



STATE TREASURER OF NORTH CAROLINA DALE R. FOLWELL, CPA

## INVESTMENT MANAGEMENT DIVISION

## Performance Review

May 25, 2022



6,000 -

100

90

80

Mar-17

Dec-17

**Recession Periods - United States** 

Sep-18

May-19

— Composite Series: Index Numbers, 1985=100, Consumer Confidence Index - United States

Feb-20

Oct-20

Jul-21

500

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- 16%

5%

4%

3%

2%

1%

0%

- 150

140

130

120

110

100

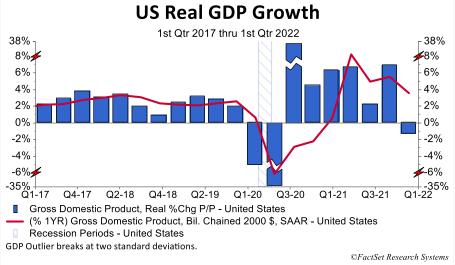
90

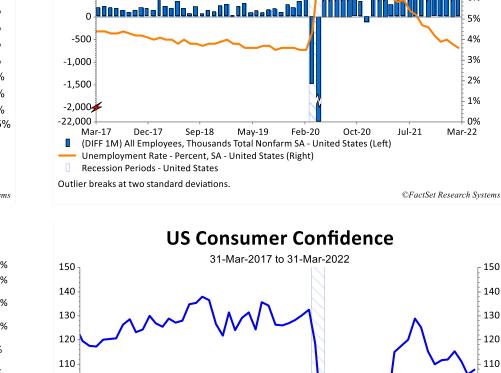
80

Mar-22

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#### **US Economic Environment**





**US Change in NonFarm Employment & Unemployment Rate** 

31-Mar-2017 to 31-Mar-2022

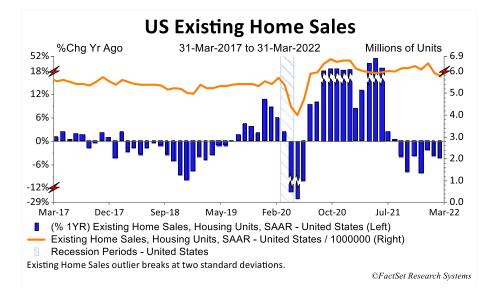


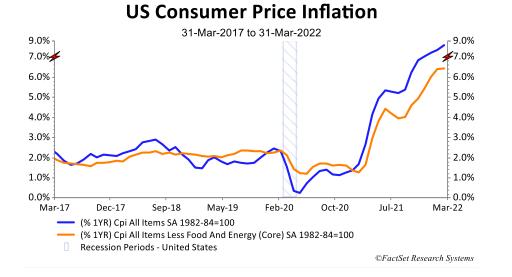
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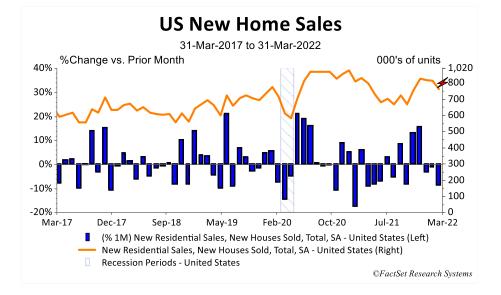


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#### **US Economic Environment**







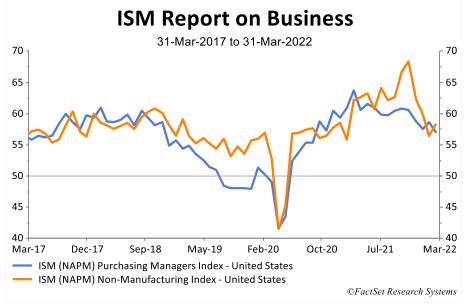


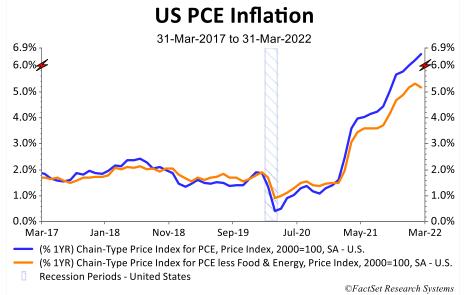
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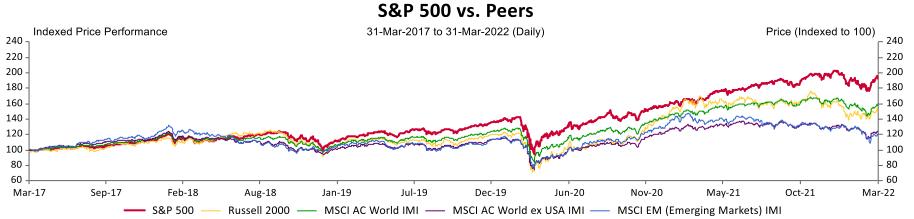


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#### **US and Global Economic Environment**





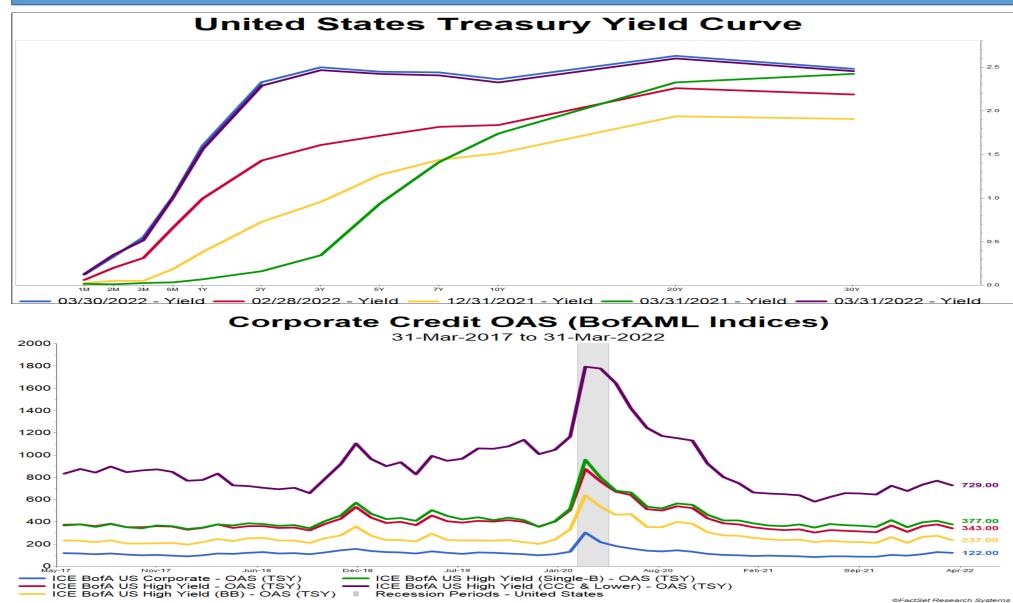


Source: FactSet Prices





#### **Market Environment**

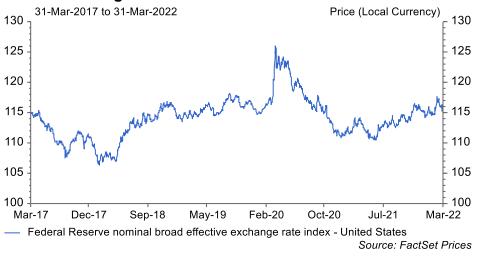


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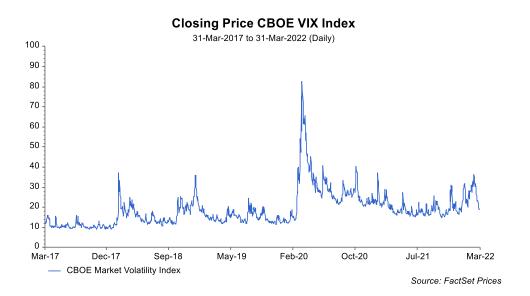


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#### **Market Environment**



#### Closing Price Fed Nominal Broad Dollar Index

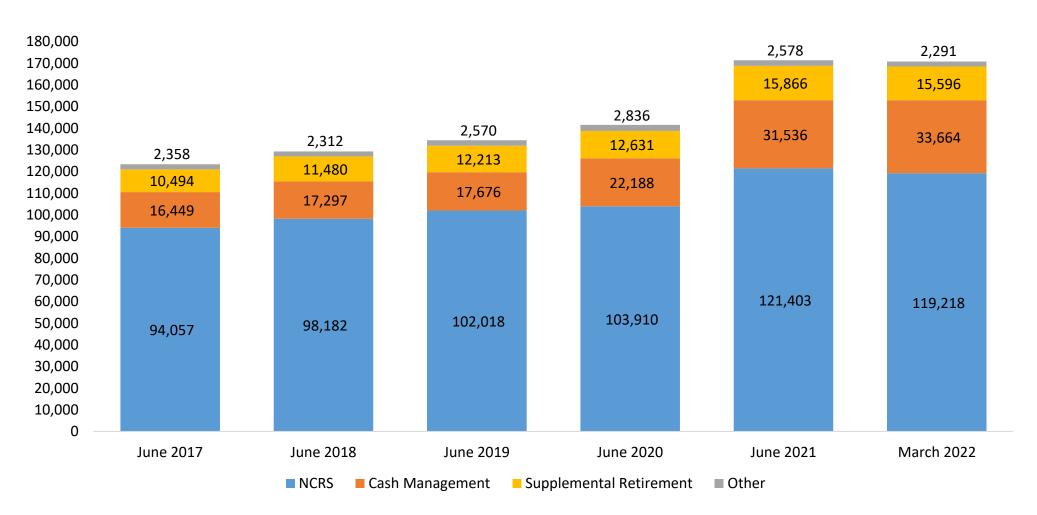


|           | Real G | DP YoY            | Unempl | oyment | CPI   | YoY   |               | Real G | DP YoY | Unemp | oyment | <u>CPI</u> | YoY   |
|-----------|--------|-------------------|--------|--------|-------|-------|---------------|--------|--------|-------|--------|------------|-------|
| Countries | Date   | Value             | Date   | Value  | Date  | Value | Countries     | Date   | Value  | Date  | Value  | Date       | Value |
| U.S.      | 03/22  | 3.6               | 03/22  | 3.6    | 03/22 | 8.5   | Asia/Pacific, | /Latam |        |       |        |            |       |
| Europe    |        |                   |        |        |       |       | China         | 03/22  | 4.8    |       |        | 03/22      | 1.5   |
| Germany   | 03/22  | 3.7               | 03/22  | 5.0    | 03/22 | 7.3   | India         | 12/21  | 5.4    |       |        | 03/22      | 5.4   |
| France    | 03/22  | 5.3               | 03/22  | 7.4    | 03/22 | 4.5   | Japan         | 12/21  | 0.4    | 03/22 | 2.6    | 03/22      | 1.2   |
| U.K.      | 12/21  | 6.6               | 02/22  | 3.8    | 03/22 | 7.0   | Indonesia     | 12/21  | 5.0    |       |        | 03/22      | 2.6   |
| Italy     | 03/22  | 5.8               | 03/22  | 8.3    | 03/22 | 6.5   | Brazil        | 12/21  | 1.6    |       |        | 03/22      | 11.3  |
| Spain     | 03/22  | 6. <mark>4</mark> | 03/22  | 13.5   | 03/22 | 9.8   | Australia     | 12/21  | 4.2    | 03/22 | 4.0    | 03/22      | 5.1   |



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## Assets Under Management (\$MM) \$170.8 billion as of March 31, 2022



Note: The Cash Management Program does not include Assets with Fiscal Agent, which are reflected in the Bond Proceeds Fund. These funds, which may have been reported in the Cash Management Program previously, have now been removed for all years shown in this report to more accurately reflect the Cash Management Program balance.

