NORTH CAROLINA DEPARTMENT OF STATE TREASURER

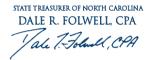


state treasurer of north carolina DALE R. FOLWELL, CPA

INVESTMENT MANAGEMENT DIVISION

Investment Grade Fixed Income Review

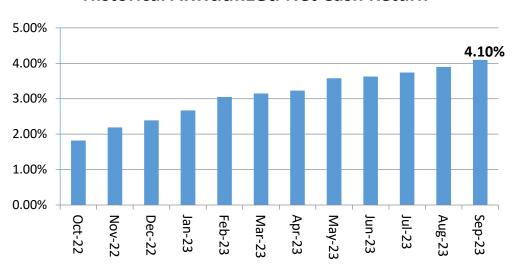
November 15, 2023



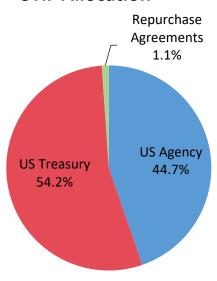
North Carolina Short Term Portfolio (STIF)

September 30, 2023

Historical Annualized Net Cash Return



STIF Allocation



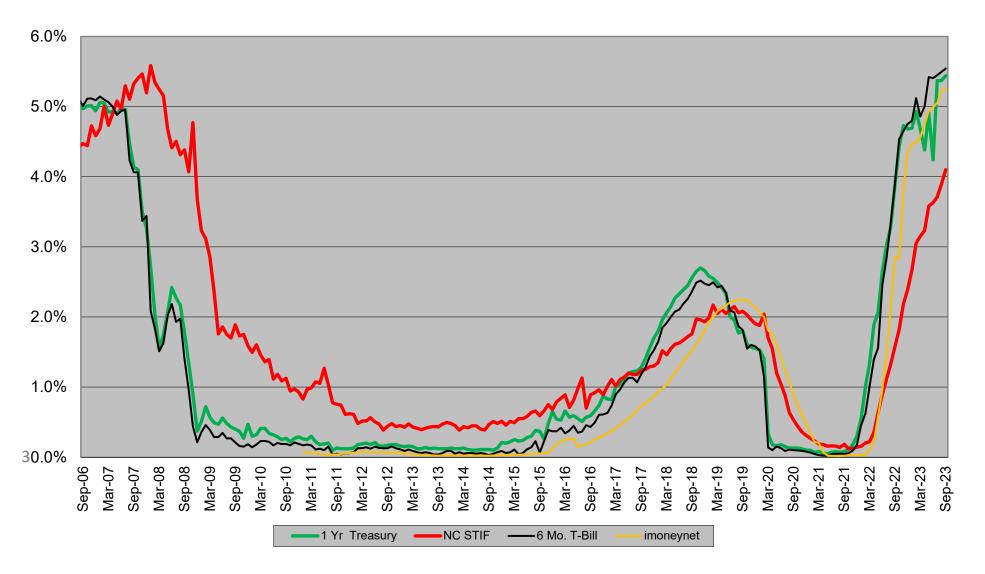
Portfolio Characteristics	Month ending 09/30/23
Current Annualized Net Cash Return	4.10%
Effective Duration	.61
Average Maturity (Yrs)	0.7
Average Credit Rating (Moody's)	AAA
Average Price	99.14
Average Coupon	1.96%



