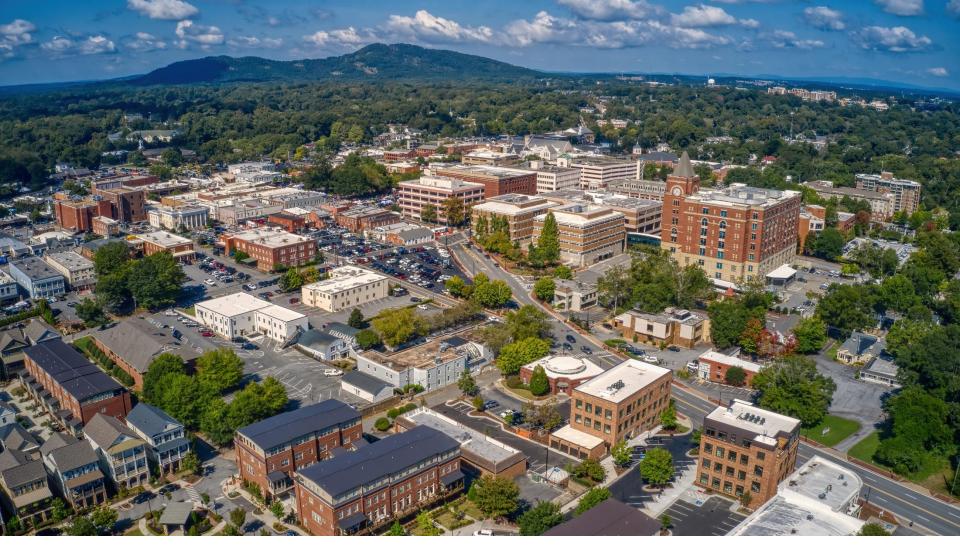
### BOARD OF TRUSTEES Cobb County Government Employees' Pension Plan Trust Other Post Employment Benefits (OPEB) Trust Meeting of December 6, 2023 3<sup>rd</sup> Floor BOC Board Room, 2:00 PM

### Agenda

- I. Invitation for Public Comment
- II. Approval of Minutes *Jim Harner*
- III. Invoice Payments Approval Bill Volckmann
- IV. Truist Report Truist Lisa Allen
- V. Mission Square Dawn van Dyck
- VI. Advisor Report UBS Earle Dodd, Austin Dodd, and Hampton Clark
- VII. Vesting Changes
- VIII. Approval to renew Administrative Services Agreement with MissionSquare Retirement
  - IX. 2024 Meeting Calendar
  - X. New Business
  - XI. Adjourn
- XII. Next Trustee Meeting TBD 2024 Calendar to be approved



### 2023 Plan Sponsor Review





December 6, 2023

## Agenda



### **2023 Plan Review** Accomplishments and Results



### Participant Engagement Education and Planning

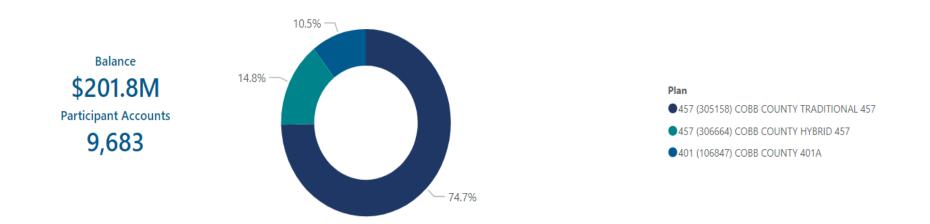


Secure 2.0 Legislative Updates

# 2023 Plan Review



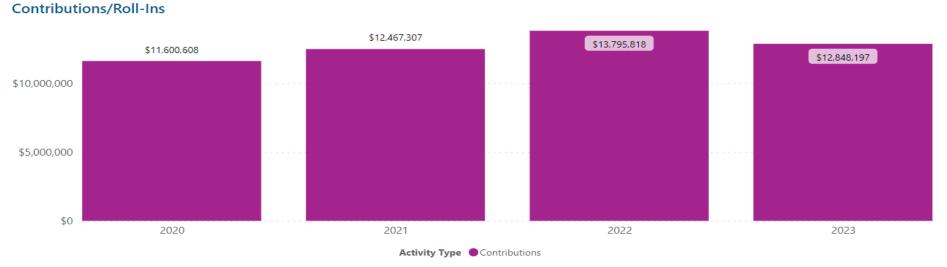
## Balance Summary Details as of September 30, 2023