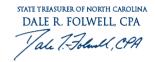


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## NCRS Asset Allocation As of March 31, 2022

|                                    | Market Value (\$MM)    | %       | Target    | Ra    | nge     | Polotivo % | Relative \$ (\$MM)   |
|------------------------------------|------------------------|---------|-----------|-------|---------|------------|----------------------|
|                                    | warket value (Şivilvi) | 70      | 76 Taiget |       | Maximum | Relative % | Relative ș (șivilvi) |
| Growth                             | 58,646                 | 49.19%  | 58.0%     | 37.0% | 71.0%   | -8.81%     | (10,501)             |
| Public Equity                      | 41,245                 | 34.60%  | 42.0%     | 37.0% | 47.0%   | -7.40%     | (8,827)              |
| Private Equity                     | 7,499                  | 6.29%   | 6.0%      | 0.0%  | 8.8%    | 0.29%      | 346                  |
| Non Core Real Estate               | 2,662                  | 2.23%   | 3.0%      | 0.0%  | 8.0%    | -0.77%     | (915)                |
| Opportunistic Fixed Income         | 7,240                  | 6.07%   | 7.0%      | 0.0%  | 7.5%    | -0.93%     | (1,105)              |
| Rates & Liquidity                  | 46,170                 | 38.73%  | 29.0%     | 24.0% | 42.0%   | 9.73%      | 11,597               |
| IG Fixed Income & Cash             | 31,517                 | 26.44%  | 28.0%     | 24.0% | 32.0%   | -1.56%     | (1,864)              |
| Pension Cash                       | 14,653                 | 12.29%  | 1.0%      | 0.0%  | 10.0%   | 11.29%     | 13,461               |
| Inflation Sensitive & Diversifiers | 12,100                 | 10.15%  | 11.0%     | 4.0%  | 16.0%   | -0.85%     | (1,014)              |
| Inflation Sensitive                | 5,512                  | 4.62%   | 6.0%      | 2.0%  | 7.5%    | -1.38%     | (1,641)              |
| Core Real Estate                   | 6,588                  | 5.53%   | 5.0%      | 2.0%  | 10.0%   | 0.53%      | 627                  |
| Multi-Strategy                     | 2,302                  | 1.93%   | 2.0%      | 0.0%  | 4.0%    | -0.07%     | (82)                 |
| Grand Total                        | 119,218                | 100.00% |           |       |         |            |                      |

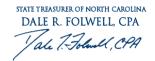




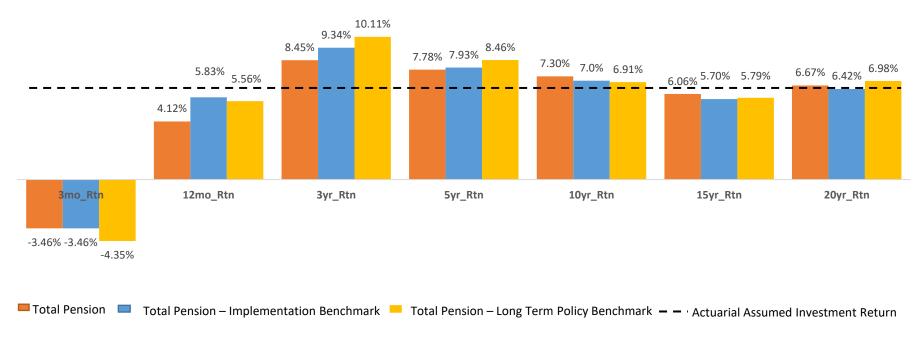
## NCRS Asset Allocation (Unaudited) As of May 17, 2022

|                                    |                     | %       | Torget | Ra      | nge     | Deletive % | Relative \$ (\$MM) |  |
|------------------------------------|---------------------|---------|--------|---------|---------|------------|--------------------|--|
|                                    | Market Value (\$MM) | 70      | Target | Minimum | Maximum | Relative % |                    |  |
| Growth                             | 54,004              | 47.66%  | 58.0%  | 37.0%   | 71.0%   | -10.34%    | (11,719)           |  |
| Public Equity                      | 37,177              | 32.81%  | 42.0%  | 37.0%   | 47.0%   | -9.19%     | (10,416)           |  |
| Private Equity                     | 7,242               | 6.39%   | 6.0%   | 0.0%    | 8.8%    | 0.39%      | 443                |  |
| Non Core Real Estate               | 2,566               | 2.26%   | 3.0%   | 0.0%    | 8.0%    | -0.74%     | (834)              |  |
| Opportunistic Fixed Income         | 7,020               | 6.19%   | 7.0%   | 0.0%    | 7.5%    | -0.81%     | (912)              |  |
| Rates & Liquidity                  | 44,973              | 39.69%  | 29.0%  | 24.0%   | 42.0%   | 10.69%     | 12,111             |  |
| IG Fixed Income & Cash             | 30,036              | 26.51%  | 28.0%  | 24.0%   | 32.0%   | -1.49%     | (1,693)            |  |
| Pension Cash                       | 14,937              | 13.18%  | 1.0%   | 0.0%    | 10.0%   | 12.18%     | 13,804             |  |
| Inflation Sensitive & Diversifiers | 12,104              | 10.68%  | 11.0%  | 4.0%    | 16.0%   | -0.32%     | (361)              |  |
| Inflation Sensitive                | 5,557               | 4.90%   | 6.0%   | 2.0%    | 7.5%    | -1.10%     | (1,242)            |  |
| Core Real Estate                   | 6,547               | 5.78%   | 5.0%   | 2.0%    | 10.0%   | 0.78%      | 881                |  |
| Multi-Strategy                     | 2,235               | 1.97%   | 2.0%   | 0.0%    | 4.0%    | -0.03%     | (31)               |  |
| Grand Total                        | 113,317             | 100.00% |        |         |         |            |                    |  |





#### NCRS Total Net Portfolio Return vs. Benchmarks As of March 31, 2022



**Annualized Returns** 

#### Notes:

Actuarial Assumed Investment Return was lowered from 7.0% to 6.5% as of December 31, 2020

Returns for periods greater than one year are annualized.

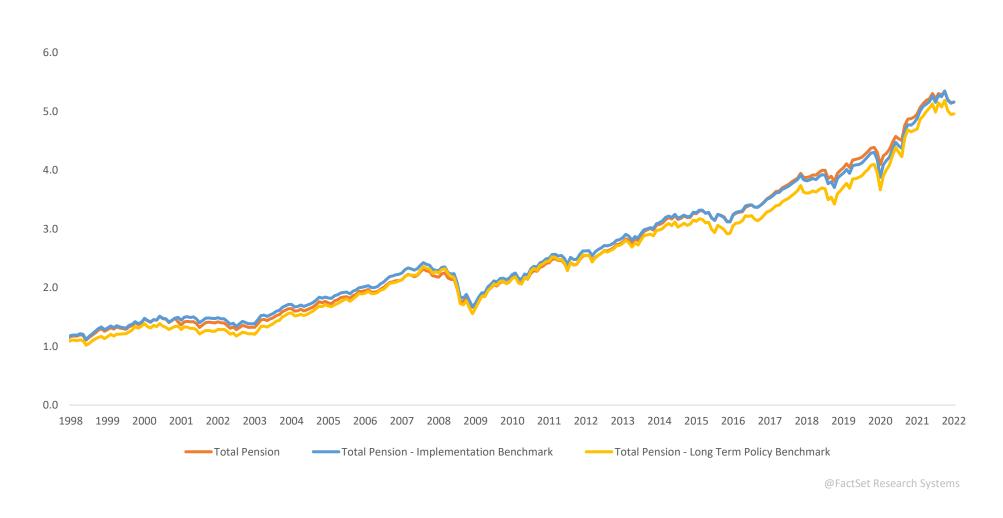
Implementation Benchmark is a blend of the Asset Class Benchmarks at policy weights. It is currently weighted as follows: 58% Growth Benchmark; 29% Rates & Liquidity Benchmark; 11% Inflation Sensitive & Diversifiers Benchmark; and 2% Multi-Strategy Benchmark. Long-Term Policy Benchmark is comprised of 57% MSCI ACWI IMI Net; 33% BOAML 5+ Years U.S. Treasury Index; 6% Bloomberg Commodity Index; and 4% BOAML 1-3 Years U.S. Inflation-Linked Treasury Index.



#### **Investment Management Division**

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#### Growth of a Dollar Through March 31, 2022



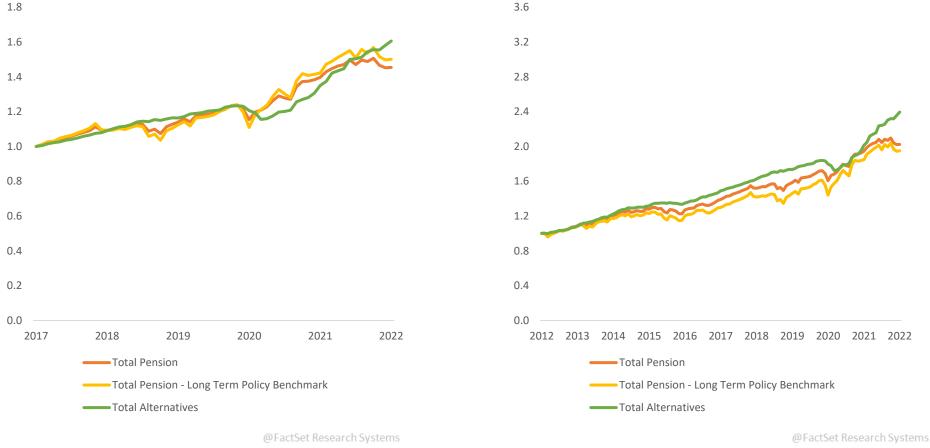
#### Notes:

*Long-Term Policy Benchmark* is comprised of 57% MSCI ACWI IMI Net; 33% BOAML 5+ Years U.S. Treasury Index; 6% Bloomberg Commodity Index; and 4% BOAML 1-3 Years U.S. Inflation-Linked Treasury Index.





