



August 10, 2023

To: Governor Roy Cooper  
State Auditor Beth Wood  
Council of State  
Joint Legislative Commission on Government Operations  
House Appropriations Committee  
Senate Appropriations Committee  
House Finance Committee  
Senate Finance Committee  
Fiscal Research Division  
Investment Advisory Committee

RE: Quarterly Investment Report for the Period Ending June 30, 2023

Dear Colleagues:

Attached is the Quarterly Investment Report for the state pension fund (Fund) for the period ending June 30, 2023. We continue to focus intently on reducing costs and complexity, increasing transparency and accountability, and building value across the divisions of the N.C. Department of State Treasurer.

The attached report provides detailed information I hope you will find valuable. I am aware of your time constraints, so I want to provide you with some highlights from the prior quarter that you may find helpful.

Specifically:

- Investment Performance – 2nd Quarter 2023

The Fund, comprised of the retirement plans the N.C. Department of State Treasurer manages, reported a gain of 1.96% for the quarter. Pension fund assets were valued at \$115.09 billion on June 30, 2023, up from \$113.17 billion at the end of the 1<sup>st</sup> quarter of 2023. These figures, and all the following performance figures, are reported net of all fees and expenses.

- Environmental, Social and Governance (ESG) Legislation Becomes Law

[House Bill 750](#), which requires investment decisions to be made based on the highest financial returns, not social and political activism, recently became law. It is important that we exercise the highest levels of fiduciary duty of loyalty and care. That means seeking the maximum yields to strengthen and sustain their pension plan for this and future generations.

Additionally, I recently signed an agreement that enables the North Carolina Retirement Systems to vote its own shares of about \$14 billion in BlackRock investments rather than allow the investment giant to cast proxy votes for those shares.

- Support for Clean Energy Sources through the MVP Southgate Pipeline



I recently sent a [letter](#) today to the Federal Energy Regulatory Commission requesting that the agency approve the extension of the MVP Southgate pipeline project's completion date to June 18, 2026. The MVP Southgate project is a proposed interstate pipeline to deliver natural gas to PSNC Energy at existing facilities in Rockingham and Alamance counties in North Carolina, and to provide access to existing, expanding and new markets in southern Virginia and central North Carolina. We have 80,000 miles of roads and 35,000 miles of natural gas pipelines in North Carolina. We spend billions on building and maintaining the roads and highways we travel on every day. But we need to build and support the infrastructure that we do not see, like underground pipelines, that are just as vital to the economic growth of the state.

Thank you all for your support of the N.C. Department of State Treasurer. We will continue to look for opportunities to reduce complexity, increase value, and protect the futures of the more than 1 million members who rely on our retirement systems.

Warmest regards,

*Dale R. Folwell, CPA*

Dale R. Folwell, CPA  
State Treasurer of North Carolina

## Outline

This quarterly report provides the information required under North Carolina General Statute (N.C.G.S.) § 147-69.12 and provides information on the overall performance of the State Treasurer’s investment programs. The information in this report is as of June 30, 2023. This report addresses the following topics:

- I. Investment Performance
  - A. Market Environment Context
  - B. Retirement Systems
    - i. Total Fund (Investment Program) Performance
    - ii. Investment Policy Statement (IPS) Asset Class Performance
  - C. Cash Management Programs
    - i. Short-Term Investment Fund (STIF)
    - ii. Bank Balances
  - D. Other Investment Programs – Ancillary Governmental Participant Investment Program
    - i. Bond Index Fund (BIF)
    - ii. Equity Index Fund (EIF)
    - iii. Escheat Fund
  - E. Other Investments with or on behalf of the State, its Agencies, or Institutions
    - i. Bond Proceeds Fund
- II. North Carolina Retirement System Financial Information
  - A. Introduction to Differences between the IPS and Statute
  - B. Concordance of IPS and N.C.G.S. § 147-69.2
  - C. Statutory Compliance – Statutory Asset Classes
  - D. Fees – Statutory Asset Classes
  - E. Green Managers and Funds
  - F. Locations on Website

Additionally, there are explanatory tables, financial data, and other information included as appendices to this report:

### Appendix 1: Financial Information

- A. Department of State Treasurer Bank Balances
- B. Combined Statement of Net Positions (Fiscal Year to Date)

### Appendix 2: References

- A. Implementation vs. Long-Term Policy Benchmark
- B. Other Benchmark Definitions
- C. Definitions and Procedures

# Quarterly Investment Report for the Period Ending June 30, 2023

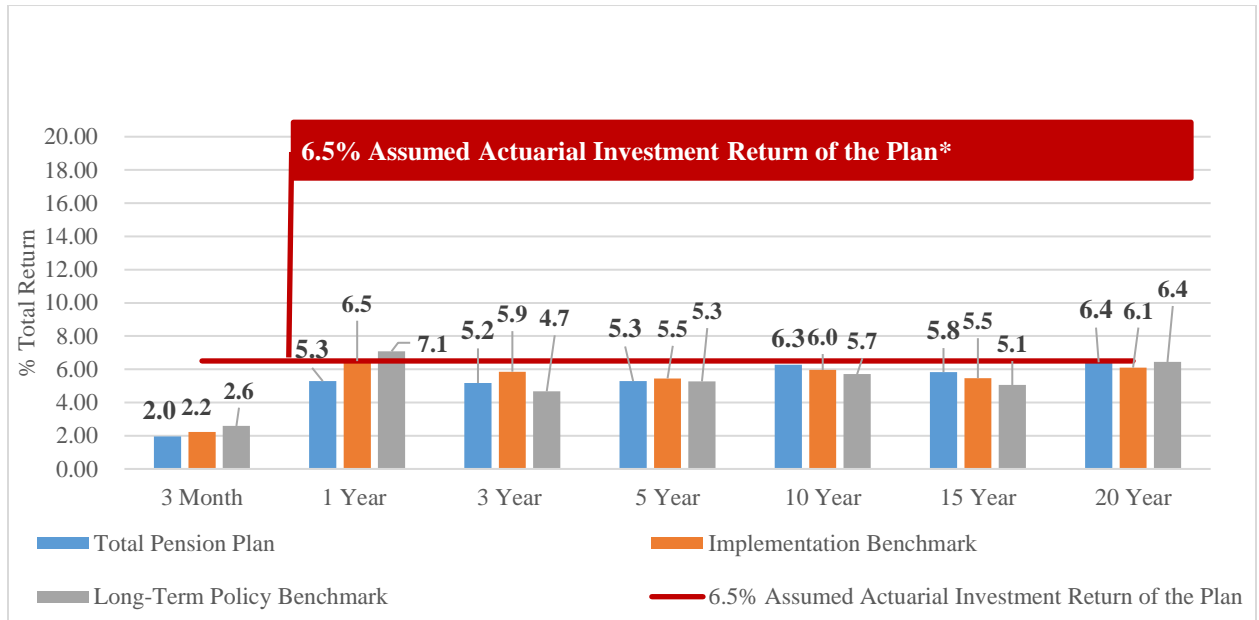
## I. Investment Performance [§ 147-69.12(a)(6)(g)]

### A. Market Environment Context

For the 2nd quarter of 2023, the U.S. economy grew at an annualized rate of 2.4% on an inflation-adjusted basis. Inflation measures continued to show elevated and sustained price increases over the quarter, with the June CPI reading coming in at 3.0% on a year-over-year basis. The unemployment rate ended the quarter at 3.6%. In May, the Federal Reserve raised its key short-term rate by 25 basis points, ending the quarter at a range of 5.00% to 5.25% (its highest level since 2008). The U.S. equity markets returned 8.74% for the quarter, as measured by the S&P 500 index. The ten-year U.S. Treasury bond's yield ended the quarter at 3.83%, up 37 basis points over the quarter. Investment grade corporate bond credit spreads decreased 15 basis points to end the quarter at 130 basis points. The total return on the broad U.S. corporate bond index was -0.21% over the quarter, as the rise in Treasury yields more than offset the decrease in credit spreads over the quarter.

