635,225	7,139	1,257,186	281,925	6,396,841	42,881	3,233,926	48,479,038
19	48,479,038	365,032	1,632,269	6,130	1,255,740	284,747	6,346,202	42,518	3,260,247	48,894,483
20	48,894,483	343,507	1,629,386	5,239	1,253,930	287,598	6,291,349	42,126	3,290,459	49,371,126
21	49,371,126	321,313	1,626,015	4,458	1,251,588	290,476	6,233,184	41,713	3,325,027	49,915,107
22	49,915,107	298,537	1,622,137	3,774	1,248,336	293,384	6,171,831	41,279	3,364,374	50,532,537
23	50,532,537	275,116	1,617,709	3,178	1,244,127	296,320	6,108,716	40,833	3,408,873	51,228,311
24	51,228,311	250,042	1,742,577	2,673	1,238,958	0	6,052,028	40,437	3,451,611	51,821,707
25	51,821,707	224,676	1,736,177	2,185	1,231,573	0	5,992,465	40,024	3,494,032	52,477,861
26	52,477,861	200,717	1,689,142	1,731	1,222,847	0	5,921,435	39,529	3,514,338	52,145,672
27	52,145,672	177,656	1,535,572	1,387	1,214,454	0	5,843,464	38,990	3,478,976	51,289,263
28	51,289,263	154,856	1,222,248	1,108	1,205,610	0	5,762,228	38,434	3,420,084	50,392,508
29	50,392,508	131,017	1,129,959	881	1,195,774	0	5,686,567	37,919	3,358,693	49,467,345
30	49,467,345	108,393	1,033,381	693	900,228	0	5,604,120	37,362	3,290,709	48,229,266
31	48,229,266	89,316	93,652	536	204,617	0	5,502,380	36,676	3,194,783	46,273,113
32	46,273,113	73,129	85,209	412	156,615	0	5,280,863	35,156	3,063,923	44,336,383
33	44,336,383	59,392	77,847	315	143,853	0	5,148,446	34,267	2,932,050	42,367,127
34	42,367,127	47,789	71,212	238	133,123	0	5,004,339	33,302	2,798,432	40,380,280
35	40,380,280	38,088	65,557	177	123,860	0	4,849,259	32,263	2,664,078	38,390,517
36	38,390,517	30,040	60,629	132	115,420	0	4,685,151	31,165	2,529,924	36,410,346
37	36,410,346	23,431	56,359	97	107,698	0	4,514,046	30,020	2,396,762	34,450,627
38	34,450,627	18,072	52,684	70	100,653	0	4,337,669	28,841	2,265,286	32,520,881
39	32,520,881	13,765	49,554	50	94,233	0	4,156,880	27,632	2,136,121	30,630,091
40	30,630,091	10,387	46,871	36	88,413	0	3,972,829	26,403	2,009,850	28,786,416
41	28,786,416	7,734	44,582	25	83,183	0	3,786,958	25,161	1,886,986	26,996,809
42	26,996,809	5,708	42,601	18	78,454	0	3,599,996	23,912	1,767,983	25,267,666
43	25,267,666	4,154	40,874	13	74,202	0	3,413,258	22,664	1,653,236	23,604,224
44	23,604,224	2,972	39,332	9	70,342	0	3,228,072	21,427	1,543,058	22,010,439
45	22,010,439	2,103	37,919	7	66,828	0	3,044,902	20,203	1,437,707	20,489,897
46	20,489,897	1,463	36,609	5	63,628	0	2,864,462	18,999	1,337,404	19,045,546
47	19,045,546	992	35,356	4	60,682	0	2,687,328	17,817	1,242,330	17,679,764
48	17,679,764	646	34,124	3	57,946	0	2,514,018	16,662	1,152,633	16,394,436
49	16,394,436	405	32,890	2	55,382	0	2,344,718	15,534	1,068,434	15,191,297
50	15,191,297	238	31,652	1	52,961	0	2,179,854	14,436	989,839	14,071,699
51	14,071,699	130	30,396	1	50,648	0	2,019,665	13,370	916,934	13,036,773
52	13,036,773	65	29,112	0	48,432	0	1,864,458	12,338	849,784	12,087,370
53	12,087,370	32	27,795	0	46,287	0	1,714,517	11,340	788,440	11,224,068
54	11,224,068	13	26,448	0	44,199	0	1,570,263	10,381	732,926	10,447,009
55	10,447,009	3	25,067	0	42,137	0	1,431,957	9,461	683,243	9,756,041
56	9,756,041	0	23,659	0	40,091	0	1,299,834	8,583	639,371	9,150,746
57	9,150,746	0	22,230	0	38,049	0	1,174,120	7,747	601,273	8,630,429
58	8,630,429	0	20,783	0	36,000	0	1,055,051	6,956	568,893	8,194,098
59	8,194,098	0	19,329	0	33,937	0	942,800	6,210	542,155	7,840,509
60	7,840,509	0	17,875	0	31,857	0	837,504	5,511	520,968	7,568,193