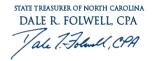


Short Term Portfolio (STIF) Rate History

\$50.3 Billion AUM as of 9/30/23

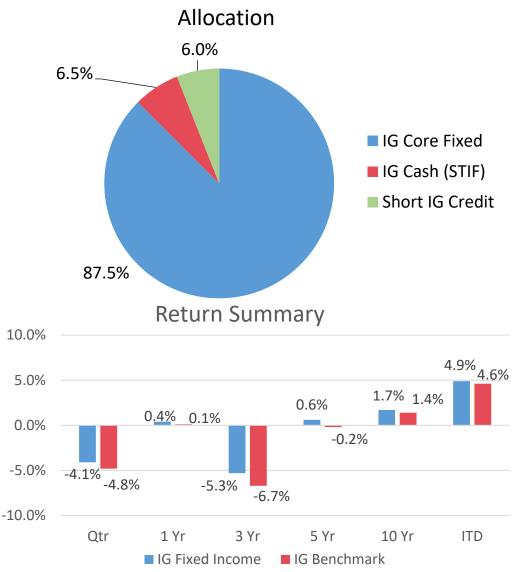




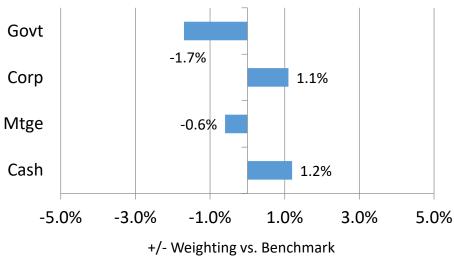


Investment Grade Fixed Income Profile

As of September 30, 2023

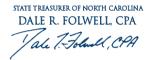


Relative Weighting in Core Fixed

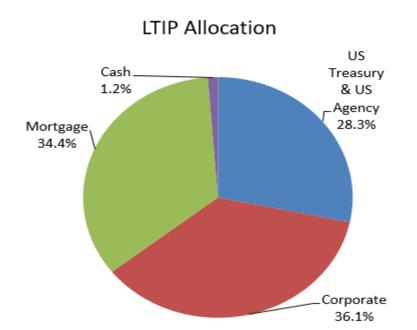


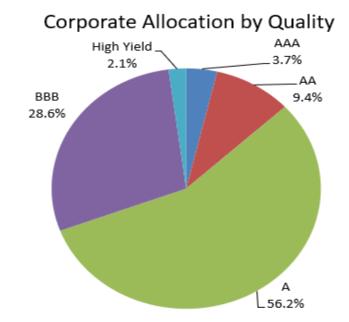
- Returns for I.G. Fixed Income were close to flat for the last year with income offsetting negative price returns on higher rates
- Investment Grade Fixed Income continues to outperform on all measured time periods.
- The portfolio's outperformance over the last year was driven by shorter relative duration.





Core Fixed Income Long Term Portfolio (LTIP) September 30, 2023





Portfolio Characteristics (ex cash)	As of 9/30/23
Yield to Maturity	5.4%
Duration	8.1
Average Maturity (Yrs)	12.0
Average Credit Rating	AA
Average Coupon	3.8%