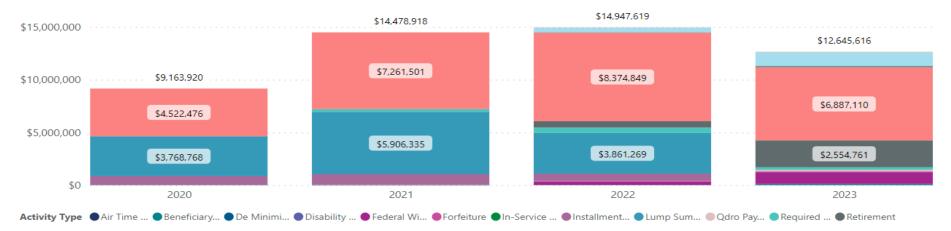
#### **Balance Summary Details**

Plan	Balance	Participant Accounts	Average Balance ▼	Median Balance
457 (305158) COBB COUNTY TRADITIONAL 457	\$150,677,152	2,170	\$69,436	\$27,189
457 (306664) COBB COUNTY HYBRID 457	\$29,872,287	3,988	\$7,491	\$3,522
401 (106847) COBB COUNTY 401A	\$21,223,300	3,525	\$6,021	\$3,815

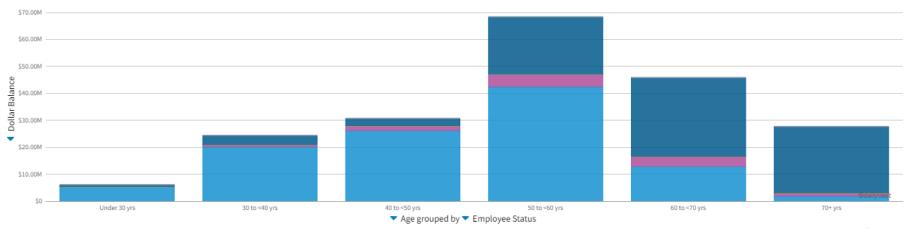
### Contributions & Disbursements as of September 30, 2023



**Participant Disbursements** 



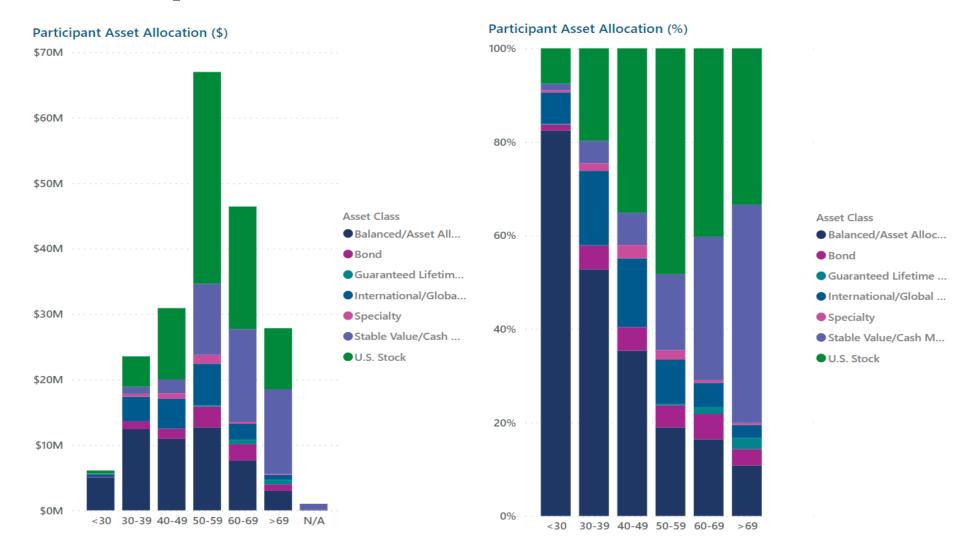
# Participant Status as of September 30, 2023