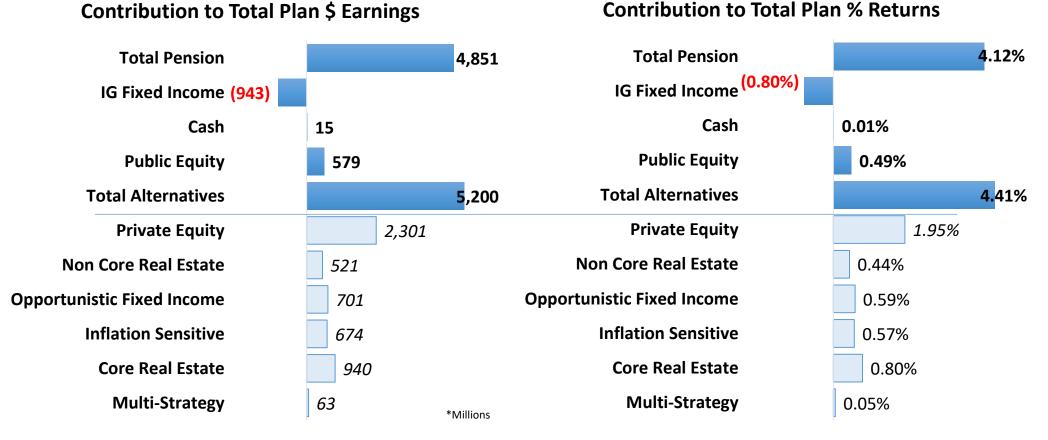
# Growth of a Dollar5 Years Ending March 31, 202210 Years Ending March 31, 20223.6



Note: NCRS Alternatives includes the following: Core Real Estate; Inflation Sensitive – Private Natural Resources; Inflation Sensitive – Real Assets and Other Diversifiers; Multi-Strategy Investments; Non-Core Real Estate; Opportunistic Fixed Income; Private Equity; Equity Hedge Strategies; and closed-end Public Natural Resource funds.



#### Estimated Contribution to Total Plan Return – 1 Year As of March 31, 2022



#### Notes:

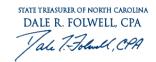
1.) Estimated Contributions are based on average market value and the total return for the period.

Contribution to Total Plan \$ Earnings = Average \$ Market Value \* % Total Return for each asset class

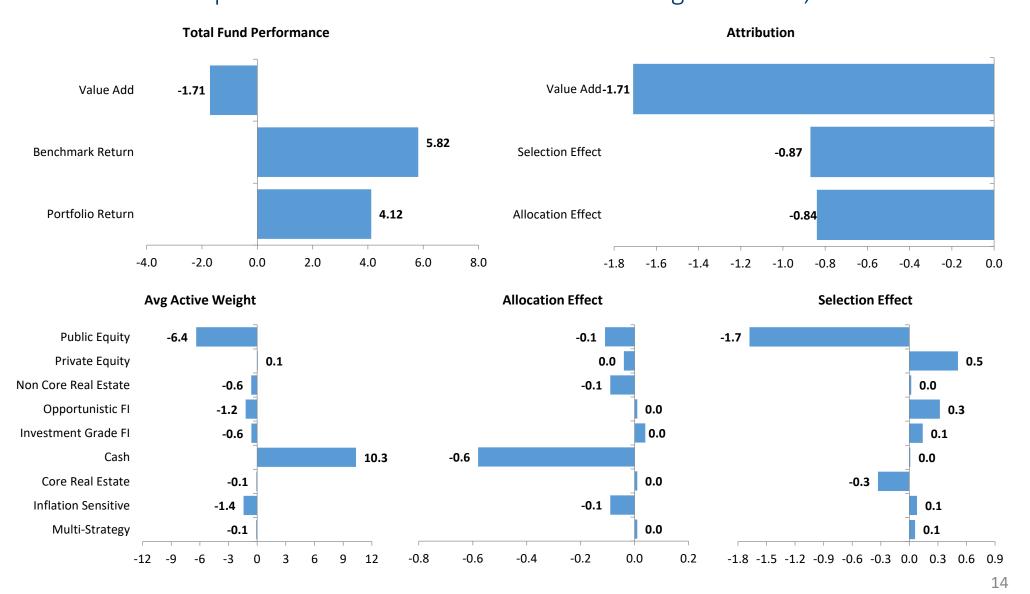
Contribution to Total Plan % Returns = Average Market Value % weight \* % Total Return for each asset class

2.) Alternatives for this analysis include the following: Private Equity, Non-Core Real Estate, Opportunistic Fixed Income, Inflation Sensitive, Core Real Estate, and Multi-Strategy investments.

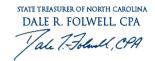




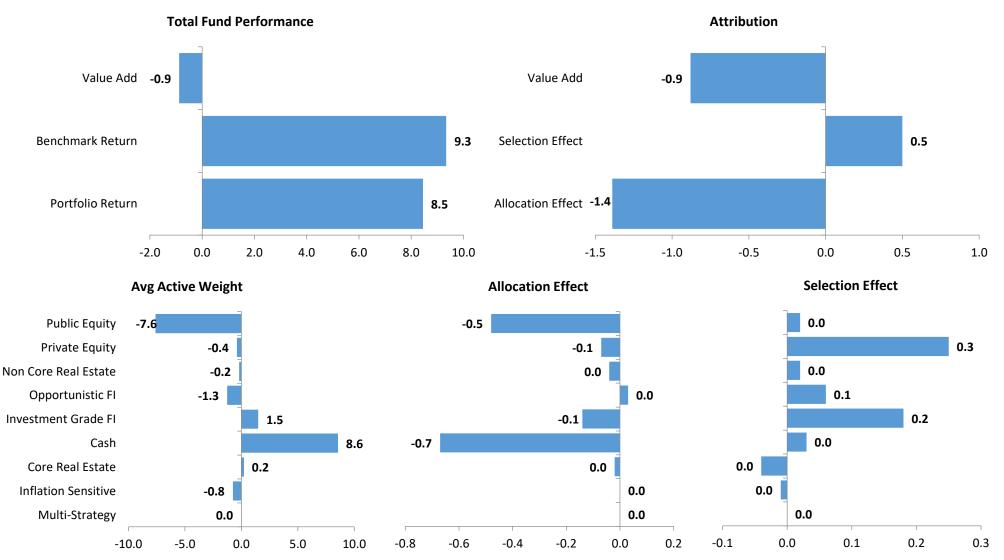
#### NCRS Net of Fees Return Attribution Total Fund vs. Implementation Benchmark: 1 Year Ending March 31, 2022







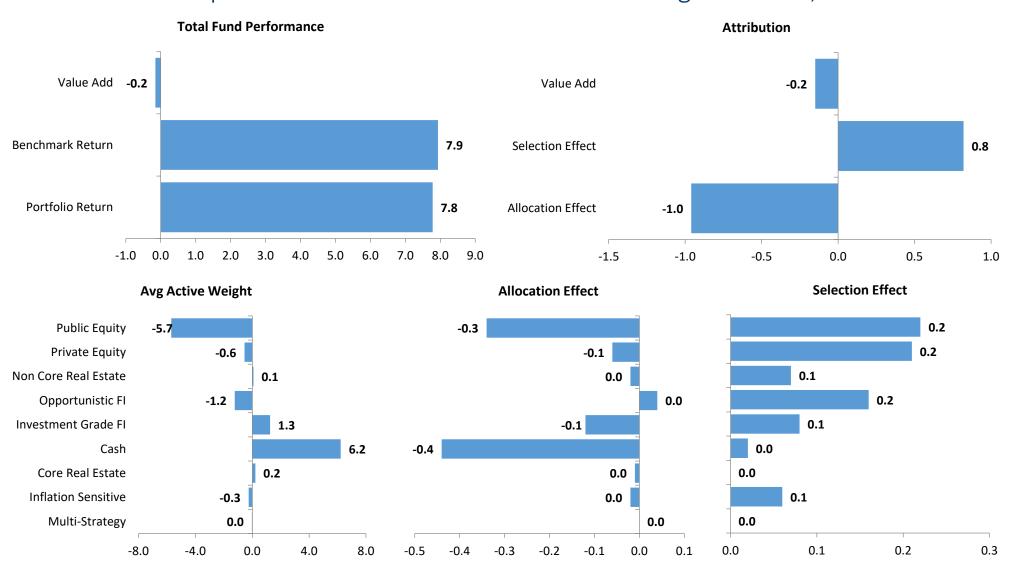
#### NCRS Net of Fees Return Attribution Total Fund vs. Implementation Benchmark: 3 Years Ending March 31, 2022





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#### NCRS Net of Fees Return Attribution Total Fund vs. Implementation Benchmark: 5 Years Ending March 31, 2022

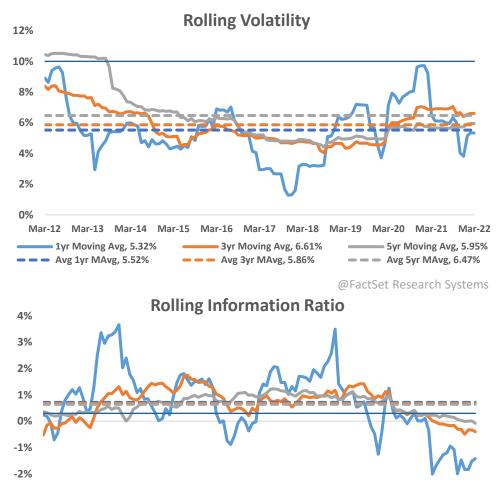




-3%

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## NCRS Net of Fees Risk Metrics As of March 31, 2022



• 3yr Moving Avg, -0.40%

--- Avg 3yr MAvg, 0.68%

Mar-19

Mar-20 Mar-21 Mar-22

--- Avg 5yr MAvg, 0.64%

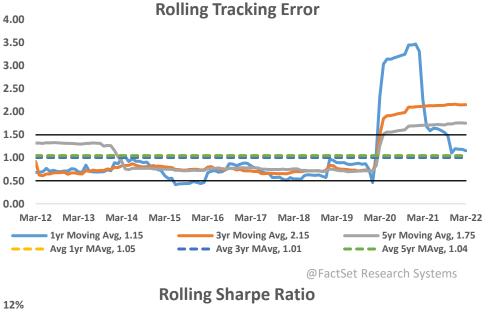
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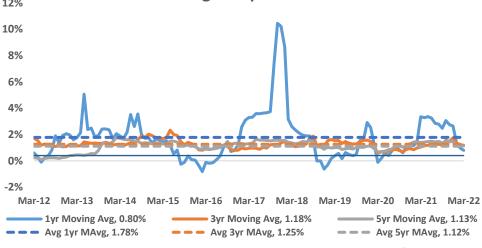
= 5yr Moving Avg, -0.08%