^{*} BOAML Custom Fixed Income Benchmark





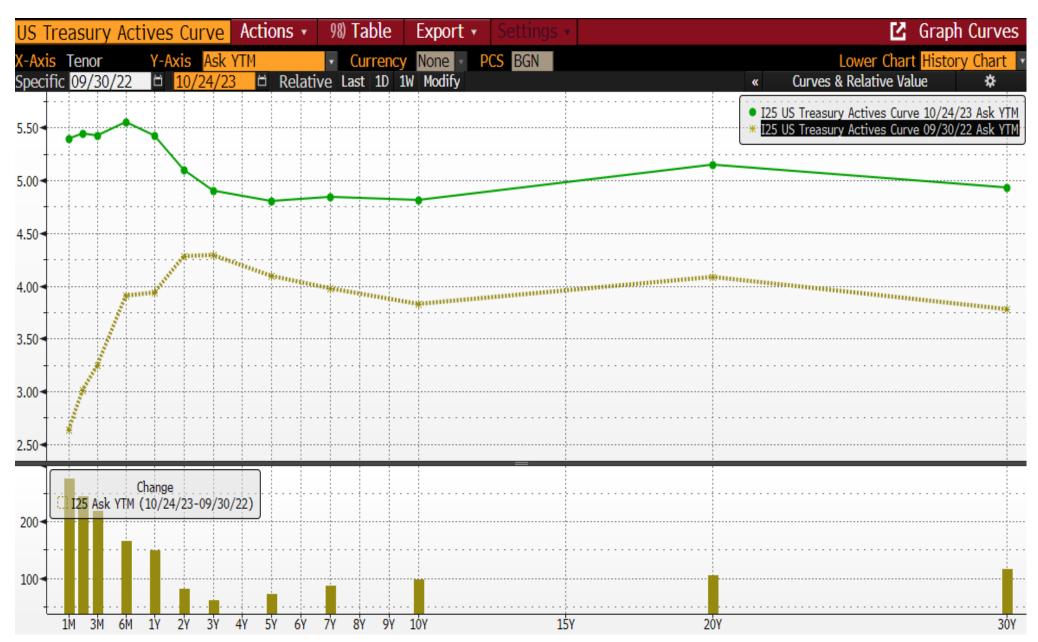
10 year and 30 Year UST Yield History



Source: Bloomberg



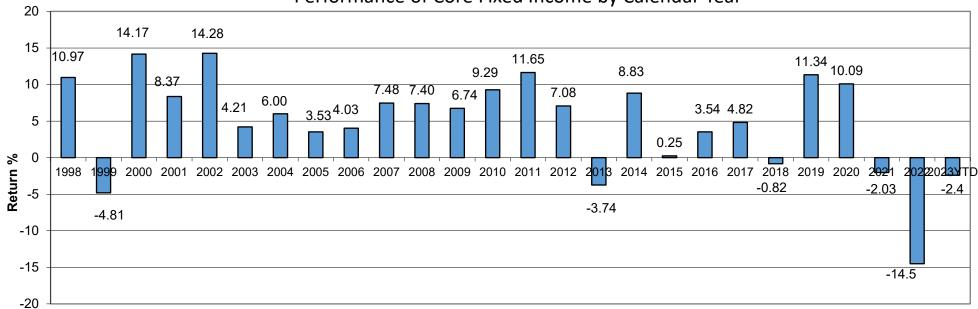




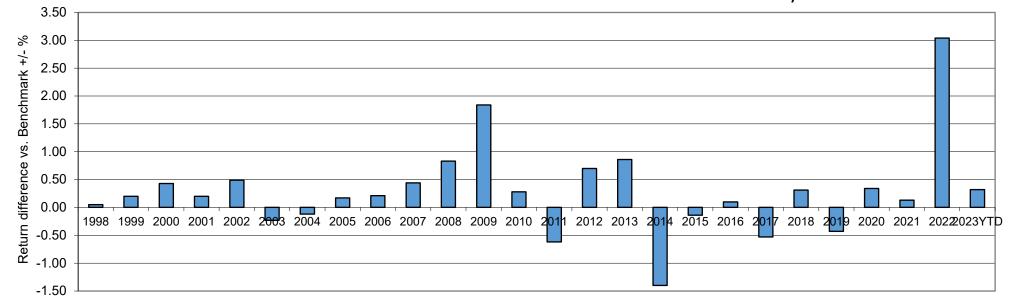




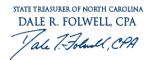




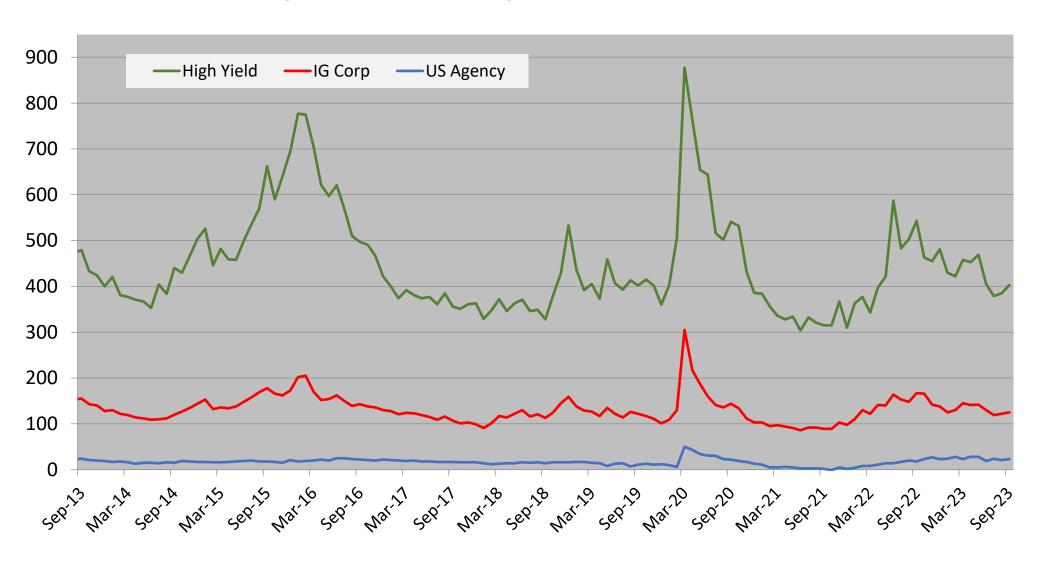
Core Fixed Income Relative Performance vs. BOAML Benchmark by Calendar Year