Vertical Bars

Age	Active Contributing	Active Not Contributing	Eligible for Participation	Separated from Service	Separated w/o Balance	Unknown	Total
Under 30 yrs	\$5,237,302.46	\$86,091.05	\$0.00	\$750,207.00	\$0.00	\$0.00	\$6,073,600.51
30 to <40 yrs	\$20,041,556.57	\$844,795.39	\$0.00	\$3,500,978.42	\$0.00	\$0.00	\$24,387,330.38
40 to <50 yrs	\$26,089,670.53	\$1,816,242.47	\$0.00	\$2,783,932.63	\$0.00	\$0.00	\$30,689,845.63
50 to <60 yrs	\$42,359,361.95	\$4,676,711.47	\$0.00	\$21,369,754.01	\$0.00	\$0.00	\$68,405,827.43
60 to <70 yrs	\$12,773,039.21	\$3,755,683.86	\$0.00	\$29,318,447.34	\$0.00	\$0.00	\$45,847,170.41
70+ yrs	\$1,706,332.62	\$1,250,770.66	\$0.00	\$24,720,182.35	\$0.00	\$0.00	\$27,677,285.63
Total	\$108,207,263.34	\$12,430,294.90	\$0.00	\$82,443,501.75	\$0.00	\$0.00	\$203,081,059.99

## Participant Asset Allocation as of September 30, 2023



# Participant Engagement



# **Goal-Based Programs**

		1   		
Q1	January – March		Mobile	
	Financial Wellness: New Year, New Goals		Арр	
			Financial Wellness	
Q2	April – June		Center	
	Retirement 101: Understanding Your Plan	i ! EED	E-Newsletter	
			and Emails	
Q3	July – September		RPS Workshops	
	Investing: Making Your Savings Count		and Appointments	
	investing, making four savings count		Financial Planning Webinars and	
Q4	October – December		CFP <sup>®</sup> Consultations	
	Pulling It All Together: Am I on Track?	   		
	Market Overview and Responsive Communications	,     ]		

### Introducing MissionSquare Realize Magazine

### Check out our new magazine,

designed to help public service employees to and through retirement.





# **Our Financial Planning Services:**

Including consultations and weekly webinars are at no additional cost; however, there are eligibility requirements. Additionally, CFP® webinars are available for any participant to attend regardless of age or account balance.

### **Financial Planning Services**

Financial Wellness Center (within the participant website)

- Invitations to CFP<sup>®</sup> webinars
- Virtual consultations with a Financial Planner, CFP<sup>®</sup> (now and through retirement)
- Social Security analysis with strategies for taking Social Security

### Financial Planning Services for participants with account balances of \$100,000+

- Financial Wellness Center (within the participant website)
- Invitations to CFP<sup>®</sup> webinars
- Virtual consultations with a Financial Planner, CFP<sup>®</sup> (now and through retirement)
- Social Security analysis with strategies for taking Social Security
- Personalized financial plan

#### Financial Planning Services for participants with account balances of \$1 million+ (automatically enrolled in this service)\*:

- A Dedicated Personal Financial Planner, CFP<sup>®</sup>
- Financial Wellness Center (within the participant website)
- Invitations to CFP<sup>®</sup> webinars
- Virtual consultations with your Dedicated CFP<sup>®</sup> (now and through retirement)
- Social Security analysis with strategies for taking Social Security
- Personalized financial plan
- Focused communications specific to financial topics of interest
- Exclusive webinars relevant to your life stage