### B. Retirement Systems [§ 147-69.12(a)(5)(a,b)]

#### i. Total Fund (Investment Program) Performance for Periods Ending June 30, 2023 (%; Periods Greater than 1 Year are Annualized)



\*The assumed actuarial investment return of the plan is the discount rate used to calculate the total pension liability as measured in the annual actuarial valuation. **In January of 2021, this return assumption was lowered from 7.0% to 6.5%. Prior to this, the return assumption was lowered from 7.2% to 7.0% in April of 2018.** For definitions of the Implementation Benchmark and the Long-Term Policy Benchmarks, and a comparison of the two, please see Appendix 2, Part A.

## ii. IPS Asset Class Performance

	Market Value (\$000)	3 Mo	1 Yr	3 Yr	5 Yr	10 Yr	15 Yr	20 Yr
<b>Growth</b>	<b>57,502,090</b>	<b>4.14</b>	<b>10.31</b>	<b>10.77</b>	<b>8.17</b>	<b>9.14</b>	<b>7.07</b>	<b>8.01</b>
<i>Benchmark</i>		<b>4.59</b>	<b>12.43</b>	<b>11.27</b>	<b>7.91</b>	<b>8.29</b>	<b>6.45</b>	<b>7.48</b>
Public Equity	41,901,144	5.39	16.77	9.75	7.84	9.00	7.23	8.01
<i>Benchmark</i>		5.89	16.14	10.89	7.58	8.44	6.65	7.42
Private Equity	6,227,382	1.82	(6.72)	19.42	14.34	12.92	9.21	9.75
<i>Benchmark</i>		1.30	(2.57)	18.21	12.25	11.31	9.22	12.18
Non-Core Real Estate	2,263,357	(2.45)	(11.43)	5.71	5.42	10.02	3.90	6.94
<i>Benchmark</i>		(0.19)	(2.37)	8.61	6.22	7.62	2.53	7.17
Opportunistic Fixed Income	7,110,207	1.24	1.86	10.02	5.23	5.13	6.09	-
<i>Benchmark</i>		2.84	12.57	7.98	5.08	3.62	2.05	-
<b>Rates &amp; Liquidity</b>	<b>43,405,235</b>	<b>(0.13)</b>	<b>0.52</b>	<b>(2.24)</b>	<b>1.87</b>	<b>2.35</b>	<b>4.00</b>	<b>4.01</b>
<i>Benchmark</i>		<b>(0.46)</b>	<b>(0.33)</b>	<b>(4.49)</b>	<b>0.92</b>	<b>1.96</b>	<b>3.52</b>	<b>3.63</b>
IG Fixed Income & Cash	30,991,661	(0.60)	(0.63)	(3.79)	1.43	2.16	3.87	3.92
<i>Benchmark</i>		(0.76)	(1.13)	(4.90)	0.76	1.90	3.48	3.60
Pension Cash	12,413,574	1.04	3.01	1.19	1.54	1.18	-	-
<i>Benchmark</i>		1.22	3.77	1.30	1.50	0.95	-	-
<b>Inflation Sensitive &amp; Diversifiers</b>	<b>11,828,513</b>	<b>(0.70)</b>	<b>0.08</b>	<b>8.27</b>	<b>5.32</b>	<b>4.98</b>	<b>2.45</b>	<b>4.41</b>
<i>Benchmark</i>		<b>(1.34)</b>	<b>(1.88)</b>	<b>7.07</b>	<b>4.42</b>	<b>4.47</b>	<b>1.35</b>	<b>3.97</b>
Inflation Sensitive	5,424,146	1.81	6.86	10.96	5.62	3.74	0.76	3.80
<i>Benchmark</i>		(0.26)	2.47	6.76	3.82	2.01	0.86	4.24
Core Real Estate	6,404,367	(2.74)	(5.14)	6.11	5.38	6.94	5.20	6.31
<i>Benchmark</i>		(2.63)	(6.94)	7.35	5.05	7.43	4.94	6.72
<b>Multi-Strategy</b>	<b>2,353,420</b>	<b>2.64</b>	<b>7.90</b>	<b>5.71</b>	<b>2.61</b>	<b>4.98</b>	<b>4.80</b>	<b>5.13</b>
<i>Benchmark</i>		<b>1.29</b>	<b>4.28</b>	<b>2.80</b>	<b>1.62</b>	<b>3.99</b>	<b>3.63</b>	<b>5.94</b>
<b>Total Pension Plan</b>	<b>115,089,258</b>	<b>1.96</b>	<b>5.28</b>	<b>5.17</b>	<b>5.29</b>	<b>6.27</b>	<b>5.83</b>	<b>6.42</b>
<i>Implementation Benchmark</i>		<b>2.23</b>	<b>6.49</b>	<b>5.85</b>	<b>5.45</b>	<b>5.95</b>	<b>5.47</b>	<b>6.10</b>
<i>Long-Term Policy Benchmark</i>		<b>2.59</b>	<b>7.08</b>	<b>4.67</b>	<b>5.27</b>	<b>5.71</b>	<b>5.06</b>	<b>6.44</b>
<i>Assumed Actuarial Investment Return<sup>1</sup></i>		<b>1.59</b>	<b>6.50</b>	<b>6.50</b>	<b>6.50</b>	<b>6.50</b>	<b>6.50</b>	<b>6.50</b>

<sup>1</sup> The Assumed Actuarial Investment Return was decreased from 7.0% to 6.5% in January 2021.

For definitions of the Benchmarks, please see Appendix 2, Part B.

## C. Cash Management Programs

### i. STIF (Short -Term Investment Fund) [§ 147-69.12(a)(4), § 147-86.11(c)]

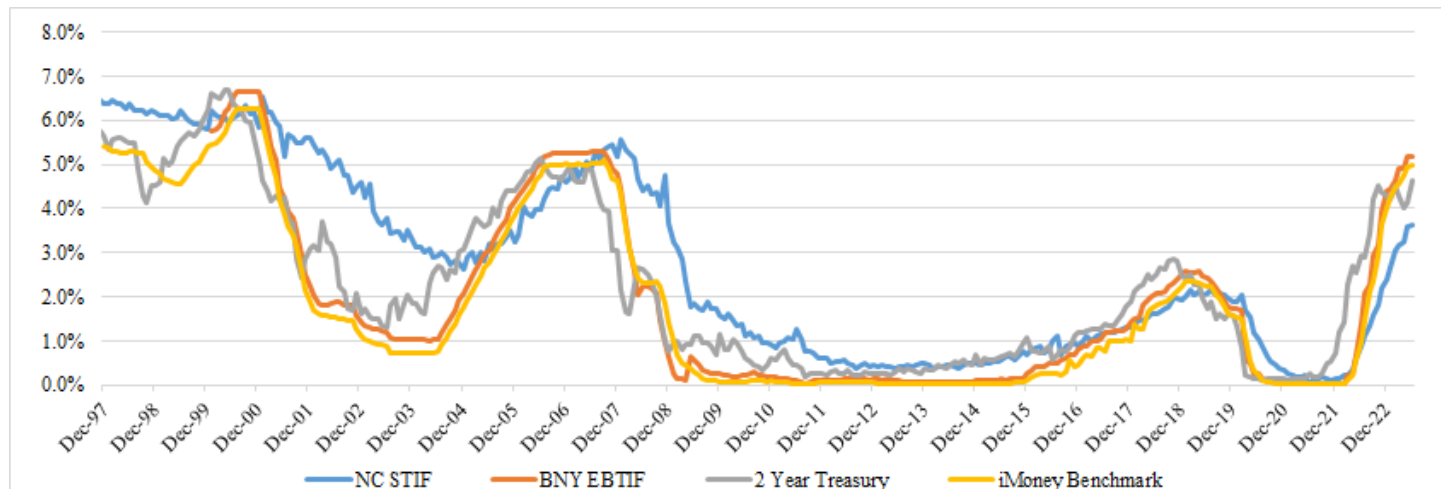
The STIF is responsible for managing the operating funds of the State. Investors include the State’s General Fund, Highway Trust Fund, certain Retirement Systems funds, and other investors. The STIF is also where any bank balances are held for the State; please see part (ii) below for information about the quarter-end bank balances.