**THE PUBLIC EMPLOYEES' RETIREMENT SYSTEM OF NEW JERSEY
GASB 67 REPORTING FOR JUNE 30, 2024 MEASUREMENT DATE**

APPENDIX D – DETERMINATION OF DISCOUNT RATE

Table 1 - Projection of the Pension Plan's Fiduciary Net Position
(In Thousands)
Projections Commence June 30, 2024

Year	Projected Beginning Fiduciary Net Position	Projected Member Contributions	Projected State Contributions	Projected State- paid Local Contributions	Projected Local Employer Contributions	Projected Lottery Contributions	Projected Benefit Payments	Projected Administrative Expenses	Projected Investment Earnings	Projected Ending Fiduciary Net Position
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j) = (a) + (b) + (c) + (d) + (e) + (f) - (g) - (h) + (i)
61	\$ 7,568,193	\$ 0	\$ 16,430	\$ 0	\$ 29,761	\$ 0	\$ 739,266	\$ 4,859	\$ 505,225	\$ 7,375,484
62	7,375,484	0	15,004	0	27,655	0	648,154	4,255	494,809	7,260,542
63	7,260,542	0	13,605	0	25,545	0	564,196	3,698	489,588	7,221,385
64	7,221,385	0	12,242	0	23,443	0	487,351	3,190	489,428	7,255,958
65	7,255,958	0	10,926	0	21,361	0	417,535	2,728	494,187	7,362,169
66	7,362,169	0	9,664	0	19,313	0	354,614	2,313	503,724	7,537,944
67	7,537,944	0	8,467	0	17,316	0	298,392	1,942	517,902	7,781,293
68	7,781,293	0	7,341	0	15,385	0	248,614	1,615	536,590	8,090,380
69	8,090,380	0	6,294	0	13,537	0	204,976	1,329	559,671	8,463,577
70	8,463,577	0	5,332	0	11,789	0	167,129	1,081	587,043	8,899,531
71	8,899,531	0	4,460	0	10,153	0	134,675	869	618,627	9,397,226
72	9,397,226	0	3,681	0	8,642	0	107,180	690	654,366	9,956,044
73	9,956,044	0	2,994	0	7,265	0	84,182	541	694,233	10,575,813
74	10,575,813	0	2,399	0	6,027	0	65,205	418	738,233	11,256,848
75	11,256,848	0	1,890	0	4,932	0	49,768	318	786,404	11,999,989
76	11,999,989	0	1,463	0	3,978	0	37,400	238	838,821	12,806,613
77	12,806,613	0	1,112	0	3,159	0	27,651	176	895,597	13,678,653
78	13,678,653	0	828	0	2,468	0	20,098	127	956,880	14,618,603
79	14,618,603	0	604	0	1,895	0	14,350	91	1,022,858	15,629,518
80	15,629,518	0	431	0	1,428	0	10,060	63	1,093,757	16,715,011
81	16,715,011	0	300	0	1,056	0	6,921	44	1,169,839	17,879,242