# SECURE 2.0 What You Need to Know



# **SECURE 2.0**

### Highlights Impacting Governmental Plans



### **Plan Design Options**

- Eliminating the 457(b) "first day of the month" rule
- Emergency savings
- Student loan matching
- Self-certification of unforeseeable emergency withdrawals



### **Increasing Savings**

- Increase Required Minimum Distribution (RMD) age to 73 in 2023. RMD age to 75 in 2033.
- Reduction in RMD penalty
- Special catch-up for workers (ages 62-64 in House and 60-63 in Senate)



### **Roth Provisions**

- Catch-up contributions to 401(k), 403(b), and 457(b) plans MUST be Roth January 1, 2026
- Employer contributions MAY be offered as Roth
- No lifetime distributions required for in-plan Roth account (similar to Roth IRA)

# **2024 Retirement Plan Contribution Limits**

Plan	Normal Limit	"Age 50" Catch-up Limit	"Pre-Retirement" Catch-up Limit
457	\$23,000	\$7,500	\$23,000
401(a)	\$69,000	N/A	N/A
401(k)	\$23,000	\$7,500	N/A
403(b)	\$23,000	\$7,500	\$15,000 lifetime cap
IRA	\$7,000	\$1,000	N/A

N/A = Not applicable

### 457 Plans

The normal contribution limit for elective deferrals to a 457 deferred compensation plan is increased to \$23,000 in 2024. Employees age 50 or older may contribute an additional \$7,500 for a total of \$30,500. Employees taking advantage of the special pre-retirement catch-up may be eligible to contribute up to double the normal limit, for a total of \$46,000.

### 401(a) Plans

The total contribution limit for 401(a) defined contribution plans under section 415(c)(1)(A) increased from \$66,000 to \$69,000 for 2024. This includes both employer and employee contributions.

# Thank you!



#### BOARD OF TRUSTEES Cobb County Government Employees' Pension Plan Trust Other Post-Employment Benefits (OPEB) Trust Meeting of August 30, 2023 2nd Floor BOC Meeting Room/WebEx, 10:00 am

Present: Jim Harner, Trustee/Secretary Roger Tutterow, Chair Bill Volckmann, Trustee Sam Heaton, Vice Chair Absent: Sheriff Craig Owens, Trustee

A scheduled meeting of the Board of Trustees of the Cobb County Employees Retirement Plan was called to order by Roger Tutterow at 10:05 a.m. via In Person/WebEx. The following items of business were discussed:

I. Invitation for Public Comment No comments

#### **II.** Approval of Minutes

A motion was made by Jim Harner and seconded by Bill Volckmann to approve the minutes for the meeting of June 14, 2023.

Vote: 4 - 0, in favor.

#### III. Ratify Invoice Payments Approval

A motion was made by Roger Tutterow and seconded by Bill Volckmann to approve three (6) invoices totaling \$136,229.73 for OPEB, one (1) invoice totaling \$22,673.52 for the Defined Comp Plan, and seven (7) invoices totaling \$509,080.21 for the Employees Retirement Fund.

Vote: 4-0, in favor.

#### IV. Manager Report – Tweedy, Browne International Value – Conrad Schrader and Tom Schrader

V. Truist Report – Lisa Allen

#### VI. Asset Allocation Study – UBS – Earle Dodd, Austin Dodd, and Ryan Cox attended.

#### VII. New Business

The annual Pension presentation will be made to the Board of Commissioners' Work Session on October 24<sup>th</sup> at 1:30 p.m.

UBS recommends a rebalance Pension & OPEB accounts to their target for Fixed Income. A motion was made by Bill Volckmann to rebalance, seconded by Sam Heaton.

Vote: 4 - 0 in favor.

Roger Tutterow has a conflict with the December  $6^{th}$  meeting date and has asked that alternative dates for the Q3 meeting be proposed.