As of June 30, 2023, the STIF had the following characteristics:

Total Assets	Duration	3-Month Return	Benchmark 3-Month Return	1-Month Annualized Cash Return	Fees
\$50.7 billion	0.67	0.87%	1.22%	3.63%	N/A

The benchmark for the cash management program, as outlined in the “Department of State Treasurer Investment Management Division Investment Policy Statement for North Carolina Retirement Systems” (IPS), is the iMoneyNet First Tier Institutional Money Market Funds Net Index.

For comparison purposes, the 1-month annualized cash return of the STIF is shown below, over time, versus the yields of other short-term benchmarks.



Notes: The BNY EBTIF is the Bank of New York Mellon Employee Benefit Temporary Investment Fund, a diversified institutional money market sweep vehicle. The iMoney Benchmark is the iMoneyNet First Tier Institutional Money Market Funds Net Index.

### ii. Bank Balances [§ 147-69.12(a)(3)]

The State’s total Bank Balance as of June 30, 2023, was \$267.7 million. For a list of each bank and other qualified depository institutions utilized by the State Treasurer and the most recent quarter-end cash balances, please see Appendix 1, Part A.

## D. Other Investment Programs – Ancillary Governmental Participant Investment Program [§ 147-86.11(c)]

Pursuant to N.C.G.S. § 147-69.3, the Treasurer is responsible for one or more investment programs for the deposit and investment of assets pursuant to §§ 147-69.1 and 147-69.2, namely, the Ancillary Governmental Participant Investment Program (AGPI Program or AGPIP). The AGPI Program includes assets for, among others, the Escheat Fund, public hospitals, Local Government Other Post-Employment Benefits Trusts, Local Government Law Enforcement Special Separation Allowance Trusts, and the North Carolina Conservation Grant Fund, as well as entities such as the State Health Plan, the Disability Income Plan, and the State Educational Assistance Authority. For a complete listing of the AGPI Program participants, see the Other Investment Programs Statement in Appendix 1, Part B. While each of the AGPI Program participants has its particular investment authority as to how it may invest, all AGPI Program participants are eligible for the STIF as referenced in part C (i) above. The following are other investment options maintained by the Treasurer for the AGPI Program.

### **i. BIF (Bond Index Fund) [§ 147-69.12(a)(6)]**

The BIF invests in high quality debt securities, under N.C.G.S. § 147-69.2(b)(1)–(6). The BIF maintains a low-cost approach to investing in investment grade fixed income assets through a passive index strategy. The BIF is designed to produce a return consistent with its Barclays U.S. Aggregate Bond Index benchmark.

As of June 30, 2023, the BIF had the following characteristics:

<b>Total Assets</b>	<b>Duration</b>	<b>3-Month Return</b>	<b>Benchmark 3-Month Return</b>	<b>Crediting Rate</b>	<b>Fees</b>
\$1.4 billion	6.4	-0.78%	-0.84%	N/A	2.5 bps on first \$750 million; 2.0 thereafter

For a list of the entities invested in the BIF at quarter-end, please see the Other Investment Programs Statement in Appendix 1, Part B.

### **ii. EIF (Equity Index Fund) [§ 147-69.12(a)(6)]**

The EIF invests primarily in U.S. and non-U.S. equity securities eligible under N.C.G.S. § 147-69.2(b)(8) with the objective of closely approximating the capitalization weighted total return of the markets for global publicly traded equity securities while maintaining a low-cost approach. The EIF is designed to produce a return consistent with its Morgan Stanley Capital International All Country World Index benchmark.

As of June 30, 2023, the EIF had the following characteristics:

<b>Total Assets</b>	<b>Duration</b>	<b>3-Month Return</b>	<b>Benchmark 3-Month Return</b>	<b>Crediting Rate</b>	<b>Fees</b>
\$815.4 million	N/A	6.24%	6.18%	N/A	2.0 bps

For a list of the entities invested in the EIF at quarter-end, please see the Other Investment Programs Statement in Appendix 1, Part B.

### **iii. Escheat Fund [§§ 147-69.12(a)(6), 147-69.2A(b)]**

As of June 30, 2023, the Escheat Fund had \$1,161.8 million in total invested assets. Of that total, \$982.7 million was in STIF and \$124.9 million in BIF.

Pursuant to N.C.G.S. § 147-69.2(b)(12), up to 20% of the Escheat Fund's assets may be invested in authorized Public Equity, Real Estate, and Alternative Investments. For the quarter ending June 30, 2023, the Escheat Fund held \$54.2 million in these types of investments. Performance data for these assets are shown below:

	<b>Market Value (\$000)</b>	<b>3 Month</b>	<b>1 Yr</b>	<b>3 Yr</b>	<b>5 Yr</b>	<b>10 Yr</b>
<b>Escheat Alternatives</b>	<b>54,213</b>	<b>2.27</b>	<b>-1.36</b>	<b>9.18</b>	<b>4.40</b>	<b>4.90</b>
<b>Benchmark</b>		<b>1.29</b>	<b>-3.44</b>	<b>19.38</b>	<b>14.09</b>	<b>13.15</b>

Additional financial information on the Escheat Fund is available in the Other Investment Programs statement in Appendix 1, Part B. Information on the Escheats Alternatives Benchmark is available in Appendix 2, Part B.

Within the Escheat Alternatives portfolio, pursuant to N.C.G.S. §§ 147-69.2A and 147-69.2(b)(12)(c), the State Treasurer is required to invest 10% of the Escheat Fund through the Venture Capital Multiplier Fund. This is included in the 20% limit laid out in N.C.G.S. § 147-69.2(b)(12). The Venture Capital Multiplier Fund is administered by a third-party professional investment management firm selected through a public procurement process by designees from the Governor's Office, the Department of State Treasurer, the Speaker of the House of Representatives, and the President Pro

Tempore of the Senate. This fund was created in November 2016. Performance and investment information through the most recent quarter-end are as follows:

	Market Value	Commitment	Unfunded	IRR <sup>1</sup>	TVPI <sup>2</sup>	Distributions	DPI <sup>3</sup>
<b>Venture Capital Multiplier Fund</b>	<b>41,167,890</b>	<b>60,000,000</b>	<b>6,579,877</b>	<b>4.86</b>	<b>1.19</b>	<b>22,436,000</b>	<b>0.42</b>

<sup>1</sup> Internal rate of return; <sup>2</sup> Total value to paid in capital, or the sum of (distributions + ending value) divided by the total paid in or funded capital; <sup>3</sup> Distributions to paid in capital, or distributions divided by the total paid in or funded capital.

Note: Returns may reflect higher costs and lower returns in earlier years.

## E. Other Investments with or on behalf of the State, Its Agencies, or Institutions

### i. General Obligation Bond Proceeds Fund [§ 147-69.12(a)(6), § 147-86.11(c)]

The General Obligation Bond Proceeds Fund is managed by a private investment company under contract with the Department of State Treasurer. The investments are valued at amortized cost, which approximates fair value. The General Obligation Bond Proceeds Fund has a separate investment account for each state bond issue to comply with Internal Revenue Service regulations on bond arbitrage. Additional information on the fund may be found in the Other Investment Programs statement in Appendix 1, Part B.

## II. North Carolina Retirement System Financial Information

### A. Introduction to Differences Between IPS and Statute

N.C.G.S. § 147-69.2 prescribes limits on different kinds of investments the Treasurer is authorized to make with the assets of the Retirement Systems. The limits are expressed in terms of percentages of the overall assets invested and there are limits both on individual asset classes and in the aggregate.