Mar-12 Mar-13 Mar-14 Mar-15 Mar-16 Mar-17 Mar-18

1yr Moving Avg, -1.42%

--- Avg 1yr MAvg, 0.72%





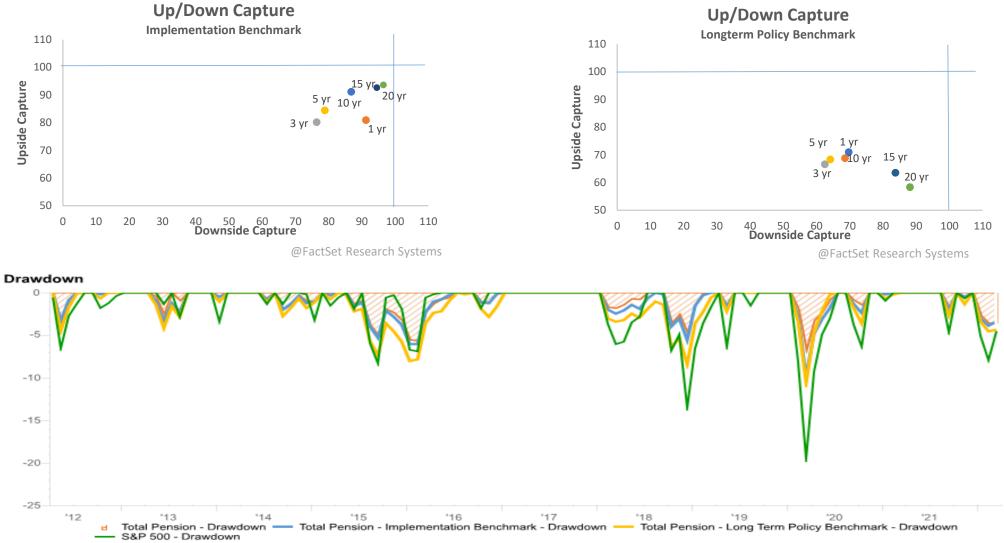
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#### **Investment Management Division**

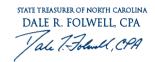
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### NCRS Net of Fees Risk Metrics As of March 31, 2022



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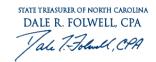


## NCRS Gross of Fees Return and Risk BNY Mellon Universe: US Public Funds > \$20B; Data as of March 31, 2022

| Returns                                      | 1 Year | 3 Years | 5 Years | 10 Years | 15 Years | 20 Years |
|--|--------|---------|---------|----------|----------|----------|
| 25th Percentile                              | 13.08  | 13.08   | 11.01   | 9.68     | 7.22     | 8.07     |
| Median Percentile                            | 10.55  | 12.51   | 10.67   | 9.27     | 7.08     | 7.92     |
| 75th Percentile                              | 8.44   | 11.57   | 10.14   | 8.77     | 6.67     | 7.51     |
| NCRS   | 4.44   | 8.78    | 8.20    | 7.81     | 6.53     | 7.05     |
| Percentile Rank<br>(1 = highest performance) | 94     | 94      | 88      | 82       | 88       | 87       |

| Risk                                  | 1 Year | 3 Years | 5 Years | 10 Years | 15 Years | 20 Years |
|---------------------------------------|--------|---------|---------|----------|----------|----------|
| 25th Percentile                       | 7.16   | 9.62    | 8.45    | 7.49     | 9.62     | 9.30     |
| Median Percentile                     | 6.03   | 8.28    | 7.41    | 6.69     | 9.09     | 8.54     |
| 75th Percentile                       | 5.37   | 7.62    | 6.67    | 5.94     | 8.21     | 8.05     |
| NCRS                                  | 5.11   | 6.53    | 5.90    | 5.52     | 7.50     | 7.20     |
| Percentile Rank<br>(1 = highest risk) | 94     | 94      | 94      | 94       | 88       | 94       |





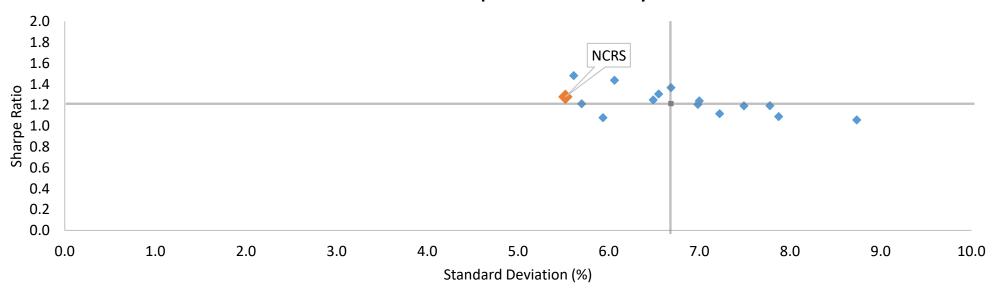
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## NCRS Gross of Fees Sharpe Ratio

#### BNY Mellon Universe: US Public Funds > \$20B; Data as of March 31, 2022

| Sharpe                                       | 1 Year | 3 Years | 5 Years | 10 Years | 15 Years | 20 Years |
|--|--------|---------|---------|----------|----------|----------|
| 25th Percentile                              | 2.13   | 1.40    | 1.33    | 1.30     | 0.77     | 0.82     |
| Median Percentile                            | 1.73   | 1.27    | 1.18    | 1.21     | 0.72     | 0.81     |
| 75th Percentile                              | 1.15   | 1.15    | 1.05    | 1.12     | 0.66     | 0.72     |
| NCRS   | 0.86   | 1.20    | 1.18    | 1.28     | 0.77     | 0.81     |
| Percentile Rank<br>(1 = highest performance) | 94     | 63      | 50      | 32       | 13       | 47       |

10 Year Plot: Sharpe Ratio vs. Volatility

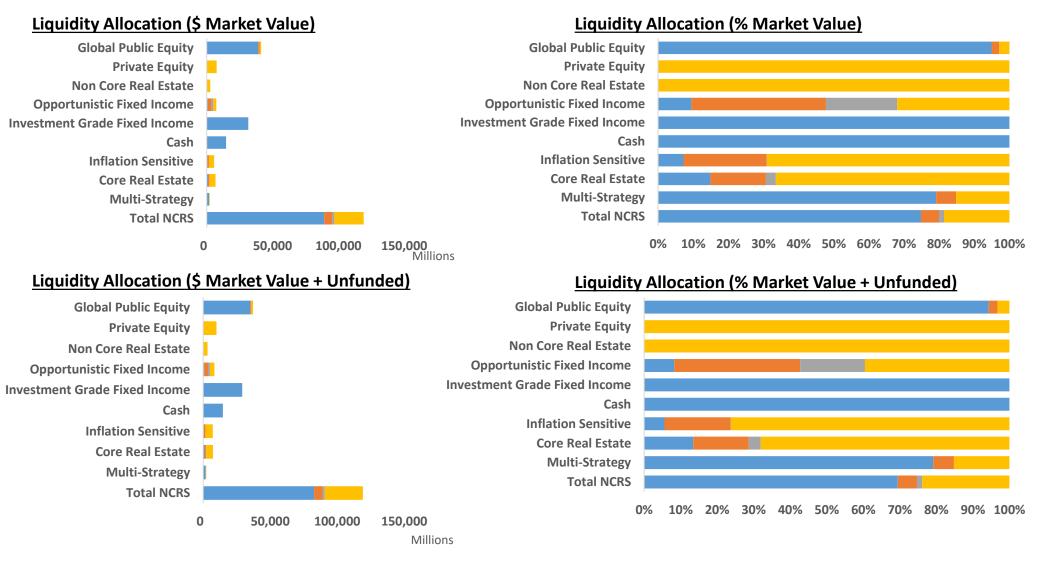


Note: Data shown is gross of fees with the exception of incentive payments, which have been deducted from NAV when applicable.



#### **Investment Management Division**

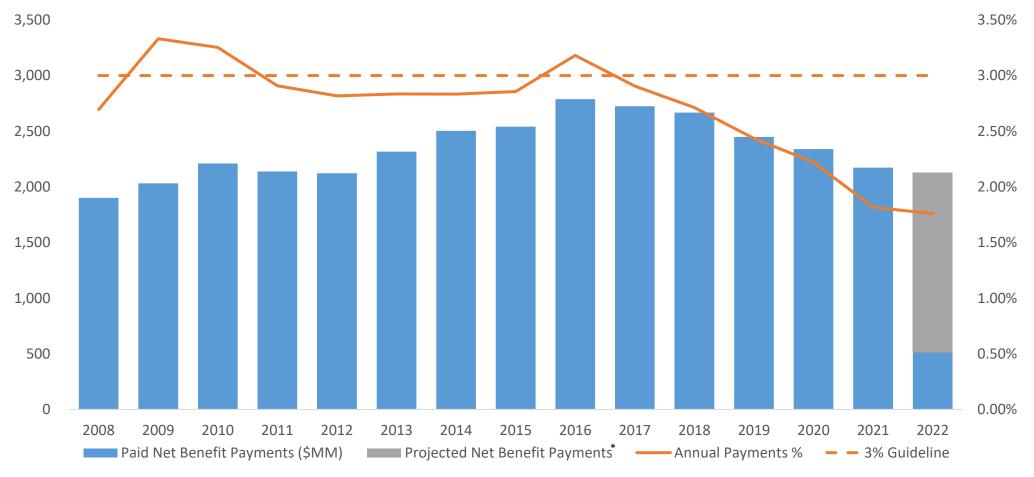
#### NCRS Liquidity Profile As of March 31, 2022





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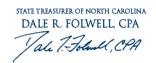
## NCRS Liquidity Profile Net benefit payments by calendar year



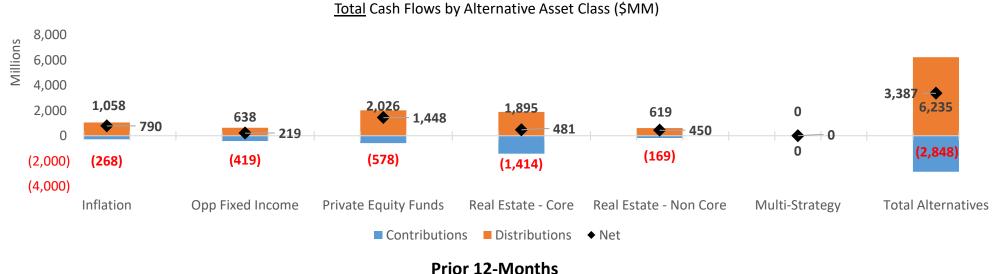
<sup>\*</sup>Net benefit payments through April 30, 2022