### VIII. Adjourn

Pension Meeting was adjourned at 11:22 a.m.

The next scheduled meeting date is Wednesday, December 6<sup>th</sup> from 10:00am – 11:00am. Location set for 2<sup>nd</sup> floor BOC Meeting Room, 100 Cherokee Street, Bldg. A., Marietta, Georgia

CERTIFIED CORRECT: Jim Harner Secretary Roger Tutterow Chair



# **UBS House View Presentation**

### **Chief Investment Office GWM**

December 2023



Year Ahead 2024

Don't miss the Year Ahead 2024 report, *A new world*, where we discuss the possible paths of the economy for the upcoming year. Visit ubs.com/houseview.

Comments or questions about this report?

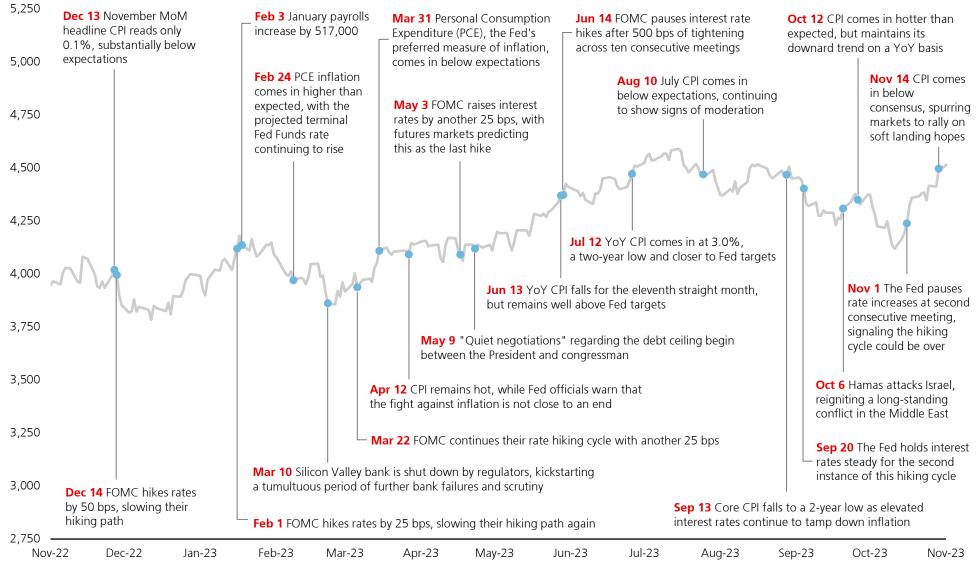


We welcome your feedback. E-mail us at <u>wmrfeedback@ubs.com</u>

This report has been prepared by UBS Financial Services Inc. (UBS FS). Please see important disclaimers and disclosures beginning at the end of this document.

### Stocks have rallied in the past month

### S&P 500 index level, with callouts for select news items



Source: Bloomberg, UBS, as of 17 November 2023



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## Asset class performance has been strong in the past month