During the fiscal year ending June 30, 2014, the Investment Management Division conducted an asset liability study to develop a new IPS (Investment Policy Statement) that would utilize some of the additional investment flexibility created by this statute, which had been updated in 2013. The IPS describing the asset class structure was finalized and became effective July 1, 2014. An updated asset liability study was completed during the fiscal year ending June 30, 2022. Following this updated study, the IPS was adjusted in several ways, but the asset class structure remained unchanged. The tables below compare the Investment Policy Statement’s classifications to the statutory classifications. The numbers reflect net assets owned only by the NCRS funds in the statutory asset classes excluding securities lending, as of the quarter-end date for this report.

### B. Concordance of IPS and N.C.G.S. § 147-69.2 [§ 147-69.12(a)(5)(c)]

The following connects statutory guidelines to those in the IPS:

General Statute § 147-69.2		Statutory Asset Classifications	IPS
b(1)-(6) <sup>1</sup>	At least 20%	STIF	Cash
		Bank Balances	
		External Fixed Income	Investment Grade Fixed Income
		Long-Term Fixed Income	
b(6c)	No more than 7.5%	Other Fixed Income	Opportunistic Fixed Income
b(7)	No more than 10%	Real Estate	Core Real Estate
			Non-Core Real Estate
b(8)	No more than 65%	Public Equity	Public Equity
b(8)(b)	No more than 8.5%	Public Equity Limited Liability	Public Equity
b(9)	No more than 8.75%	Alternatives	Private Equity
			Multi-Strategy
b(9a)	No more than 7.5%	Inflation Protection	Inflation Sensitive

Guide to IPS “segment” groups: Green = Rates and Liquidity; Blue = Growth; Purple = Inflation Sensitive & Diversifiers; Orange = Multi-Strategy

<sup>1</sup> Per § 147-69.2(b)(6a), investments authorized by these sections (fixed income) and those authorized by § 147-69.1(c)(1)-(7) (cash management) are combined in calculating the 20% limit.



The following maps the market value balances of the retirement system at quarter-end to the respective statutory and IPS classifications:

		Statutory Classification (\$ Millions)								Total	
		Public Equity <sup>1</sup>	Long-Term <sup>2</sup>	Cash <sup>2</sup>	External Fixed Income <sup>2</sup>	Alternatives <sup>3</sup>	Real Estate <sup>4</sup>	Inflation Protection <sup>5</sup>	Other Fixed Income <sup>6</sup>		Public Equity Limited Liability <sup>7</sup>
IPS Classification (\$ Millions)	Public Equity	\$40,392								\$1,509	\$41,901
	Private Equity					\$6,227					6,227
	Non-Core Real Estate						\$2,263				2,263
	Opportunistic Fixed Income								\$7,110		7,110
	IG Fixed Income		\$27,122		\$3,870						30,992
	Cash			\$12,414							12,414
	Inflation Sensitive							\$5,424			5,424
	Core Real Estate						6,404				6,404
	Multi-Strategy					2,353					2,353
	<b>Total</b>	<b>\$40,392</b>	<b>\$27,122</b>	<b>\$12,414</b>	<b>\$3,870</b>	<b>\$8,581</b>	<b>\$8,667</b>	<b>\$5,424</b>	<b>\$7,110</b>	<b>\$1,509</b>	<b>\$115,089</b>

<sup>1</sup> N.C.G.S. § 147-69.2(b)(8)(a),(c); <sup>2</sup> N.C.G.S. § 147-69.1(c) and N.C.G.S. § 147-69.2(b)(1)-(6b); <sup>3</sup> N.C.G.S. § 147-69.2(b)(9); <sup>4</sup> N.C.G.S. § 147-69.2(b)(7); <sup>5</sup> N.C.G.S. § 147-69.2(b)(9a); <sup>6</sup> N.C.G.S. § 147-69.2(b)(6c); <sup>7</sup> N.C.G.S. § 147-69.2(b)(8)(b)

Note: For statutory compliance purposes, all public equity investments made through funds with limited liability structures are included in the category of investments authorized by N.C.G.S. § 147-69.2(b)(8)(b.). This kind of investment structure is limited to a maximum of 8.5% of the total fund. One external manager, ValueAct Capital Management LP, is a limited liability partnership, and thus assets invested with this manager are included in the N.C.G.S. § 147-69.2(b)(8)(b.) limit of 8.5%. ValueAct Capital Management, however, has a different investment strategy than the other assets invested with managers through limited liability structures.

The following provides a summary of the investment vehicles in which the various trusts and clients are invested:

		Vehicles				
		Short Term Investment Fund	Bond Index Fund	Equity Index Fund	Escheats Alternatives	Long-Term Investment Fund (QIB)
Trusts & Clients	Retirement Systems	●				●
	Cash Management Programs	●				
	Ancillary Governmental Participant Investment Program	●	●	●		
	Escheats Fund	●	●		●	

### C. Statutory Compliance – Statutory Asset Classes [§ 147-69.12(a)(5)(c); § 147-69.12(a)(1)]

The table below lists the maximum or minimum percentages of the total assets allowed and actual percentages as of the quarter-end.

Statutory Citation	Minimum or Maximum Percentage of Fund	Percentage of Total Assets Invested	Compliant
N.C.G.S. §§ 147-69.1(c) and 147-69.2(b)(1)-(6b) for fixed income and cash	At least 20%	37.7%	✓
N.C.G.S. § 147-69.2(b)(8) for public equity	No more than 65%	36.4%	✓
N.C.G.S. § 147-69.2(b)(8)(b.) for public equity limited liability investment vehicles	No more than 8.5%	1.3%	✓
N.C.G.S. § 147-69.2(b)(6c) for other fixed income	No more than 7.5%	6.2%	✓
N.C.G.S. § 147-69.2(b)(7) for real estate	No more than 10%	7.4%	✓
N.C.G.S. § 147-69.2(b)(9) for private equity and other alternatives	No more than 8.75%	7.5%	✓
N.C.G.S. § 147-69.2(b)(9a) for inflation protection	No more than 7.5%	4.7%	✓
N.C.G.S. § 147-69.2(b)(10a) for the 35% aggregate portfolio limit	The sum of rows 3 to 7; No more than 35%	27.0%	✓

Note: Percentage of Total Assets Invested is based on market values as of the most recent quarter-end. Undrawn capital commitments are not included in the calculations until they are called and invested.

In the event that the market value of any of subdivision (6c) or (7), sub-subdivision b. of subdivision (8), or subdivision (9) or (9a) of N.C.G.S. § 147-69.2 increases during a fiscal year by an amount greater than three percent (3%) of the market value of all invested assets of the Retirement Systems as of the prior fiscal year end, then that event will be noted in this report along with the expected impact on the risk profile of the assets. No such change occurred during the fiscal year ending June 30, 2023.

### D. Fees – Statutory Asset Classes [§ 147-69.12(a)(1)]

The Investment Management Division utilizes external managers for a portion of the Retirement Systems. Over time, the Department of State Treasurer, with the advice and counsel of the Investment Advisory Committee, has used a relatively lower risk and lower cost approach to investing the North Carolina Retirement System trust funds. While costs have risen somewhat over time as more diverse external investment strategies were pursued, the all-in costs of investing the retirement trust fund remain low, especially in comparison to similarly situated institutional peers.

The fees incurred to external investment managers, by asset class, are outlined in the Combining Statement of Operations – Pension Trust Funds Investment Program in Appendix 1, Part B. In addition to the fees shown in this statement, internal administrative expenses of the Funds and (for the internally managed portfolios) trade transaction costs are paid by the Treasurer. These charges are reported on the Combined Statement of Operations in Appendix 1, Part B.