82	17,879,242	0	205	0	765	0	4,671	29	1,251,405	19,126,917
83	19,126,917	0	136	0	543	0	3,093	19	1,338,791	20,463,275
84	20,463,275	0	88	0	377	0	2,010	13	1,432,369	21,894,087
85	21,894,087	0	56	0	255	0	1,283	8	1,532,548	23,425,655
86	23,425,655	0	35	0	169	0	806	5	1,639,772	25,064,821
87	25,064,821	0	21	0	109	0	499	3	1,754,523	26,818,972
88	26,818,972	0	12	0	69	0	306	2	1,877,319	28,696,065
89	28,696,065	0	7	0	43	0	186	1	2,008,719	30,704,646
90	30,704,646	0	4	0	26	0	113	1	2,149,322	32,853,884
91	32,853,884	0	2	0	15	0	69	0	2,299,770	35,153,602
92	35,153,602	0	1	0	9	0	43	0	2,460,751	37,614,320
93	37,614,320	0	1	0	5	0	27	0	2,633,002	40,247,301
94	40,247,301	0	0	0	3	0	17	0	2,817,311	43,064,598
95	43,064,598	0	0	0	2	0	11	0	3,014,522	46,079,110
96	46,079,110	0	0	0	1	0	7	0	3,225,538	49,304,642
97	49,304,642	0	0	0	1	0	4	0	3,451,325	52,755,963
98	52,755,963	0	0	0	0	0	3	0	3,692,917	56,448,878
99	56,448,878	0	0	0	0	0	2	0	3,951,421	60,400,298
100	60,400,298	0	0	0	0	0	1	0	4,228,021	64,628,317
101	64,628,317	0	0	0	0	0	1	0	4,523,982	69,152,299
102	69,152,299	0	0	0	0	0	0	0	4,840,661	73,992,959
103	73,992,959	0	0	0	0	0	0	0	5,179,507	79,172,466
104	79,172,466	0	0	0	0	0	0	0	5,542,073	84,714,539
105	84,714,539	0	0	0	0	0	0	0	5,930,018	90,644,556
106	90,644,556	0	0	0	0	0	0	0	6,345,119	96,989,675
107	96,989,675	0	0	0	0	0	0	0	6,789,277	103,778,952
108	103,778,952	0	0	0	0	0	0	0	7,264,527	111,043,479
109	111,043,479	0	0	0	0	0	0	0	7,773,044	118,816,522
110	118,816,522	0	0	0	0	0	0	0	8,317,157	127,133,679
111	127,133,679	0	0	0	0	0	0	0	8,899,358	136,033,036
112	136,033,036	0	0	0	0	0	0	0	9,522,313	145,555,349
113	145,555,349	0	0	0	0	0	0	0	10,188,874	155,744,223
114	155,744,223	0	0	0	0	0	0	0	10,902,096	166,646,319
115	166,646,319	0	0	0	0	0	0	0	11,665,242	178,311,561

**THE PUBLIC EMPLOYEES' RETIREMENT SYSTEM OF NEW JERSEY
GASB 67 REPORTING FOR JUNE 30, 2024 MEASUREMENT DATE**

APPENDIX D – DETERMINATION OF DISCOUNT RATE

Table 2 - Actuarial Present Values of Projected Benefit Payments
(In Thousands)

Projections Commence June 30, 2024

* From Table 1 - Projection of the Pension Plan's Fiduciary Net Position, column (a)