### Performance, select asset classes

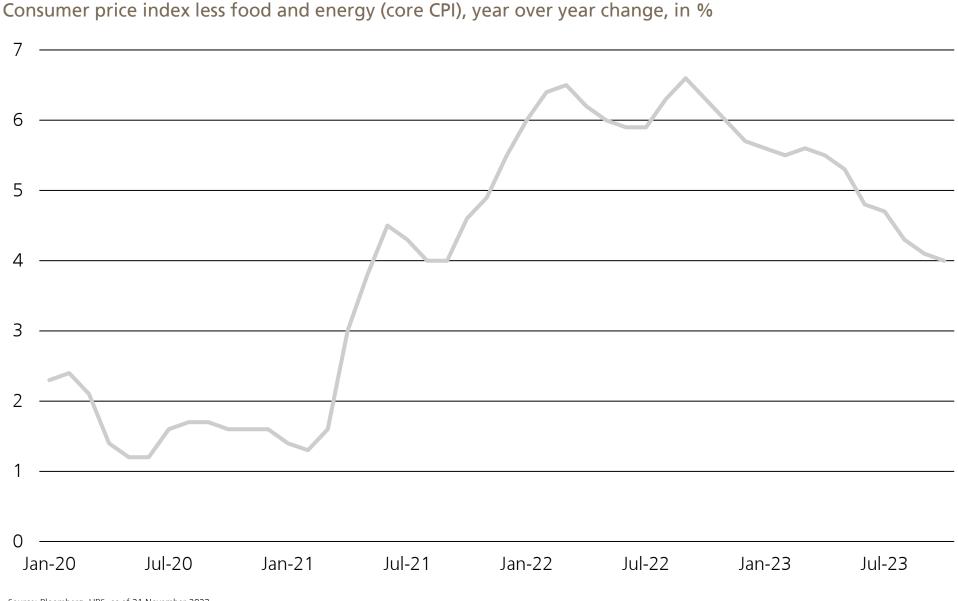
	1 month	YTD	4Q23	3Q23	FY 2022	YTD
Cash	0.5%	4.5%	0.8%	1.3%	1.5%	4.5%
US Gov't FI (short)	0.8%	2.7%	1.0%	0.7%	-3.8%	2.7%
US Gov't FI (intermediate)	2.7%	0.8%	1.6%	-1.9%	-10.5%	0.8%
US Gov't FI (long)	9.2%	-7.0%	2.8%	-13.0%	-31.0%	-7.0%
US TIPS	2.1%	0.7%	1.5%	-2.6%	-11.8%	0.7%
US Municipal Fl	4.4%	2.1%	3.5%	-3.9%	-8.5%	2.1%
US IG Corp FI	4.8%	2.6%	2.6%	-3.0%	-15.3%	2.6%
US HY Corp Fl	4.0%	8.1%	2.0%	0.5%	-11.2%	8.1%
EM FI (Hard)	5.5%	4.7%	2.9%	-2.2%	-17.8%	4.7%
EM FI (Local)	6.4%	9.3%	4.8%	-3.3%	-11.7%	9.3%
US All-cap	7.5%	18.5%	5.5%	-3.3%	-19.2%	18.5%
US Large cap growth	9.6%	36.3%	9.0%	-3.1%	-29.1%	36.3%
US Large cap value	5.1%	3.9%	2.1%	-3.2%	-7.5%	3.9%
US Mid cap	6.8%	6.8%	2.8%	-4.7%	-17.3%	6.8%
US Small cap	6.3%	2.6%	0.1%	-5.1%	-20.4%	2.6%
Int'l Developed Markets	7.8%	11.5%	4.1%	-4.1%	-14.5%	11.5%
Emerging Markets	6.9%	5.8%	3.9%	-2.9%	-20.1%	5.8%
Preferreds	7.7%	4.4%	1.3%	-2.0%	-20.7%	4.4%
MLPs	2.5%	25.5%	4.1%	9.9%	30.9%	25.5%
US Real Estate	7.2%	0.7%	2.9%	-7.1%	-24.4%	0.7%
Senior loans	0.9%	10.8%	1.1%	3.1%	-0.7%	10.8%

Source: Bloomberg, UBS, as of 21 November 2023



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## US inflation appears to be returning to target