During the calendar year 2022, the Department engaged CEM Benchmarking, a leading independent cost and performance analysis firm, to review the cost structure of the funds for the calendar year 2021. The report showed that the funds' cost structure was significantly below that of institutional peers. This led to savings of roughly 24.7 basis points compared to the median peer. The Department continues to proactively target improvements in cost-efficiency, transparency, risk management, and compliance.

## Calendar Year 2021 NCRS Costs of Investment Operations Compared to Peers

(Expressed in basis points where 50 basis points equals 0.50%)

	Total (Basis Points)
Median Peer	53.0
North Carolina Retirement Systems	28.3
Percentile	0%

Source: CEM [Cost Effectiveness Measurement] Benchmarking Inc. The peer group consists of 14 U.S. public pension funds managing from \$70.6 billion to \$335.8 billion. The median peer managed an average of \$119.1 billion throughout the year versus NCRS' \$119.9 billion. In CEM's methodology, total cost excludes carry / performance fees for real estate, infrastructure, natural resources, and private equity funds. Performance fees are included for public market asset classes and hedge funds. All such fees and expenses have been deducted from all investment returns reported by NCRS.

### **E. Green Managers and Funds [§ 147-69.12(a)(2)]**

There is no consensus on a validation group or process to certify green managers for investments, and the statute provides no definition of the term "sustainable practices" that would enable the Treasurer to determine which companies and funds would fall under this provision. Thus, it is not possible to report any relevant data at this time.

### **F. Locations on Website [§ 147-69.12(a)(6)(f,i,j)]**

The current Investment Policy Statement may be accessed at the following link:

<https://www.nctreasurer.com/media/1501/open>

A list of new commitments to external investment managers may be found within the periodic IAC Performance Review presentations at the following link (mid-page under Performance and Fee Reports):

<https://www.nctreasurer.com/divisions/investment-management/reports/investment-performance-and-fee-reports>

The current Placement Agent, Political Contribution, and Connection Disclosure Policy may be accessed at the following link:

<https://www.nctreasurer.com/media/1508/open>

Additional information on the use of placement agents by investment managers is available on request.

## Appendix 1: Financial Information

### Part A: Department of State Treasurer Bank Balances

**DEPARTMENT OF STATE TREASURER  
BANK BALANCES  
AS OF June 30, 2023  
(dollars in thousands)**

Summary of Bank Balances	
Balance as of 03/31/2023	\$ 322,971
Total Receipts	\$ 58,781,988
Total Payments	\$ 58,837,214
<b>Balance as of 06/30/2023</b>	<b>\$ 267,745</b>

Bank Balances as of June 30, 2023	
<i>Bank</i>	<i>Bank Balance</i>
Wells Fargo	\$ 96,800
Bank of America	\$ 45,205
Truist	\$ 7,642
PNC	\$ 241
First Citizens	\$ 11,094
Atlantic Union	\$ 1,000
Bank of Tennessee	\$ 4
Bank OZK	\$ 2,500
First Horizon Bank	\$ 15,004
Fidelity Bank	\$ 6,973
First Bank	\$ 19,363
First Federal Savings Bank	\$ 750
First National Bank	\$ 12,882
HomeTrust Bank	\$ 1,000
Lumbee Guaranty Bank	\$ 2,750
M&F Bank	\$ 2,250
Peoples Bank	\$ 2,206
Pinnacle Bank	\$ 2,500
South State Bank	\$ 1,100
Southern Bank & Trust	\$ 22,400
Surrey Bank	\$ 1,000
TD Bank	\$ 1,750
Townebank	\$ 2,731
United Community Bank	\$ 6,600
Uwharrie Bank	\$ 2,000
<b>Total*</b>	<b>\$ 267,745</b>

\*This number reflects the balance in the State treasury credited to all State funds, including not only the General Fund but also other funds.

## **Part B: Combined Statement of Net Positions (Fiscal Year to Date)**

- Combined Statement of Net Position
- Combining Statement of Net Position – Pension Trust Funds Investment Program
- Other Investment Programs
- Combined Statement of Operations
- Combining Statement of Operations – Pension Trust Funds Investment Program

**DEPARTMENT OF STATE TREASURER**  
**COMBINED STATEMENT OF NET POSITION**  
**JUNE 30, 2023**  
(dollars in thousands)

**Unaudited**

	Short-term Investment Fund	*Pension Trust Funds Investment Program Subtotal	Intrafund Eliminations	Total
<b>Net Position:</b>				
<b>Investment Securities:</b>				
Cash Equivalents	\$ -	\$ -	\$ -	\$ -
Certificates of Deposit	-	-	-	-
Repurchase Agreements	1,200,000	-	-	1,200,000
U.S. Treasury Bills/ Notes/ Bonds	27,474,597	7,247,083	-	34,721,680
U.S. Government Agency Notes/ Bonds	21,550,000	610,199	-	22,160,199
GNMA Certificates	-	9,296,793	-	9,296,793
Corporate Obligations	-	12,614,274	-	12,614,274
Other Investments	-	7,383,557	-	7,383,557
Investments in Equity Securities	-	41,901,155	-	41,901,155
Investments in Equity Trusts & Limited Liability Entities	-	2,195	-	2,195
Investments in Real Estate Trust Funds & Partnerships	-	8,667,724	-	8,667,724
Investments in Alternative Partnerships	-	8,578,596	-	8,578,596
Investments in Credit Partnerships	-	7,110,207	-	7,110,207
Investments in Inflation Partnerships and Other Invest.	-	3,768,778	-	3,768,778
<b>Total Investment Securities</b>	<b>\$ 50,224,597</b>	<b>\$ 107,180,561</b>	<b>\$ -</b>	<b>\$ 157,405,158</b>
Cash in Bank	267,745	-	-	267,745
Payable for securities not settled	-	-	-	-
Deposits in Short-term Investment Fund	-	7,692,066	(7,692,066)	-
Other Assets	205,253	234,078	-	439,331
Other Liabilities	(31,920)	(17,447)	-	(49,367)
<b>Total Net Position</b>	<b>\$ 50,665,675</b>	<b>\$ 115,089,258</b>	<b>\$ (7,692,066)</b>	<b>\$ 158,062,867</b>
<b>Participant Equity:</b>				
General Fund	\$ 16,047,610	\$ -	\$ -	\$ 16,047,610
Other Funds Which Earn Interest				
for General Fund	7,700,188	-	-	7,700,188
Highway Fund	1,463,611	-	-	1,463,611
Highway Trust Fund	931,978	-	-	931,978
University Trust Funds	4,270,052	-	-	4,270,052
Pension Trust Funds	1,523,918	115,089,258	-	116,613,176
Other Independent Trust Funds	10,083,501	-	-	10,083,501
Local Political Subdivisions	883,284	-	-	883,284
Licensing Boards	69,467	-	-	69,467
Other Investment Funds	7,692,066	-	(7,692,066)	-
<b>Total Participant Equity</b>	<b>\$ 50,665,675</b>	<b>\$ 115,089,258</b>	<b>\$ (7,692,066)</b>	<b>\$ 158,062,867</b>
Percent of Total	32.06%	72.81%	-4.87%	100.00%

\*The Trust Funds Investment Program is presented at market value. Trust Funds detail is included on Combining Statement of Net Position.