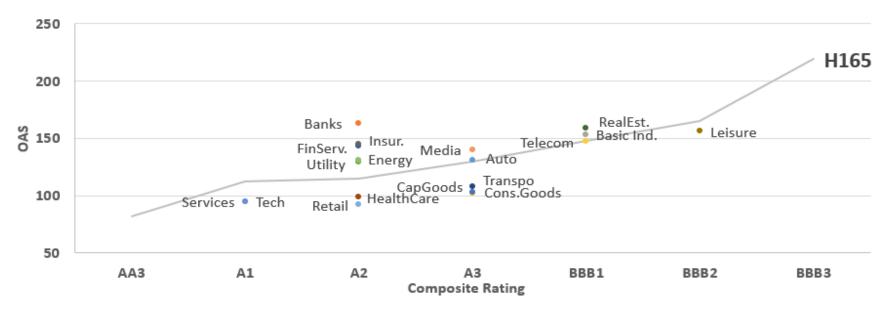
Spread History Credit Markets

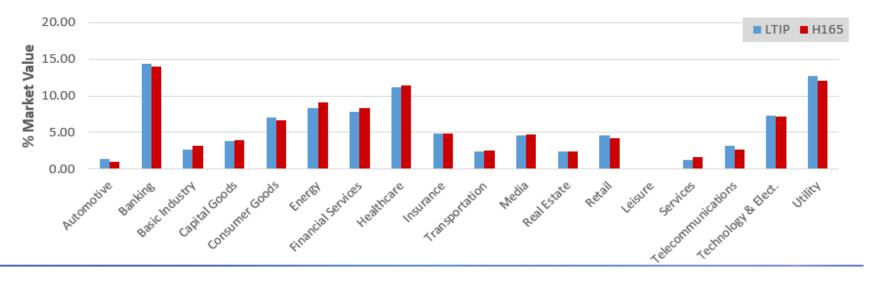




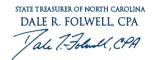
Corporate Relative Value and LTIP Allocation by Sector

As of 9/30/23









FOMC Projections

Table 1. Economic projections of Federal Reserve Board members and Federal Reserve Bank presidents, under their individual assumptions of projected appropriate monetary policy, September 2023