** From Table 1 - Projection of the Pension Plan's Fiduciary Net Position, column (g)

Year	Projected Beginning Fiduciary Net Position*	Projected Benefit Payments for current Plan participants**	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	Present Value of "Funded" Benefit Payments	Present Value of "Unfunded" Benefit Payments	Present Value of Benefit Payments Using the Single Discount Rate
(a)	(b)	(c)	(d) = (c) if (b) >= (c)	(e) = (c) - (d)	(f) = (d) / (1+7.00%)^(a) - .5]	(g) = (e) / (1+3.93%)^(a) - .5]	(h) = (c) / (1+7.00%)^(a) - .5]
1	\$ 36,346,996	\$ 5,265,493	\$ 5,265,493	\$ 0	\$ 5,090,345	\$ 0	\$ 5,090,345
2	37,741,054	5,414,046	5,414,046	0	4,891,547	0	4,891,547
3	39,010,521	5,556,276	5,556,276	0	4,691,636	0	4,691,636
4	40,177,734	5,691,191	5,691,191	0	4,491,174	0	4,491,174
5	41,250,234	5,817,647	5,817,647	0	4,290,623	0	4,290,623
6	42,230,309	5,935,588	5,935,588	0	4,091,222	0	4,091,222
7	43,122,232	6,047,483	6,047,483	0	3,895,652	0	3,895,652
8	43,922,953	6,146,948	6,146,948	0	3,700,677	0	3,700,677
9	44,632,842	6,235,828	6,235,828	0	3,508,585	0	3,508,585
10	45,256,172	6,317,898	6,317,898	0	3,322,207	0	3,322,207
11	45,792,763	6,386,751	6,386,751	0	3,138,704	0	3,138,704
12	46,231,528	6,438,118	6,438,118	0	2,956,960	0	2,956,960
13	46,606,413	6,472,373	6,472,373	0	2,778,218	0	2,778,218
14	46,933,298	6,489,665	6,489,665	0	2,603,402	0	2,603,402
15	47,229,150	6,490,980	6,490,980	0	2,433,579	0	2,433,579
16	47,511,456	6,474,629	6,474,629	0	2,268,644	0	2,268,644
17	47,800,657	6,441,986	6,441,986	0	2,109,538	0	2,109,538
18	48,117,363	6,396,841	6,396,841	0	1,957,715	0	1,957,715
19	48,479,038	6,346,202	6,346,202	0	1,815,156	0	1,815,156
20	48,894,483	6,291,349	6,291,349	0	1,681,745	0	1,681,745
21	49,371,126	6,233,184	6,233,184	0	1,557,193	0	1,557,193
22	49,915,107	6,171,831	6,171,831	0	1,440,996	0	1,440,996
23	50,532,537	6,108,716	6,108,716	0	1,332,953	0	1,332,953
24	51,228,311	6,052,028	6,052,028	0	1,234,190	0	1,234,190
25	51,821,707	5,992,465	5,992,465	0	1,142,097	0	1,142,097
26	52,477,861	5,921,435	5,921,435	0	1,054,728	0	1,054,728
27	52,145,672	5,843,464	5,843,464	0	972,748	0	972,748
28	51,289,263	5,762,228	5,762,228	0	896,472	0	896,472
29	50,392,508	5,686,567	5,686,567	0	826,823	0	826,823
30	49,467,345	5,604,120	5,604,120	0	761,528	0	761,528
31	48,229,266	5,502,380	5,502,380	0	698,788	0	698,788
32	46,273,113	5,280,863	5,280,863	0	626,781	0	626,781
33	44,336,383	5,148,446	5,148,446	0	571,088	0	571,088
34	42,367,127	5,004,339	5,004,339	0	518,788	0	518,788
35	40,380,280	4,849,259	4,849,259	0	469,824	0	469,824
36	38,390,517	4,685,151	4,685,151	0	424,228	0	424,228
37	36,410,346	4,514,046	4,514,046	0	381,995	0	381,995
38	34,450,627	4,337,669	4,337,669	0	343,056	0	343,056
39	32,520,881	4,156,880	4,156,880	0	307,250	0	307,250
40	30,630,091	3,972,829	3,972,829	0	274,436	0	274,436
41	28,786,416	3,786,958	3,786,958	0	244,482	0	244,482
42	26,996,809	3,599,996	3,599,996	0	217,208	0	217,208
43	25,267,666	3,413,258	3,413,258	0	192,468	0	192,468
44	23,604,224	3,228,072	3,228,072	0	170,117	0	170,117
45	22,010,439	3,044,902	3,044,902	0	149,967	0	149,967
46	20,489,897	2,864,462	2,864,462	0	131,850	0	131,850
47	19,045,546	2,687,328	2,687,328	0	115,605	0	115,605
48	17,679,764	2,514,018	2,514,018	0	101,074	0	101,074
49	16,394,436	2,344,718	2,344,718	0	88,100	0	88,100
50	15,191,297	2,179,854	2,179,854	0	76,547	0	76,547
51	14,071,699	2,019,665	2,019,665	0	66,282	0	66,282
52	13,036,773	1,864,458	1,864,458	0	57,186	0	57,186
53	12,087,370	1,714,517	1,714,517	0	49,147	0	49,147
54	11,224,068	1,570,263	1,570,263	0	42,067	0	42,067
55	10,447,009	1,431,957	1,431,957	0	35,852	0	35,852
56	9,756,041	1,299,834	1,299,834	0	30,415	0	30,415
57	9,150,746	1,174,120	1,174,120	0	25,676	0	25,676
58	8,630,429	1,055,051	1,055,051	0	21,563	0	21,563
59	8,194,098	942,800	942,800	0	18,008	0	18,008
60	7,840,509	837,504	837,504	0	14,950	0	14,950