DEPARTMENT OF STATE TREASURER  
 COMBINING STATEMENT OF NET POSITION - PENSION TRUST FUNDS INVESTMENT PROGRAM

JUNE 30, 2023

(dollars in thousands)

	Cash Investment Fund	Long-term Investment Fund	External Fixed Inc. Investment Fund	Long-Only Public Equity Investment Fund	Hedged Public Equity Investment Fund *	Real Estate Investment Fund	Alternatives Investment Fund	Other Fixed Income Investment Fund	Inflation Protection Investment Fund	Totals
<b>Net Position:</b>										
Investment Securities:										
Cash and Cash Equivalents	\$ -	-	-	-	-	-	-	-	\$ -	-
U.S. Treasury Bills/ Notes/ Bonds	-	6,881,344	-	-	-	-	-	365,739	-	7,247,083
U.S. Government Agency Notes/ Bonds	-	610,199	-	-	-	-	-	-	-	610,199
GNMA Certificates	-	9,296,793	-	-	-	-	-	-	-	9,296,793
Corporate Obligations	-	10,069,830	1,844,898	-	-	-	-	699,546	-	12,614,274
Other Investments	6,479,746	-	320,679	-	-	-	-	583,132	-	7,383,557
Investments in Equity Securities	-	-	-	41,898,950	-	-	2,205	-	-	41,901,155
Investments in Equity Trusts & Limited Liability Entities	-	-	-	-	2,195	-	-	-	-	2,195
Investments in Real Estate Trust Funds & Partnerships	-	-	-	-	-	8,667,724	-	-	-	8,667,724
Investments in Alternative Partnerships	-	-	-	-	-	-	8,578,596	-	-	8,578,596
Investments in Credit Partnerships	-	-	-	-	-	-	-	7,110,207	-	7,110,207
Investments in Inflation Partnerships and Other Invest.	-	-	-	-	-	-	-	3,768,778	-	3,768,778
<b>Total Investment Securities</b>	\$ 6,479,746	26,858,166	2,165,577	41,898,950	2,195	8,667,724	8,580,801	5,417,195	\$ -	107,180,561
Cash in Bank	-	-	-	-	-	-	-	-	-	-
Deposits in Short-term Investment Fund	5,933,828	53,345	1,704,893	-	-	-	-	-	-	7,692,066
Other Assets	-	219,676	-	-	-	-	-	14,402	-	234,078
Other Liabilities	-	(9,996)	-	-	-	-	-	(7,451)	-	(17,447)
<b>Total Net Position</b>	\$ 12,413,574	27,121,191	3,870,470	41,898,950	2,195	8,667,724	8,580,801	5,424,146	\$ -	115,089,258

<b>Participant Equity:</b>										
Pension Trust Funds	\$ 12,413,574	27,121,191	3,870,470	41,898,950	2,195	8,667,724	8,580,801	7,110,207	5,424,146	\$ 115,089,258
<b>Total Participant Equity</b>	\$ 12,413,574	27,121,191	3,870,470	41,898,950	2,195	8,667,724	8,580,801	7,110,207	5,424,146	\$ 115,089,258
<b>Percent of Total</b>	10.79%	23.56%	3.36%	36.41%	0.00%	7.53%	7.46%	6.18%	4.71%	100.00%

\* In terms of calculating performance, all public equity investments with long strategies are grouped together, and all public equity investments with hedged strategies are grouped together.

Note: One external manager, ValueAct Capital Management LP is included in the Long-Only Public Equity Investment Fund group on this combining statement; however, on the "Concordance of IPS and NCGS § 147-69.2" table in Part II, Section B of this report, the assets invested with Value Act are included in the "Public Equity Limited Liability" category, not the "Public Equity" category. The "Public Equity" category includes all assets invested in long strategies.

**DEPARTMENT OF STATE TREASURER  
OTHER INVESTMENT PROGRAMS**

**Unaudited**

**JUNE 30, 2023**  
(dollars in thousands)

	Bond Index Fund	Equity Index Fund	Escheats Alternative Investments	General Obligation Bond Proceeds	Totals
<b>STATEMENT OF NET POSITION</b>					
Net Position:					
Deposits in Equity Index Fund	\$ -	815,392	-	-	815,392
Deposits in Bond Index Fund	1,404,659	-	-	-	1,404,659
Deposits in Alternative Investment Fund	-	-	54,213	-	54,213
Other Assets	-	-	-	128,337	128,337
<b>Total Net Position</b>	<b>\$ 1,404,659</b>	<b>\$ 815,392</b>	<b>\$ 54,213</b>	<b>128,337</b>	<b>2,402,601</b>
 <b>STATEMENT OF OPERATIONS</b>					
(for the Fiscal Year ended March 31, 2023)					
Revenues:					
Investment Income:					
Investment Earnings	\$ 28,570	4,251	4,596	3,612	41,029
Other Income	-	-	-	-	-
Subtotal	28,570	4,251	4,596	3,612	41,029
Net Unrealized Appreciation/Depreciation	(45,533)	101,356	(5,216)	-	50,607
<b>Total Investment Income</b>	<b>(16,963)</b>	<b>105,607</b>	<b>(620)</b>	<b>3,612</b>	<b>91,636</b>
Expenditures:					
Management Fees	(326)	(114)	(231)	(58)	(729)
Other Cost	-	-	(37)	-	(37)
<b>Total Expenditures</b>	<b>(326)</b>	<b>(114)</b>	<b>(268)</b>	<b>(58)</b>	<b>(766)</b>
<b>Net Investment Income (Loss)</b>	<b>\$ (17,289)</b>	<b>\$ 105,493</b>	<b>\$ (888)</b>	<b>3,554</b>	<b>90,870</b>



AGPIP Participants:	Bond Index Fund	Equity Index Fund	Escheats Alternatives
Albemarle and Tideland MHRHIT	X	X	
Albemarle RH OPEB	X	X	
Apex OPEB Trust	X	X	
Appalachian DHD OPEB			
Archdale LEOSSA	X	X	
Buncombe County	X	X	
Cabarrus County OPEB			
City of Asheville	X	X	
City of Concord	X	X	
City of Greensboro	X	X	
City of Greenville	X	X	
City of Sanford	X	X	
Clean Water	X		
Columbus Regional		X	
Community College Systems	X		
Conservation EE II	X	X	
Conservation Grant Endowment	X	X	
Cornelius LEOSSA		X	
Cornelius OPEB		X	
County of Currituck LEOSSA			
County of Currituck OPEB			
County of Dare	X	X	
County of Dare LEOSSA	X	X	
County of Guilford	X	X	
County of Harnett OPEB	X	X	
Cumberland OPEB Trust			
Disability Income	X		
Drinking Water	X		
Ecosystem Restoration Fund	X	X	
ElectriCities OPEB	X	X	
Employee Benefit Trust	X		
Forsyth County	X	X	
Greensboro LEOSSA	X	X	
Greenville Utilities Commission OPEB	X	X	
Guilford County LEOSSA		X	
Harnett LEOSSA Trust	X	X	
Holly Springs OPEB		X	
Isothermal Planning & Development OPEB	X	X	
Kill Devil Hills OPEB		X	
Lake Norman Charter School			
Margaret Pardee Hospital	X	X	
Martin County OPEB	X	X	
Mecklenburg County	X	X	
NC Muni Power Catawba Unit 1 DTF	X	X	
NC Muni Power Catawba Unit 2 DTF	X	X	
NC Student Loan Fund			
NCACC NC Association of County Commissioners OPEB Trust	X	X	
Orange County OPEB	X		
Partners Behavioral			
Pine Lake Preparatory Charter School			
Pinnacle Classical Academy Charter School			
Raleigh Housing Authority	X	X	
Register of Deeds	X		
Riparian Buffer Restoration Fund	X	X	
Rowan Cabarrus Community College	X		
State Property Fire Insurance	X		
State Public Education Property Insurance Fund	X		
State Treasurer Escheats	X		X
Swain County			
Town of Cornelius (General Fund)		X	
Town of Morganton	X		
Town of Williamston	X	X	
Trillium Health OPEB	X	X	
Trillium ECBH			
UNC SEAA Student Loan			
Union County	X	X	
Wake County OPEB Trust	X	X	
Watauga Medical Center	X	X	
Wildlife Endowment	X	X	

**DEPARTMENT OF STATE TREASURER**  
**COMBINED STATEMENT OF OPERATIONS**  
**FOR THE QUARTER ENDED JUNE 30, 2023**

**Unaudited**

(dollars in thousands)