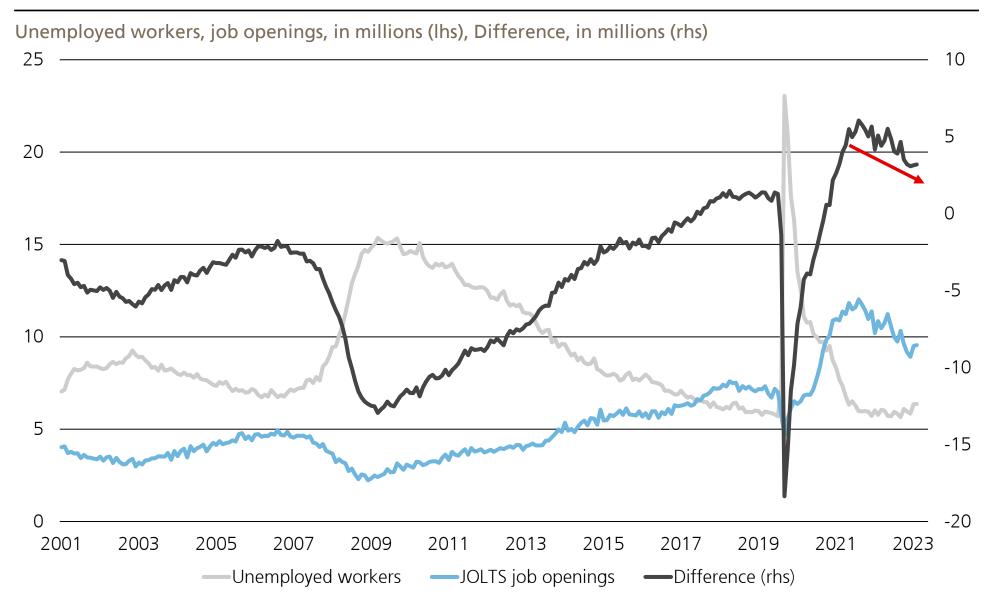


Source: Bloomberg, UBS, as of 21 November 2023



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## The labor market is beginning to soften



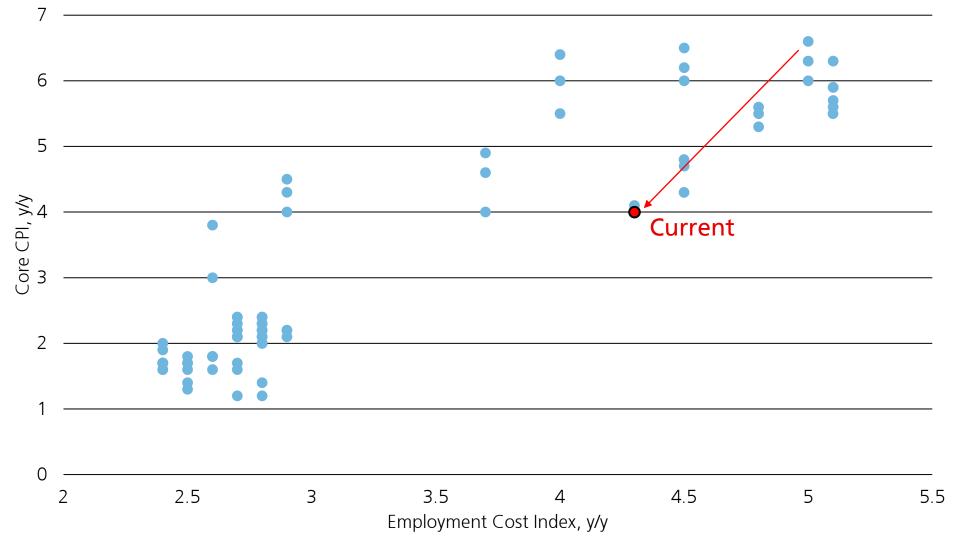
Source: Bloomberg, UBS, as of 21 November 2023