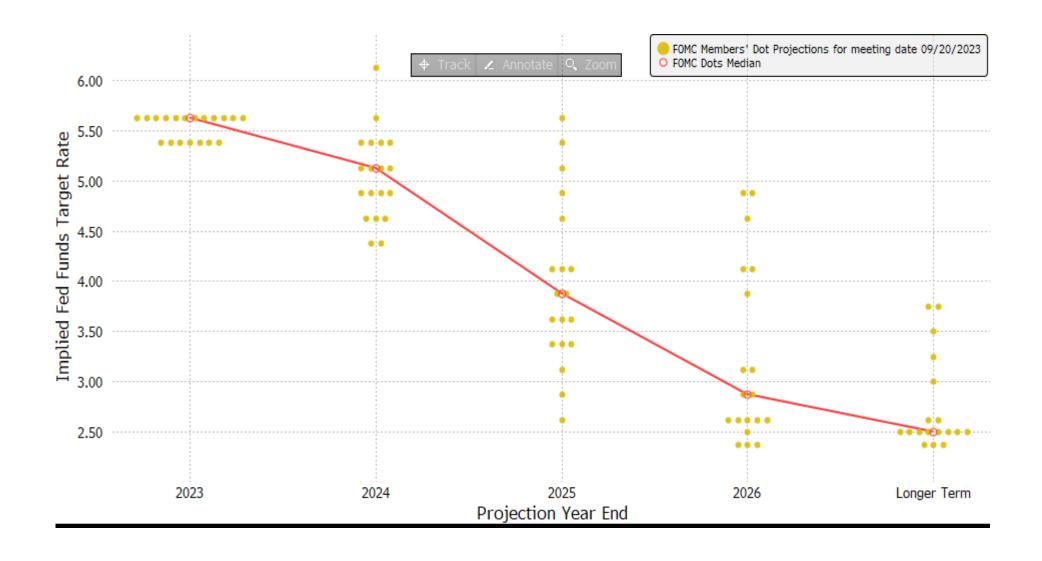
Percent

	Median^1					Central Tendency ²				$ m Range^3$					
Variable	2023	2024	2025	2026	Longer run	2023	2024	2025	2026	Longer run	2023	2024	2025	2026	Longer run
Change in real GDP June projection	2.1 1.0	1.5 1.1	1.8 1.8	1.8	1.8	1.9-2.2 0.7-1.2	1.2-1.8 0.9-1.5	1.6-2.0 1.6-2.0	1.7-2.0	1.7-2.0 1.7-2.0	1.8-2.6 $0.5-2.0$	0.4-2.5 0.5-2.2	1.4-2.5 1.5-2.2	1.6-2.5	1.6-2.5
Unemployment rate June projection	3.8 4.1	$\frac{4.1}{4.5}$	$\frac{4.1}{4.5}$	4.0	4.0	3.7-3.9 4.0-4.3	3.9 – 4.4 $4.3 – 4.6$	3.9 – 4.3 $4.3 – 4.6$	3.8-4.3	3.8-4.3	$3.7-4.0 \\ 3.9-4.5$	$3.7 - 4.5 \\ 4.0 - 5.0$	3.7-4.7 $3.8-4.9$	3.7-4.5	3.5-4.3 3.5-4.4
PCE inflation June projection	3.3 3.2	$\frac{2.5}{2.5}$	$\frac{2.2}{2.1}$	2.0	2.0	3.2-3.4 3.0-3.5	$\substack{2.3-2.7\\2.3-2.8}$	2.0-2.3 $2.0-2.4$	2.0-2.2	2.0	3.1 - 3.8 $2.9 - 4.1$	$\substack{2.1 - 3.5 \\ 2.1 - 3.5}$	2.0-2.9 2.0-3.0	2.0-2.7	2.0
Core PCE inflation ⁴ June projection	$\frac{3.7}{3.9}$	$\frac{2.6}{2.6}$	$\frac{2.3}{2.2}$	2.0	 	3.6-3.9 3.7-4.2	$\substack{2.5-2.8\\2.5-3.1}$	2.0-2.4 $2.0-2.4$	2.0-2.3		3.5 - 4.2 3.6 - 4.5	2.3 - 3.6 2.2 - 3.6	2.0 – 3.0 2.0 – 3.0	2.0-2.9	
Memo: Projected appropriate policy path					 					 					
Federal funds rate June projection	$\frac{5.6}{5.6}$	$\frac{5.1}{4.6}$	$\frac{3.9}{3.4}$	2.9	2.5	5.4 - 5.6 $5.4 - 5.6$	$\begin{array}{c} 4.6 – 5.4 \\ 4.4 – 5.1 \end{array}$	$3.4-4.9 \\ 2.9-4.1$	2.5-4.1	2.5-3.3 2.5-2.8	5.4 - 5.6 $5.1 - 6.1$	$\begin{array}{c} 4.4 - 6.1 \\ 3.6 - 5.9 \end{array}$	2.6-5.6 $2.4-5.6$	2.4-4.9	2.4-3.8 2.4-3.6

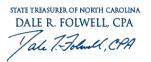




Fed Dot Plot







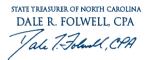
Modest Rate Decreases Expected in the Near Term



13

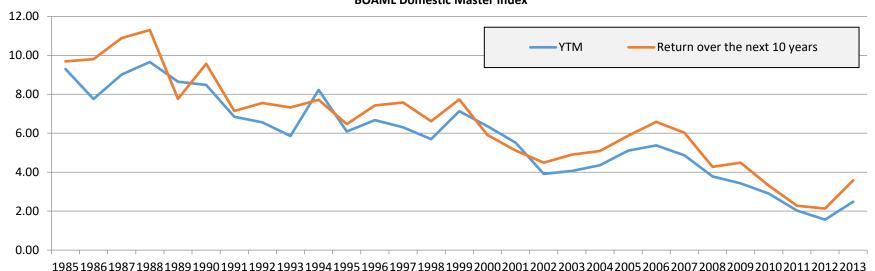
Source: Bloomberg





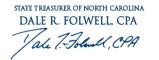
YTM vs Realized 10 Yr. Return

BOAML Domestic Master Index









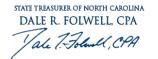
Fixed Income Return Expectations

1 Year Core Fixed Income Return Simulation (Parallel Shift) as of 9/30/23



- Expectations are for rates to decline modestly in 2024
- The TIPS markets shows little concern over inflation surging to recent high levels
- Return expectations over the next five years have increased to 5-7% due to yields rising yet again in 2023.





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