**THE PUBLIC EMPLOYEES' RETIREMENT SYSTEM OF NEW JERSEY
GASB 67 REPORTING FOR JUNE 30, 2024 MEASUREMENT DATE**

APPENDIX D – DETERMINATION OF DISCOUNT RATE

Table 2 - Actuarial Present Values of Projected Benefit Payments

(In Thousands)

Projections Commence June 30, 2024

* From Table 1 - Projection of the Pension Plan's Fiduciary Net Position, column (a)

** From Table 1 - Projection of the Pension Plan's Fiduciary Net Position, column (g)

Year	Projected Beginning Fiduciary Net Position*	Projected Benefit Payments for current Plan participants**	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	Present Value of "Funded" Benefit Payments	Present Value of "Unfunded" Benefit Payments	Present Value of Benefit Payments Using the Single Discount Rate
(a)	(b)	(c)	(d) = (c) if (b) >= (c)	(e) = (c) - (d)	(f) = (d) / (1+7.00%)^[(a) - .5]	(g) = (e) / (1+3.93%)^[(a) - .5]	(h) = (c) / (1+7.00%)^[(a) - .5]
61	\$ 7,568,193	\$ 739,266	\$ 739,266	\$ 0	\$ 12,333	\$ 0	\$ 12,333
62	7,375,484	648,154	648,154	0	10,106	0	10,106
63	7,260,542	564,196	564,196	0	8,221	0	8,221
64	7,221,385	487,351	487,351	0	6,637	0	6,637
65	7,255,958	417,535	417,535	0	5,314	0	5,314
66	7,362,169	354,614	354,614	0	4,218	0	4,218
67	7,537,944	298,392	298,392	0	3,317	0	3,317
68	7,781,293	248,614	248,614	0	2,583	0	2,583
69	8,090,380	204,976	204,976	0	1,990	0	1,990
70	8,463,577	167,129	167,129	0	1,517	0	1,517
71	8,899,531	134,675	134,675	0	1,142	0	1,142
72	9,397,226	107,180	107,180	0	850	0	850
73	9,956,044	84,182	84,182	0	624	0	624
74	10,575,813	65,205	65,205	0	451	0	451
75	11,256,848	49,768	49,768	0	322	0	322
76	11,999,989	37,400	37,400	0	226	0	226
77	12,806,613	27,651	27,651	0	156	0	156
78	13,678,653	20,098	20,098	0	106	0	106
79	14,618,603	14,350	14,350	0	71	0	71
80	15,629,518	10,060	10,060	0	46	0	46
81	16,715,011	6,921	6,921	0	30	0	30
82	17,879,242	4,671	4,671	0	19	0	19
83	19,126,917	3,093	3,093	0	12	0	12
84	20,463,275	2,010	2,010	0	7	0	7
85	21,894,087	1,283	1,283	0	4	0	4
86	23,425,655	806	806	0	2	0	2
87	25,064,821	499	499	0	1	0	1
88	26,818,972	306	306	0	1	0	1
89	28,696,065	186	186	0	0	0	0
90	30,704,646	113	113	0	0	0	0
91	32,853,884	69	69	0	0	0	0
92	35,153,602	43	43	0	0	0	0
93	37,614,320	27	27	0	0	0	0
94	40,247,301	17	17	0	0	0	0
95	43,064,598	11	11	0	0	0	0
96	46,079,110	7	7	0	0	0	0
97	49,304,642	4	4	0	0	0	0
98	52,755,963	3	3	0	0	0	0
99	56,448,878	2	2	0	0	0	0
100	60,400,298	1	1	0	0	0	0
101	64,628,317	1	1	0	0	0	0
102	69,152,299	0	0	0	0	0	0
103	73,992,959	0	0	0	0	0	0
104	79,172,466	0	0	0	0	0	0
105	84,714,539	0	0	0	0	0	0
106	90,644,556	0	0	0	0	0	0
107	96,989,675	0	0	0	0	0	0
108	103,778,952	0	0	0	0	0	0
109	111,043,479	0	0	0	0	0	0
110	118,816,522	0	0	0	0	0	0