	Short-term Investment Fund	Pension Trust Funds Investment Program Subtotal*	Intrafund Eliminations	Total
<b>Revenues:</b>				
Investment Income:				
Investment Earnings	\$ 1,247,061	\$ 6,768,810	\$ -	\$ 8,015,871
Intra-Pool Interest Earnings	-	214,399	(214,399)	-
Income from Securities Lending	12,045	2,888	-	14,933
Commission Recapture	-	-	-	-
Other Income	-	7,353	-	7,353
Subtotal	1,259,106	6,993,450	(214,399)	8,038,157
Net Unrealized Depreciation	-	(718,527)	-	(718,527)
Total Investment Income (Loss)	1,259,106	6,274,923	(214,399)	7,319,630
<b>Expenditures:</b>				
Treasurer's Allocated Cost	(4,228)	(46)	-	(4,274)
Management Fees	-	(253,622)	-	(253,622)
Placement Fees**	-	-	-	-
Incentive Fees	-	(193,185)	-	(193,185)
Dividend Withholding Tax	-	(21,492)	-	(21,492)
Other Cost	(3,481)	(28,007)	-	(31,488)
Total Expenditures	(7,709)	(496,352)	-	(504,061)
Net Investment Income (Loss)	\$ 1,251,397	\$ 5,778,571	\$ (214,399)	\$ 6,815,569
<b>Total Investment Income (Loss) Allocated:</b>				
General Fund	\$ 552,597	\$ -	\$ -	\$ 552,597
Highway Fund	31,959	-	-	31,959
Highway Trust Fund	20,980	-	-	20,980
University Trust Funds	89,855	-	-	89,855
Pension Trust Funds	39,508	5,778,571	-	5,818,079
Other Independent Trust Funds	224,752	-	-	224,752
Local Political Subdivisions	21,056	-	-	21,056
Licensing Boards	1,404	-	-	1,404
Other Investment Funds	269,286	-	(214,399)	54,887
Total Investment Income (Loss) Allocated	\$ 1,251,397	\$ 5,778,571	\$ (214,399)	\$ 6,815,569

**Cash Return, Fiscal Year-to-Date (Annualized) 2.47%**

\*Pension Trust Funds detail is included on the Combining Statement of Operations-Pension Trust Funds Investment Program.

\*\*By policy and practice, neither the Department of State Treasurer nor the funds bear the cost of placement agent fees.

**DEPARTMENT OF STATE TREASURER**  
**COMBINING STATEMENT OF OPERATIONS - PENSION TRUST FUNDS INVESTMENT PROGRAM**  
**FOR THE QUARTER ENDED JUNE 30, 2023**  
(dollars in thousands)

	Cash Investment Fund	Long-term Investment Fund	External Fixed Inc. Investment Fund	Long-Only Public Equity Investment Fund	Hedged Public Equity Investment Fund	Real Estate Investment Fund	Alternative Investment Fund	Other Fixed Income Investment Fund	Inflation Protection Investment Fund	Totals
<b>Revenues:</b>										
Investment Income:										
Investment Earnings	\$ 242,725	809,220	40,467	4,246,904	116	139,370	543,665	453,603	292,740	\$ 6,763,810
Intra-Pool Interest Earnings	160,313	6,673	47,413	-	-	-	-	-	-	214,399
Income from Securities Lending	-	2,673	4	-	-	-	-	-	211	2,888
Commission Recapture	-	-	7,353	-	-	-	-	-	-	7,353
Other Income	-	-	-	-	-	-	-	-	-	-
Subtotal	403,038	818,566	95,237	4,246,904	116	139,370	543,665	453,603	292,951	6,993,430
Net Unrealized Appreciation (Depreciation)	-	(1,102,937)	(6,022)	1,851,631	139	(642,464)	(735,507)	(232,208)	148,841	(718,527)
Total Investment Income (Loss)	403,038	(284,391)	89,215	6,098,535	275	(503,094)	(191,842)	221,395	441,792	6,274,903
<b>Expenditures:</b>										
Treasurer's Allocated Cost	-	(13)	-	(19)	-	(4)	(4)	(3)	(3)	(46)
Management Fees	-	-	-	(51,055)	-	(64,095)	(31,357)	(51,959)	(32,156)	(239,622)
Incentive Fees	-	-	-	-	-	(64,564)	(40,275)	(31,519)	(47,827)	(189,185)
Placement Fees*	-	-	-	-	-	-	-	-	-	-
Dividend Withholding Tax	-	-	-	(17,060)	-	(1,666)	(347)	-	(2,419)	(21,492)
Other Cost	(117)	(2,683)	(265)	(2,604)	-	(4,718)	(7,301)	(3,118)	(5,203)	(28,007)
Total Expenditures	(117)	(2,696)	(265)	(71,738)	-	(135,047)	(108,284)	(90,599)	(87,608)	(496,332)
Net Investment Income (Loss)	\$ 402,921	(287,087)	\$ 88,952	\$ 6,026,797	\$ 275	\$ (638,141)	\$ (300,126)	\$ 130,796	\$ 354,184	\$ 5,778,571
<b>Total Investment Income (Loss) Allocated:</b>										
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Highway Fund	-	-	-	-	-	-	-	-	-	-
Highway Trust Fund	-	-	-	-	-	-	-	-	-	-
University Trust Funds	-	-	-	-	-	-	-	-	-	-
Pension Trust Funds	402,921	(287,087)	88,952	6,026,797	275	(638,141)	(300,126)	130,796	354,184	5,778,571
Other Independent Trust Funds	-	-	-	-	-	-	-	-	-	-
Local Political Subdivisions	-	-	-	-	-	-	-	-	-	-
Licensing Boards	-	-	-	-	-	-	-	-	-	-
Other Investment Funds	-	-	-	-	-	-	-	-	-	-
Total Investment Income (Loss) Allocated	\$ 402,921	(287,087)	\$ 88,952	\$ 6,026,797	\$ 275	\$ (638,141)	\$ (300,126)	\$ 130,796	\$ 354,184	\$ 5,778,571
<b>Total Return, 12, 24, and 36 and 60 months:</b>										
12 months	3.01%	-1.13%	2.42%	16.77%	13.88%	-6.91%	-3.19%	1.86%	6.88%	5.28%
24 months	1.60%	-6.31%	1.30%	-3.47%	9.52%	4.48%	3.37%	3.36%	10.17%	-1.18%
36 months	1.19%	-4.42%	1.01%	9.75%	18.37%	6.05%	15.92%	10.02%	10.96%	5.17%
60 months	1.54%	1.33%	1.37%	7.84%	9.43%	5.45%	11.23%	5.23%	5.62%	5.29%

\*By policy and practice, neither the Department of State Treasurer nor the funds bear the cost of placement agent fees.

## **Appendix 2: References**

### **Part A: Implementation vs. Long-Term Policy Benchmark**

The Implementation Benchmark is a blend of the Asset Class Benchmarks at policy weights. It is currently weighted as follows: 55% Growth Benchmark, 33% Rates & Liquidity Benchmark, 11% Inflation Sensitive & Diversifiers Benchmark, and 1% Multi-Strategy Benchmark.

The Long-Term Policy Benchmark is comprised of 56% MSCI ACWI IMI Net, 28% BOAML 5+ Years U.S. Treasury Index, 6.5% Bloomberg Commodity Index, 5% BOAML 3 Month Treasury Bill Index, and 4.5% BOAML 1-3 Years U.S. Inflation-Linked Treasury Index.

The Implementation Benchmark represents the Retirement System's current strategic policy allocations, and thus allows for the evaluation of (1) the impact of manager selection and (2) the impact of tactical variations away from the strategic policy allocations. The Long-Term Policy Benchmark represents the Retirement System's passively managed equivalent and allows for evaluation of the active asset allocation decisions made across the Retirement System. Taken together, these two benchmarks may provide insights as to how the Retirement System is performing versus reasonably comparable hypothetical portfolios.