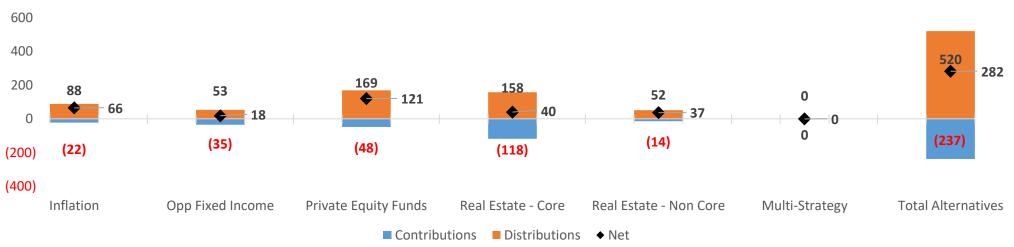
**Investment Management Division** 



#### NCRS Alternatives Liquidity Profile Through March 31, 2022 Prior 12-Months



Average Monthly Cash Flows by Alternative Asset Class (\$MM)

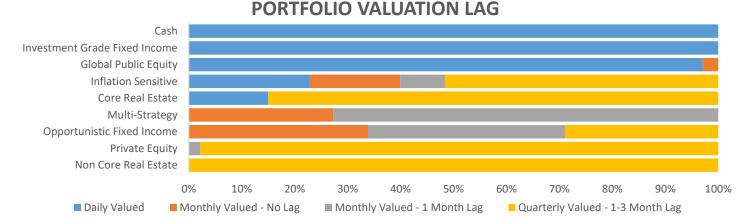




#### **Investment Management Division**

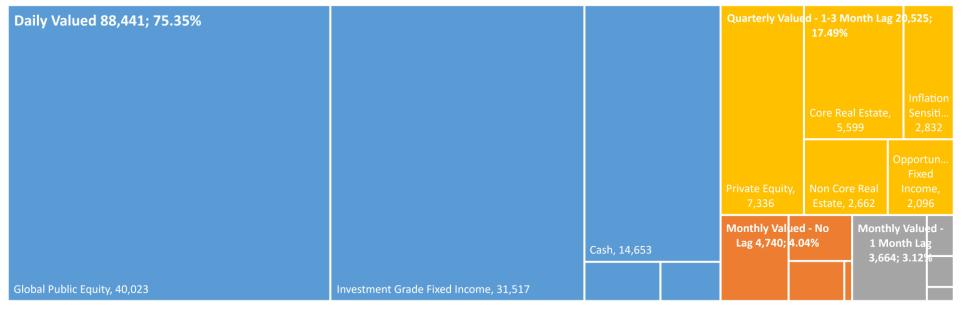
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## NCRS Valuation Lag Profile As of March 31, 2022



#### VALUATION LAG BY PORTFOLIO

in Millions





## NCRS Asset Class Net of Fees Performance As of March 31, 2022

|  | Market Value (\$MM) | 1 Year | 3 Years | 5 Years | 10 Years | 15 Years | 20 Years |
|--|---------------------|--------|---------|---------|----------|----------|----------|
| Growth                                   | \$58,646            | 7.16   | 13.94   | 12.08   | 10.64    | 7.04     | 7.50     |
| Benchmark <sup>1</sup>                   |                     | 8.79   | 13.41   | 10.93   | 9.53     | 6.20     | 6.91     |
| Public Equity                            | \$41,245            | 1.54   | 13.55   | 11.76   | 10.41    | 7.00     | 7.46     |
| Benchmark <sup>2</sup>                   |                     | 6.26   | 13.40   | 11.13   | 9.77     | 6.32     | 6.85     |
| Private Equity                           | \$7,499             | 35.59  | 25.31   | 20.62   | 14.84    | 11.14    | 9.37     |
| Benchmark <sup>3</sup>                   |                     | 25.13  | 20.37   | 16.45   | 13.33    | 10.64    | 11.83    |
| Non-Core Real Estate                     | \$2,662             | 20.15  | 9.97    | 10.88   | 12.16    | 5.48     | 6.83     |
| Benchmark <sup>4</sup>                   |                     | 18.82  | 9.15    | 8.82    | 8.92     | 3.40     | 7.38     |
| <b>Opportunistic Fixed Income</b>        | \$7,240             | 10.91  | 7.87    | 6.86    | 7.05     | 6.66     | -        |
| Benchmark <sup>5</sup>                   |                     | 5.18   | 6.70    | 4.01    | 3.30     | 1.50     | -        |
| Rates & Liquidity                        | \$46,170            | -2.16  | 2.51    | 2.71    | 2.91     | 4.64     | 5.17     |
| Benchmark <sup>6</sup>                   |                     | -3.61  | 1.99    | 2.52    | 2.80     | 4.38     | 4.94     |
| IG Fixed Income                          | \$31,517            | -3.23  | 2.61    | 2.84    | 3.00     | 4.71     | 5.22     |
| Benchmark <sup>7</sup>                   |                     | -3.74  | 2.03    | 2.57    | 2.85     | 4.41     | 4.96     |
| Cash                                     | \$14,653            | 0.12   | 0.95    | 1.24    | -        | -        | -        |
| Benchmark <sup>8</sup>                   |                     | 0.00   | 0.67    | 1.02    | -        | -        | -        |
| Inflation Sensitive & Diversifiers       | \$12,100            | 15.15  | 7.00    | 6.65    | 5.06     | 2.71     | 4.55     |
| Benchmark <sup>9</sup>                   |                     | 17.23  | 7.26    | 6.08    | 4.97     | 1.99     | 4.39     |
| Inflation Sensitive                      | \$5,512             | 13.33  | 5.27    | 5.05    | 2.21     | 1.00     | 3.59     |
| Benchmark <sup>10</sup>                  |                     | 11.52  | 5.26    | 4.05    | 1.34     | 2.13     | 4.24     |
| Core Real Estate                         | \$6,588             | 16.83  | 8.75    | 8.40    | 8.98     | 5.69     | 6.80     |
| Benchmark <sup>11</sup>                  |                     | 24.30  | 9.59    | 8.49    | 9.56     | 5.97     | 7.43     |
| Multi-Strategy                           | \$2,302             | 3.07   | 3.16    | 3.79    | 5.87     | 4.79     | -        |
| Benchmark <sup>12</sup>                  |                     | 0.09   | 2.98    | 3.58    | 5.32     | 4.20     | -        |
| Total Pension Plan                       | \$119,218           | 4.12   | 8.45    | 7.78    | 7.30     | 6.06     | 6.67     |
| Implementation Benchmark <sup>13</sup>   |                     | 5.83   | 9.34    | 7.93    | 7.00     | 5.70     | 6.42     |
| Long-Term Policy Benchmark <sup>14</sup> |                     | 5.56   | 10.11   | 8.46    | 6.91     | 5.79     | 6.98     |



#### NCRS Calendar Year Asset Class Return Diversification As of March 31, 2022

| 2013                                    | 2014                                   | 2015                                     | 2016                                   | 2017                                   | 2018                                   | 2019                                   | 2020                                   | 2021                                    | 2022 YTD                               |
|---|--|--|--|--|--|--|--|---|--|
| Public Equity<br>26.27%                 | Non-Core Real<br>Estate<br>19.45%      | Non-Core Real<br>Estate<br>14.84%        | Non-Core Real<br>Estate<br>11.73%      | Public Equity<br>24.44%                | Private Equity<br>18.32%               | Public Equity<br>27.91%                | Public Equity<br>22.23%                | Private Equity<br>48.03%                | Non-Core Real<br>Estate<br>5.76%       |
| Multi-Strategy<br>22.61%                | Private Equity<br>14.02%               | Private Equity<br>9.20%                  | Public Equity<br>7.33%                 | Multi-Strategy<br>13.58%               | Non-Core Real<br>Estate<br>13.32%      | Total Pension<br>14.88%                | Private Equity<br>18.86%               | Opportunistic<br>Fixed Income<br>17.46% | Core Real Estate<br>4.78%              |
| Opportunistic<br>Fixed Income<br>16.56% | Core Real Estate<br>10.41%             | Core Real Estate<br>8.28%                | Inflation<br>Sensitive<br>7.19%        | Total Pension<br>13.53%                | Inflation<br>Sensitive<br>6.88%        | Multi-Strategy<br>14.82%               | Total Pension<br>11.30%                | Non-Core Real<br>Estate 16.75%          | Inflation<br>Sensitive<br>4.41%        |
| Non-Core Real<br>Estate<br>12.88%       | IG Fixed Income<br>& Cash<br>8.51%     | Multi-Strategy<br>0.85%                  | Opportunistic<br>Fixed Income<br>7.09% | Non-Core Real<br>Estate<br>12.40%      | Opportunistic<br>Fixed Income<br>5.69% | Core Real Estate<br>10.71%             | IG Fixed Income<br>& Cash<br>9.34%     | Public Equity<br>14.51%                 | Private Equity<br>3.65%                |
| Total Pension<br>12.28%                 | Total Pension<br>6.19%                 | Pension Cash<br>0.58%                    | Core Real Estate<br>6.68%              | Private Equity<br>11.95%               | Core Real Estate<br>5.67%              | IG Fixed Income<br>& Cash<br>10.33%    | Opportunistic<br>Fixed Income<br>2.85% | Core Real Estate<br>14.51%              | Opportunistic<br>Fixed Income<br>1.03% |
| Private Equity<br>11.72%                | Public Equity<br>3.68%                 | Total Pension<br>0.29%                   | Total Pension<br>6.26%                 | Core Real Estate<br>10.12%             | Pension Cash<br>1.88%                  | Non-Core Real<br>Estate<br>9.93%       | Pension Cash<br>1.06%                  | Inflation<br>Sensitive<br>11.97%        | Pension Cash<br>0.03%                  |
| Core Real Estate<br>11.28%              | Opportunistic<br>Fixed Income<br>3.40% | IG Fixed Income<br>& Cash<br>0.28%       | Private Equity<br>6.05%                | Inflation<br>Sensitive<br>7.53%        | IG Fixed Income<br>& Cash<br>(0.57%)   | Private Equity<br>8.15%                | Non-Core Real<br>Estate<br>0.45%       | Total Pension<br>9.71%                  | Multi-Strategy<br>(1.74%)              |
| Inflation<br>Sensitive<br>(1.32%)       | Multi-Strategy<br>2.69%                | Public Equity<br>(1.26%)                 | Multi-Strategy<br>6.00%                | Opportunistic<br>Fixed Income<br>7.05% | Total Pension<br>(1.47%)               | Opportunistic<br>Fixed Income<br>3.61% | Core Real Estate<br>(0.13%)            | Multi-Strategy<br>7.74%                 | Total Pension<br>(3.46%)               |
| IG Fixed Income<br>& Cash<br>(3.49%)    | Pension Cash<br>0.45%                  | Opportunistic<br>Fixed Income<br>(2.61%) | IG Fixed Income<br>& Cash<br>3.24%     | IG Fixed Income<br>& Cash<br>4.42%     | Multi-Strategy<br>(4.79%)              | Pension Cash<br>2.20%                  | Inflation<br>Sensitive<br>(3.50%)      | Pension Cash<br>0.15%                   | IG Fixed Income<br>& Cash<br>(5.53%)   |
|   | Inflation<br>Sensitive<br>(0.65%)      | Inflation<br>Sensitive<br>(9.05%)        | Pension Cash<br>0.98%                  | Pension Cash<br>1.12%                  | Public Equity<br>(9.32%)               | Inflation<br>Sensitive<br>2.09%        | Multi-Strategy<br>(4.13%)              | IG Fixed Income<br>& Cash (1.84%)       | Public Equity<br>(7.67%)               |