111	127,133,679	0	0	0	0	0	0
112	136,033,036	0	0	0	0	0	0
113	145,555,349	0	0	0	0	0	0
114	155,744,223	0	0	0	0	0	0
115	166,646,319	0	0	0	0	0	0
					\$ 83,462,168	\$ 0	\$ 83,462,168

APPENDIX E – GLOSSARY OF TERMS

1. Actuarially Determined Contribution

A target or recommended contribution for the reporting period, determined in conformity with Actuarial Standards of Practice based on the most recent measurement available when the contribution for the reporting period was adopted.

2. Actuarial Valuation Date

The date as of which an actuarial valuation is performed. This date may be up to 24 months prior to the measurement date and up to 30 months prior to the employer's reporting date.

3. Entry Age Actuarial Cost Method

The actuarial cost method required for GASB 67 calculations. Under this method, the actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis over the earnings of the individual between entry age and assumed exit ages. The portion of this actuarial present value allocated to a valuation year is called the Service Cost. The portion of this actuarial present value not provided for at a valuation date by the actuarial present value of future service costs is called the Total Pension Liability.

4. Measurement Date

The date as of which the Total Pension Liability and Plan Fiduciary Net Position are measured. The Total Pension Liability may be projected from the Actuarial Valuation Date to the Measurement Date. The Measurement Date must be the same as the Reporting Date for the Plan.

5. Net Pension Liability

The liability of employers and nonemployer contributing entities for employees for benefits provided through a defined benefit pension plan. It is calculated as the Total Pension Liability less the Plan Fiduciary Net Position.

6. Plan Fiduciary Net Position

The fair or market value of assets.

7. Reporting Date

The last day of the Plan or employer's fiscal year.

APPENDIX E – GLOSSARY OF TERMS

8. Service Cost

The portion of the actuarial present value of projected benefit payments that is attributed to the current period of employee service in conformity with the requirements of GASB 67. The Service Cost is the normal cost calculated under the entry age actuarial cost method.

9. Total Pension Liability

The portion of the actuarial present value of projected benefit payments that is attributed to past periods of employee service in conformity with the requirements of GASB 67. The Total Pension Liability is the actuarial liability calculated under the entry age actuarial cost method. This measurement generally is not appropriate for estimating the cost to settle the Plan's liabilities.