### **Part B: Other Benchmark Definitions**

The Growth Benchmark is a blend of the Public Equity Benchmark, Private Equity Benchmark, Non-Core Real Estate Benchmark, and Opportunistic FI Benchmark at policy weights.

The Public Equity Benchmark is the dynamically weighted combination of the MSCI ACWI IMI Net (Long-Only) and a beta adjusted MSCI ACWI IMI Net (Hedged Equity).

The Private Equity Benchmark is comprised of the following Burgiss Group Private iQ indices: 45% Buyout, 25% Venture Capital, and 30% Distressed.

The Non-Core Real Estate Benchmark is comprised of the following Burgiss Group Private iQ indices: 80% U.S. Non-Core Real Estate (Opportunistic and Value-Added) and 20% Non-U.S. Non-Core Real Estate (Opportunistic and Value-Added).

The Opportunistic Fixed Income Benchmark is comprised of 50% HFRX Distressed Securities Index, 20% HFRX Relative Value Index, 15% Credit Suisse Leveraged Loan Index, and 15% BOAML High Yield Index.

The Rates & Liquidity Benchmark is a blend of the IG Fixed Income Benchmark and the Cash Benchmark at policy weights.

The IG Fixed Income Benchmark is comprised 10% iMoneyNet First Tier Institutional Money Market Funds Net Index and 90% custom BOAML Core Investment Grade Index. The custom BOAML core index is comprised of the following weightings: 30% BOAML 5+ Years Governments, 35% BOAML 5+ Years Investment Grade Corporates, and 35% BOAML Mortgage Master.

The Cash Benchmark is the iMoneyNet First Tier Institutional Money Market Funds Net Index.

The Inflation Sensitive & Diversifiers Benchmark is a blend of the Inflation Sensitive Benchmark and the Core Real Estate Benchmark at policy weights.

The Inflation Sensitive Benchmark is the dynamically weighted combination of the Bank of America Merrill Lynch 1-3 Years U.S. Inflation-Linked Treasury Index (TIPS), the Bloomberg Commodities Index (Commodities), and a combination of the benchmarks of investments classified within Private Natural Resources or Other Real Assets and Diversifiers.

The Core Real Estate Benchmark is comprised of 80% Custom NCREIF ODCE Net and 20% FTSE EPRA NAREIT Global Index.

The Multi-Strategy Benchmark is comprised of a dynamically weighted combination of the HFRX ED: Multi-Strategy Index, net of fees, and the market value weighted benchmarks for any other total fund strategies within the Portfolio.

The Escheat Alternatives Benchmark is the total blended Burgiss Private iQ Private Equity index.

## **Part C: Definitions and Procedures**

The following is information that the Department of State Treasurer provides regarding its internal procedures for submitting statutorily required reports, as well as definitions of terms used within this report.

### **REQUIRED INVESTMENT REPORTS**

- (a) The State Treasurer shall issue all the reports required by N.C.G.S. § 147-69.12 concerning the State Treasurer's investment programs on or before the dates required by law. The State Treasurer may also issue voluntary reports or include in mandatory reports additional information that is not required by the statute.
- (b) Reports required by different statutory provisions may be combined, so long as the combined report provides all the information required by each statutory provision.
- (c) Failure by any Department of State Treasurer employee to comply with any provision of this Section may result in disciplinary action up to and including dismissal.

### **TRANSMISSION OF REPORTS**

- (a) The State Treasurer will issue reports directly or through a deputy authorized under N.C.G.S. § 147-75.
- (b) To fulfill the report delivery requirements set out in N.C.G.S. § 147-69.12(d):
  - (1) E-mail delivery shall be used to send reports to the Joint Legislative Commission on Government Operations, chairs of the House of Representatives and Senate Appropriations Committees, chairs of the House of Representative and Senate Finance Committees, Fiscal Research Division, Governor, Council of State, and State Auditor.
  - (2) A paper copy shall also be sent to the Joint Legislative Commission on Government Operations, unless the Commission indicates that a paper copy is not necessary.
  - (3) The website of the State Treasurer shall have a publicly accessible page that collects recent reports required by the North Carolina General Statutes concerning the State Treasurer's investment programs. Reports shall be collected for at least ten years.
  - (4) E-mail delivery or website portal delivery, at the State Treasurer's discretion, shall be used to send reports, where required by N.C.G.S. § 147-69.12(d), to other officials, institutions, boards, commissions, or agencies investing in a State Treasurer investment program, including but not limited to the State Treasurer's Ancillary Governmental Participant Investment Program (AGPIP).

### **SCOPE OF REPORTING; LEVEL OF DETAIL**

- (a) Each statutory investment report shall include all State Treasurer investments, unless the statute specifically requests only certain types of investments.
- (b) For internally managed portfolios, the State Treasurer may make aggregated reports for each strategy that describe performance and assets at the portfolio level, rather than listing each asset within the internally managed portfolio.
- (c) Unless otherwise specified by the Department of State Treasurer in the report, all reports shall use generally accepted accounting principles and performance measurement methodologies as adopted by the State Treasurer in its policies and procedures. The State Treasurer shall periodically review and update such policies and procedures and make them available upon request.

### **DEFINITIONS OF TERMS**

In the State Treasurer's required investment reports, the following words and phrases shall have the meanings defined below:

- (1) "Bank balance" means money held by the State Treasurer in a bank or savings institution.
- (2) "Cash management programs" means the Short-Term Investment Fund, bank balances, and any other future investment fund or strategy designed primarily to preserve capital and maintain a strong liquidity profile, as well as achieve competitive relative returns.

- (3) “Duration” of an investment refers to the sensitivity of an investment’s price to changes in interest rates. The figure estimates the % change in price for a 100 basis point change in yields. A duration of 1.0 would equate to a 1.0% decrease in the price of bonds when yields rise by 100 basis points. The calculation involves the present value of the investment, its yield, coupon payment, maturity date and other features, and is measured in terms of years. A higher figure suggests higher interest rate sensitivity. The duration of a portfolio is calculated as the weighted average of all of the underlying securities’ duration.
- (4) “Fee” means a charge against the State Treasurer or a State Treasurer investment. The State Treasurer’s reports shall include under “fees” all of the following types of charges:
- (i) Management fees;
  - (ii) Incentive compensation, carried interest, incentive fees, or performance fees; and
  - (iii) Placement fees.
- (5) “Expense” means the Department of State Treasurer’s administrative costs attributable to and charged to the investment portfolio. The State Treasurer’s reports shall include under “expenses” all of the following types of charges, as communicated to the State Treasurer:
- (i) Administrative expenses;
  - (ii) Commissions, asset fees, or custody fees;
  - (iii) Partnership or organizational expenses;
  - (iv) Pass-through expenses; and
  - (v) The portion of the Department of State Treasurer’s administrative costs attributable to and charged to the investment portfolio or investment fund.
- (6) “Investment manager” means a person or entity, other than Department of State Treasurer employees, given authority or discretion by the State Treasurer to make decisions concerning State Treasurer investments.
- (7) “Placement fee” or “placement agent fee” means a net fee, after any offsets, (i) to a placement agent or (ii) to any other entity, other than the investment manager itself or one of its employees or affiliates, that an investment manager directly or indirectly engaged in order to obtain investment from the State Treasurer.
- (8) “Rate of return” refers to the time-weighted return of each period shown, with adjustments made for cash inflows and outflows to limit distorting effects. Periods of greater than one year are annualized. All returns shown are net of all investment manager fees and all related State Treasurer expenses.
- (9) “State Treasurer investments” shall mean all investments of any kind by the Treasurer of the State of North Carolina or Department of State Treasurer, including but not limited to securities held directly, securities held in separate accounts pursuant to third-party investment management agreements, interests in limited liability investment vehicles or other investment companies as defined under generally accepted United States accounting principles as promulgated by the Financial Accounting Standards Board.
- (10) “Website portal delivery” means a secure method of accessing messages on a website portal set up by the Department of State Treasurer.