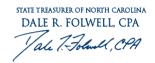


#### New, Incremental, & Unfunded Investment Commitments Since February 23<sup>rd</sup> IAC Meeting As of March 31, 2022

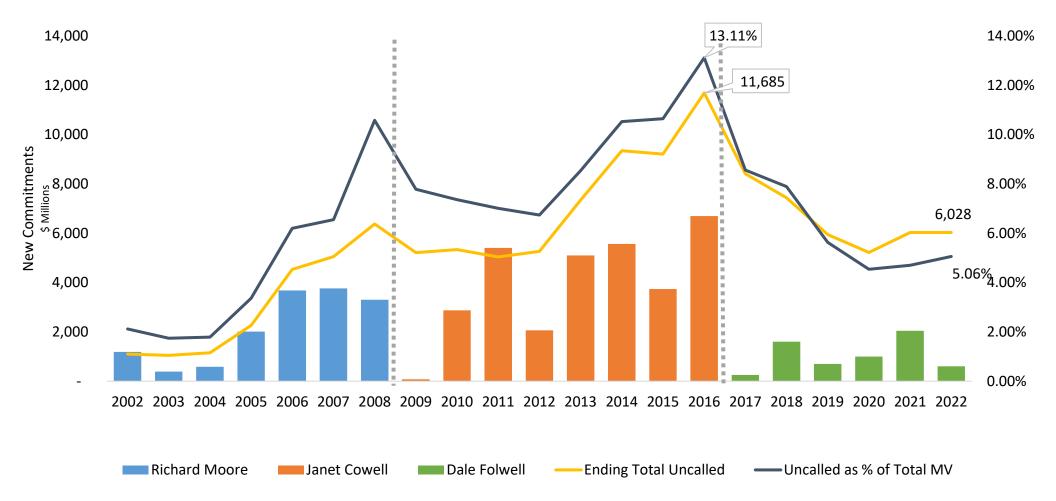
| Fund Name                   | Firm Name              | <u>New or Incremental</u><br>Commitment (\$MM) | <u>Closing</u><br><u>Date</u> |
|-----------------------------|------------------------|--|-------------------------------|
| Public Equity               |                        |  |                               |
| US Core Factor              | Internal               | 100  | 2/25                          |
| ValueAct Opp                | ValueAct Capital Ptnrs | 200  | 5/1                           |
| Private Equity              |                        |  |                               |
| HG Saturn 3                 | HG Capital             | 200  | 3/25                          |
| Non-Core Real Estate        |                        |  |                               |
| TPG Real Estate Partners IV | TPG Capital            | 200  | 4/29                          |
| Opportunistic Fixed Income  |                        |  |                               |
| Blue Sky Credit Fund        | BC Partners            | 400  | 4/25                          |
| Inflation Sensitive         |                        |  |                               |
| None                        |                        |  |                               |
| Core Real Estate            |                        |  |                               |
| None                        |                        |  |                               |
| Multi-Strategy              |                        |  |                               |
| None                        |                        |  |                               |

| Asset Class                | <u>Unfunded</u><br>Commitments (\$MM) |
|----------------------------|---------------------------------------|
| Public Equity              | 0                                     |
| Private Equity             | 2,377                                 |
| Non-Core Real Estate       | 608                                   |
| Opportunistic Fixed Income | 669                                   |
| Inflation Sensitive        | 1,675                                 |
| Core Real Estate           | 699                                   |
| Multi Strategy             | 0                                     |
| Total                      | 6,028                                 |





#### New and Total Unfunded Private Asset Class Commitments By Calendar Year of Closing through March 31<sup>st</sup>

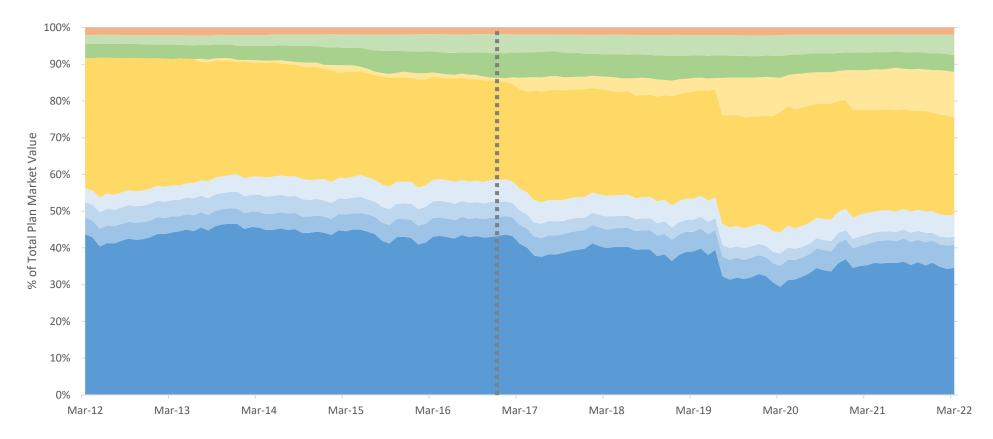




#### **Investment Management Division**

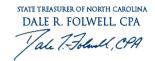
STATE TREASURER OF NORTH CAROLINA DALE R. FOLWELL, CPA Tale 7. Folimet, CPA

## Asset Allocation History as of March 31, 2022



Public Equity Private Equity Non-Core RE Opp FI - IG Fixed Cash Inflation Sens. Core RE Multi-Strat

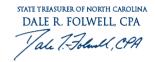




## Exited Investments Since February 23<sup>rd</sup> IAC Meeting

| Fund Name                  | Redemption Amount (\$MM) | Redemption Effective |
|----------------------------|--------------------------|----------------------|
| Public Equity              |                          |                      |
| None                       |                          |                      |
| Private Equity             |                          |                      |
| None                       |                          |                      |
| Non-Core Real Estate       |                          |                      |
| None                       |                          |                      |
| Opportunistic Fixed Income |                          |                      |
| None                       |                          |                      |
| Inflation Sensitive        |                          |                      |
| None                       |                          |                      |
| Core Real Estate           |                          |                      |
| None                       |                          |                      |
| Multi Strategy             |                          |                      |
| None                       |                          |                      |



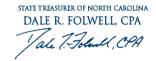


## Top 20 Investment Managers As of March 31, 2022

|     | <b>N</b> <i>A</i> = =                |                   |               | 0/ 8 4) / |           |
|-----|--------------------------------------|-------------------|---------------|-----------|-----------|
|     | Manager                              | Market Value (\$) | Uncalled (\$) | % MV      | % MV Cum. |
| 1   | Internal Fixed Income                | 46,170,230,418    | -             | 38.7%     | 38.7%     |
| 2   | Internal Equity                      | 18,075,230,672    | -             | 15.2%     | 53.9%     |
| 3   | BlackRock, Inc.                      | 9,414,043,490     | -             | 7.9%      | 61.8%     |
| 4   | Baillie Gifford                      | 3,552,139,505     | -             | 3.0%      | 64.8%     |
| 5   | Wellington Management                | 3,315,328,086     | -             | 2.8%      | 67.5%     |
| 6   | Blackstone Group                     | 2,940,414,581     | 743,229,175   | 2.5%      | 70.0%     |
| 7   | Mondrian Investment Partners Limited | 2,846,201,685     | -             | 2.4%      | 72.4%     |
| 8   | Rockwood Capital                     | 2,777,228,981     | 145,966,291   | 2.3%      | 74.7%     |
| 9   | Walter Scott & Partners              | 2,500,515,037     | -             | 2.1%      | 76.8%     |
| 10  | Gladius Capital Management LP        | 1,953,147,128     | -             | 1.6%      | 78.5%     |
| 11  | Angelo, Gordon & Co.                 | 1,909,309,862     | 49,036,361    | 1.6%      | 80.1%     |
| 12  | Landmark Partners, Inc.              | 1,668,125,601     | 2,269,616,382 | 1.4%      | 81.5%     |
| 13  | ValueAct Capital                     | 1,219,307,953     | -             | 1.0%      | 82.5%     |
| 14  | HPS Investment Partners, LLC         | 1,083,645,674     | 116,562,307   | 0.9%      | 83.4%     |
| 15  | LBA Realty                           | 1,054,730,346     | 240,594,059   | 0.9%      | 84.3%     |
| 16  | DoubleLine Capital LP                | 855,797,246       | -             | 0.7%      | 85.0%     |
| 17  | Rockpoint Group, LLC                 | 841,169,186       | 85,870,046    | 0.7%      | 85.7%     |
| 18  | Earnest Partners                     | 825,057,695       | -             | 0.7%      | 86.4%     |
| 19  | Campbell Group LLC, The              | 721,890,706       | -             | 0.6%      | 87.0%     |
| 20  | Franklin Templeton Investments       | 714,368,710       | -             | 0.6%      | 87.6%     |
|     | 84 Remaining Managers*               | 14,780,240,059    | 2,377,046,338 | 12.4%     | 100.0%    |
| Tot | tal                                  | 119,218,122,620   | 6,027,920,961 | 100.0%    | 100.0%    |

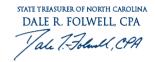
\*Manager count consists of all manager accounts with a market value greater than \$5.1 million and new, not yet funded, accounts.





## Appendix





#### NCRS Public Equity Net of Fees Performance As of March 31, 2022

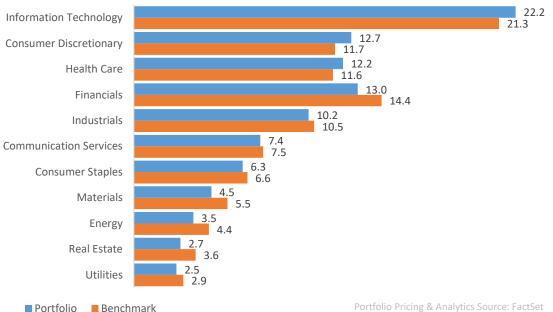
|                           | Market Value<br>(\$MM) | 3 Month | 1 Year | 3 Years | 5 Years | 10 Years |
|---------------------------|------------------------|---------|--------|---------|---------|----------|
| Public Equity             | \$41,245               | (7.67)  | 1.54   | 13.55   | 11.76   | 10.41    |
| Benchmark <sup>2</sup>    |                        | (5.47)  | 6.26   | 13.40   | 11.13   | 9.77     |
|                           |                        |         |        |         |         |          |
| Domestic Portfolio        | \$22,245               | (5.99)  | 10.29  | 18.37   | 15.73   | 14.31    |
| Russell 3000              |                        | (5.28)  | 11.92  | 18.24   | 15.40   | 14.28    |
|                           |                        |         |        |         |         |          |
| Non-US Portfolio          | \$18,996               | (9.57)  | (7.23) | 8.46    | 8.12    | 6.72     |
| Custom Benchmark          |                        | (5.60)  | (1.27) | 7.87    | 6.92    | 5.78     |
|                           |                        |         |        |         |         |          |
| Equity Hedge              | \$2                    | (0.16)  | 23.11  | 12.55   | 8.36    | -        |
| MSCI ACWI (Beta Adjusted) |                        | (2.18)  | 2.63   | 5.60    | 4.71    | -        |



## NCRS Public Equity Portfolio Characteristics

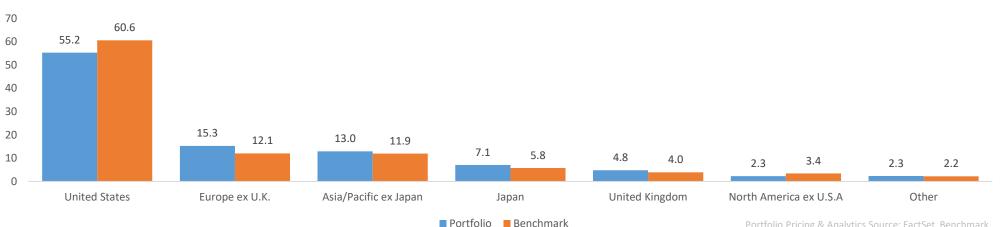
As of March 31, 2022

| Portfolio             | Characteristics |               |
|-----------------------|-----------------|---------------|
|                       | Portfolio       | MSCI ACWI IMI |
| Price/Earnings        | 17.7            | 17.2          |
| Dividend Yield        | 0.9             | 0.9           |
| Price/Book            | 2.7             | 2.7           |
| Market Capitalization | 334,564         | 364,419       |
| Return On Equity      | 9.0             | 8.7           |



@FactSet Research Systems





## Total Equity Regional Allocation

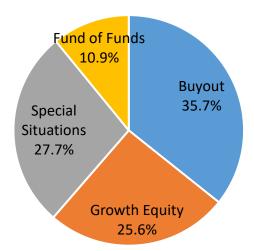
Portfolio Pricing & Analytics Source: FactSet Benchmark Pricing & Analytics Source: FactSet



## NCRS Private Equity Portfolio As of March 31, 2022

|                        |                     | Net of Fee        | s Performance (%    | 6)                      |                         |                         |
|------------------------|---------------------|-------------------|---------------------|-------------------------|-------------------------|-------------------------|
|                        | Market Value        | 3 Month           | 1 Year              | 3 Years                 | 5 Years                 | 10 Years                |
| Private Equity         | \$7,499             | 3.65              | 35.59               | 25.31                   | 20.62                   | 14.84                   |
| Benchmark <sup>3</sup> |                     | 4.02              | 25.13               | 20.37                   | 16.45                   | 13.33                   |
|                        |                     |                   |                     |                         |                         |                         |
| Buyout                 | \$2,677             | 6.35              | 39.45               | 25.89                   | 20.21                   | 13.80                   |
| Growth                 | \$1,922             | (3.58)            | 14.80               | 27.95                   | 23.69                   | 17.88                   |
| Special Situations     | \$2,079             | 9.21              | 48.24               | 21.65                   | 17.37                   | 11.32                   |
| Fund of Funds          | \$817               | 0.56              | 60.12               | 24.78                   | 21.11                   | 16.48                   |
|                        |                     | IRR               | oy Vintage Year     |                         |                         |                         |
| <u>2005 2006 2007</u>  | <u>2008 2009 20</u> | <u>10 2011 20</u> | <u>12 2013 2014</u> | <u>2015</u> <u>2016</u> | <u>2017</u> <u>2018</u> | <u>2019</u> <u>2020</u> |

|            | Pre-2004 | 2004 | 2005 | 2006 | <u>2007</u> | 2008  | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | Total |
|------------|----------|------|------|------|-------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| NCRS       | 12.02    | 6.85 | 5.11 | 3.50 | 9.69        | 11.26 | 9.20        | 20.34       | 9.81        | 16.00       | 13.97       | 18.39       | 23.97       | 28.53       | 23.49       | 29.24       | N/A         | N/A         | 0.97        | 0.00        | 11.03 |
| # of Funds | 28       | 3    | 11   | 21   | 15          | 17    | 3           | 1           | 6           | 6           | 9           | 4           | 9           | 6           | 7           | 3           | N/A         | N/A         | 4           | 1           | 154   |

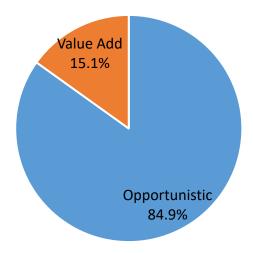




## NCRS Non-Core Real Estate Portfolio As of March 31, 2022

|                        |              | Net of Fees I | Performance | (%)     |         |          |
|------------------------|--------------|---------------|-------------|---------|---------|----------|
|                        | Market Value | 3 Month       | 1 Year      | 3 Years | 5 Years | 10 Years |
| Non-Core Real Estate   | \$2,662      | 5.76          | 20.15       | 9.97    | 10.88   | 12.16    |
| Benchmark <sup>4</sup> |              | 5.81          | 18.82       | 9.15    | 8.82    | 8.92     |
|                        |              |               |             |         |         |          |
| Opportunistic          | \$2,260      | 6.33          | 20.77       | 10.71   | 11.54   | 12.12    |
| Value Add              | \$402        | 2.78          | 16.62       | 7.67    | 8.94    | 11.81    |

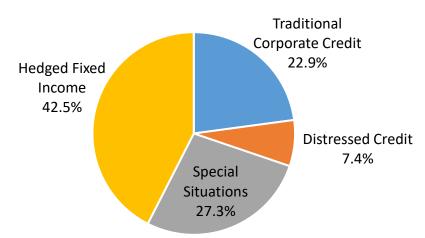
|            |          |       |       |      |      |       |      |             |             | IRR by Vir | ntage Year |      |      |             |             |       |             |      |             |             |       |
|------------|----------|-------|-------|------|------|-------|------|-------------|-------------|------------|------------|------|------|-------------|-------------|-------|-------------|------|-------------|-------------|-------|
|            | Pre-2004 | 2004  | 2005  | 2006 | 2007 | 2008  | 2009 | <u>2010</u> | <u>2011</u> | 2012       | 2013       | 2014 | 2015 | <u>2016</u> | <u>2017</u> | 2018  | <u>2019</u> | 2020 | <u>2021</u> | <u>2022</u> | Total |
| NCRS       | 8.91     | 15.69 | -1.47 | 3.13 | 2.19 | 15.42 | N/A  | 15.93       | 17.49       | 16.11      | 12.82      | 5.50 | 8.96 | 13.88       | N/A         | 15.02 | 35.34       | N/A  | N/A         | N/A         | 6.85  |
| # of Funds | 16       | 3     | 15    | 13   | 8    | 6     | N/A  | 6           | 7           | 5          | 7          | 7    | 6    | 7           | N/A         | 1     | 1           | N/A  | N/A         | N/A         | 108   |





#### NCRS Opportunistic Fixed Income Portfolio As of March 31, 2022

|          |      |             |             |             |             |                       |      | Net of | Fees Pe     | erformar    | ice (%)     |             |             |             |             |             |      |  |
|----------|------|-------------|-------------|-------------|-------------|-----------------------|------|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|--|
|          |      |             |             |             |             | Market V              | alue | 3 IV   | lonth       | 1           | 'ear        | 3 Ye        | ears        | 5 Ye        | ars         | 10 Ye       | ars  |  |
|          |      | Орро        | rtunistic   | Fixed In    | ncome       | \$7,240               | כ    | 1      | .03         | 10          | .91         | 7.8         | 37          | 6.8         | 6           | 7.0         | 5    |  |
|          |      | Bench       | nmark⁵      |             |             |                       |      | (0     | .17)        | 5           | 18          | 6.          | 70          | 4.0         | )1          | 3.30        | C    |  |
|          |      |             |             |             |             |                       |      |        |             |             |             |             |             |             |             |             |      |  |
|          |      | Tra         | ditional    | Corpora     | te Credit   | \$1,656               | 5    | 0      | .43         | 5           | .88         | 7.2         | 29          | 6.8         | 4           | 7.40        | D    |  |
|          |      | Dis         | tressed     | Credit      |             | \$532                 |      | 1      | .96         | 21          | 73          | 13.         | 07          | 11.         | 06          | 11.0        | )5   |  |
|          |      | Spe         | ecial Situ  | ations      |             | \$1,976               | 5    | 2      | .18         | 15          | 5.66        | 7.8         | 38          | 8.1         | .5          | 12.5        | 51   |  |
|          |      | He          | dged Fix    | ed Incor    | ne          | \$3,077               | 7    | 0      | .46         | 9           | .31         | 7.          | 78          | 5.8         | 0           | 5.28        | 8    |  |
|          |      |             |             |             |             |                       |      |        | IRR by Vii  | ntage Year  |             |             |             |             |             |             |      |  |
|          | 2005 | <u>2006</u> | <u>2007</u> | <u>2008</u> | <u>2009</u> | <u>2010</u> <u>20</u> | 11   | 2012   | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | 2021 |  |
| CRS      | 2.87 | N/A         | 16.91       | 7.91        | 22.42       | 5.50 5.               | 10   | 3.93   | 5.00        | 4.04        | 8.60        | 8.04        | 17.45       | N/A         | 10.72       | 23.72       | 9.31 |  |
| of Funds | 1    | N/A         | 1           | 3           | 1           | 4 9                   | Э    | 2      | 7           | 3           | 1           | 8           | 2           | N/A         | 1           | 2           | 1    |  |



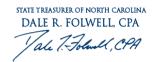


## NCRS Rates & Liquidity Portfolio As of March 31, 2022

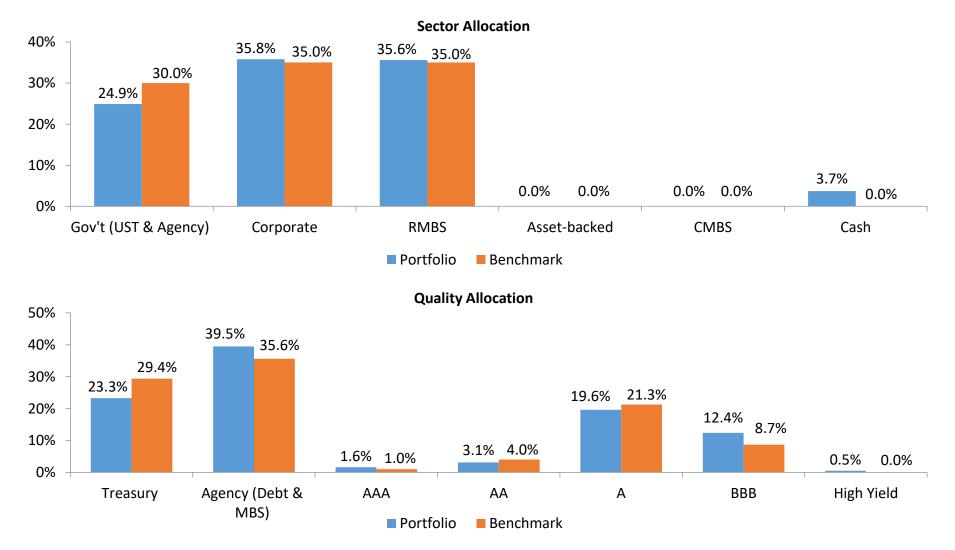
|                        |              | Net of Fees P | erformance (%) |         |         |          |
|------------------------|--------------|---------------|----------------|---------|---------|----------|
|                        | Market Value | 3 Month       | 1 Year         | 3 Years | 5 Years | 10 Years |
| Rates & Liquidity      | \$46,170     | (3.86)        | (2.16)         | 2.51    | 2.71    | 2.91     |
| Benchmark <sup>6</sup> |              | (6.58)        | (3.61)         | 1.99    | 2.52    | 2.80     |
|                        |              |               |                |         |         |          |
| IG Fixed Income        | \$31,517     | (5.53)        | (3.23)         | 2.61    | 2.84    | 3.00     |
| Core Fixed Income      | \$27,918     | (6.21)        | (3.66)         | 2.72    | 2.99    | 3.11     |
| IG Fixed Income Cash   | \$3,599      | 0.04          | 0.15           | 0.98    | 1.19    | -        |
| Pension Cash           | \$14,653     | 0.03          | 0.12           | 0.95    | 1.24    | -        |

| Core Fiz                       | xed Income Portfolio | Characteristics |                    |
|--------------------------------|----------------------|-----------------|--------------------|
|                                | Avg. Coupon          | Yield to Worst  | Effective Duration |
| Government (Treasury & Agency) | 3.8%                 | 2.5%            | 9.1                |
| Corporate                      | 4.1%                 | 3.7%            | 9.5                |
| Mortgage                       | 2.9%                 | 3.0%            | 4.4                |
| Total                          | 2.9%                 | 3.1%            | 7.5                |





#### NCRS Core Fixed Income Portfolio Characteristics As of March 31, 2022

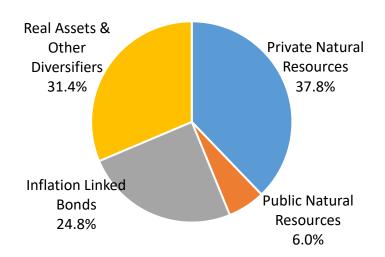




## NCRS Inflation Sensitive Portfolio As of March 31, 2022

|                                  | Market Value | 3 Month | 1 Year | 3 Years | 5 Years | 10 Years |
|----------------------------------|--------------|---------|--------|---------|---------|----------|
| Inflation Sensitive              | \$5,512      | 4.41    | 13.33  | 5.27    | 5.05    | 2.21     |
| Benchmark <sup>10</sup>          |              | 2.73    | 11.52  | 5.26    | 4.05    | 1.34     |
|                                  |              |         |        |         |         |          |
| Private Natural Resources        | \$2,083      | 4.52    | 14.25  | 2.90    | 2.46    | 2.67     |
| Public Natural Resources         | \$331        | 25.22   | 47.81  | 16.13   | 7.63    | (0.79)   |
| Inflation Linked Bonds           | \$1,367      | (1.70)  | 1.42   | 3.54    | 3.39    | -        |
| Real Assets & Other Diversifiers | \$1,727      | 6.14    | 17.53  | 8.31    | 8.91    | 8.18     |

|            |             |             |             |      |             |             |             | IRR  | by Vintage  | Year        |             |             |             |             |      |             |             |       |
|------------|-------------|-------------|-------------|------|-------------|-------------|-------------|------|-------------|-------------|-------------|-------------|-------------|-------------|------|-------------|-------------|-------|
|            | <u>2006</u> | <u>2007</u> | <u>2008</u> | 2009 | <u>2010</u> | <u>2011</u> | <u>2012</u> | 2013 | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | 2020 | <u>2021</u> | <u>2022</u> | Total |
| NCRS       | 0.74        | -7.73       | -5.67       | N/A  | -5.40       | -5.74       | 5.95        | 6.95 | 7.57        | 8.44        | 3.57        | -3.05       | 22.12       | 28.88       | N/A  | 32.12       | N/A         | 1.97  |
| # of Funds | 3           | 2           | 2           | N/A  | 3           | 9           | 7           | 11   | 12          | 4           | 4           | 1           | 3           | 2           | N/A  | 5           | N/A         | 68    |

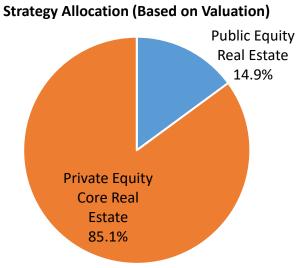




#### NCRS Core Real Estate Portfolio As of March 31, 2022 Net of Fees Performance (%)

|                                 | Market Value | 3 Month | 1 Year | 3 Years | 5 Years | 10 Years |
|---------------------------------|--------------|---------|--------|---------|---------|----------|
| Core Real Estate                | \$6,588      | 4.78    | 16.83  | 8.75    | 8.40    | 8.98     |
| Benchmark <sup>11</sup>         |              | 4.99    | 24.30  | 9.59    | 8.49    | 9.56     |
|                                 |              |         |        |         |         |          |
| Public Equity Real Estate       | \$982        | (3.76)  | 12.31  | 7.94    | 8.93    | 8.91     |
| Private Equity Core Real Estate | \$5,605      | 6.41    | 17.73  | 8.90    | 8.32    | 9.09     |

|            |          |      |       |      |      |      |      |             |             |             | <u> </u>    |             |             |             |             |       |             |      |             |             |       |
|------------|----------|------|-------|------|------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|-------------|------|-------------|-------------|-------|
|            | Pre-2004 | 2004 | 2005  | 2006 | 2007 | 2008 | 2009 | <u>2010</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | 2018  | <u>2019</u> | 2020 | <u>2021</u> | <u>2022</u> | Total |
| NCRS       | 7.51     | 9.74 | -8.33 | 4.37 | 1.39 | 9.46 | N/A  | 23.62       | N/A         | N/A         | 4.46        | 6.86        | 7.74        | 9.37        | N/A         | 15.77 | N/A         | N/A  | 28.37       | N/A         | 7.10  |
| # of Funds | 5        | 1    | 1     | 2    | 3    | 1    | N/A  | 1           | N/A         | N/A         | 2           | 6           | 2           | 9           | N/A         | 1     | N/A         | N/A  | 3           | N/A         | 37    |

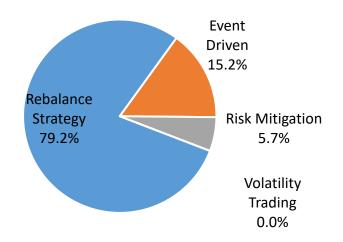




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## NCRS Multi-Strategy Portfolio As of March 31, 2022

| Net of Fees Performance (%) |              |         |        |         |         |          |  |  |  |  |  |  |
|-----------------------------|--------------|---------|--------|---------|---------|----------|--|--|--|--|--|--|
|                             | Market Value | 3 Month | 1 Year | 3 Years | 5 Years | 10 Years |  |  |  |  |  |  |
| Multi-Strategy              | \$2,302      | (1.74)  | 3.07   | 3.16    | 3.79    | 5.87     |  |  |  |  |  |  |
| Benchmark <sup>12</sup>     |              | (2.56)  | 0.09   | 2.98    | 3.58    | 5.32     |  |  |  |  |  |  |
|                             |              |         |        |         |         |          |  |  |  |  |  |  |
| Rebalance Strategy          | \$1,822      | (2.31)  | 2.13   | 4.76    | 5.47    | 7.21     |  |  |  |  |  |  |
| Event Driven                | \$349        | 1.98    | 11.17  | 7.60    | 5.02    | -        |  |  |  |  |  |  |
| <b>Risk Mitigation</b>      | \$131        | (3.23)  | (3.27) | (1.76)  | (2.63)  | -        |  |  |  |  |  |  |
| Volatility Trading          | -            | -       | -      | -       | -       | -        |  |  |  |  |  |  |





## Notes:

All data presented are based on currently available information at time of publication and may be revised subsequently.

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

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

3. The Private Equity Benchmark is comprised of the following Burgiss Group Private iQ indices: 50% Buyout, 20% Venture Capital, and 30% Distressed.

4. 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).

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

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

7. The IG Fixed Income & Cash 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 comprised of the following weightings: 30% BOAML 5+ Years Governments, 35% BOAML 5+ Years Investment Grade Corporates, and 35% BOAML Mortgage Master.

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

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

10. 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.

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

12. 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.

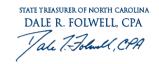
13. The Implementation Benchmark is a blend of the Asset Class Benchmarks at policy weights. It is currently weighted as follows: 58% Growth Benchmark, 29% Rates & Liquidity Benchmark, 11% Inflation Sensitive & Diversifiers Benchmark, and 2% Multi-Strategy Benchmark.

14. The Long-Term Policy Benchmark is comprised of 57% MSCI ACWI IMI Net, 33% BOAML 5+ Years U.S. Treasury Index, 6% Bloomberg Commodity Index, and 4% BOAML 1-3 Years U.S. Inflation-Linked Treasury Index.

\*Source: BofA Merrill Lynch, used with permission. See disclaimer on next page.



**Investment Management Division** 



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