### Wage costs are falling in tandem with inflation

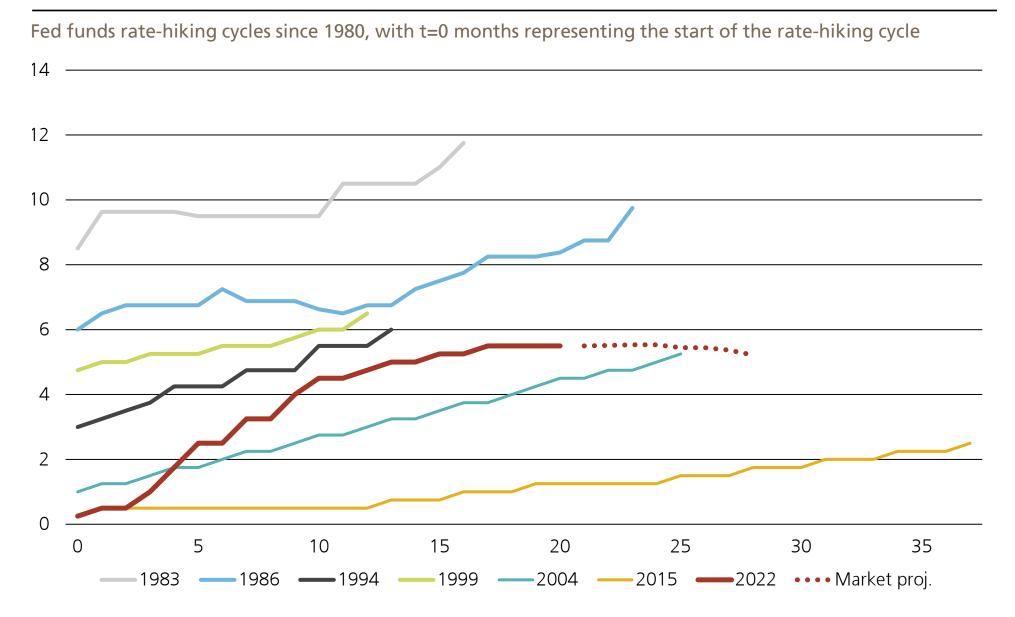
Monthly readings of employment cost index, y/y, core CPI, y/y, in %, since March 2017





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### The FOMC's rapid rate hikes appear close to an end

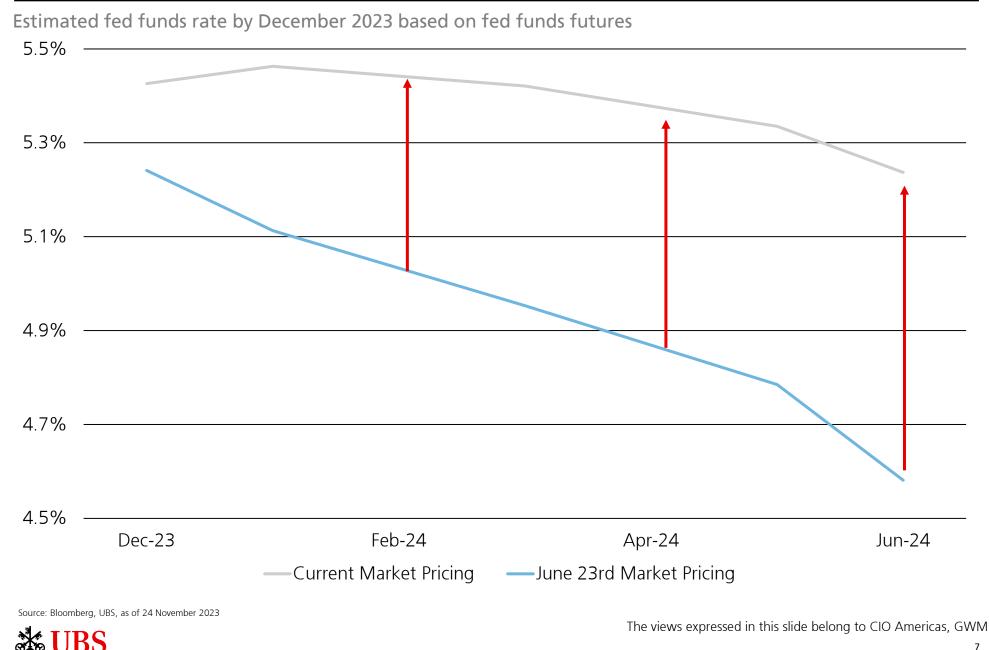


Source: Bloomberg, UBS, as of 24 November 2023



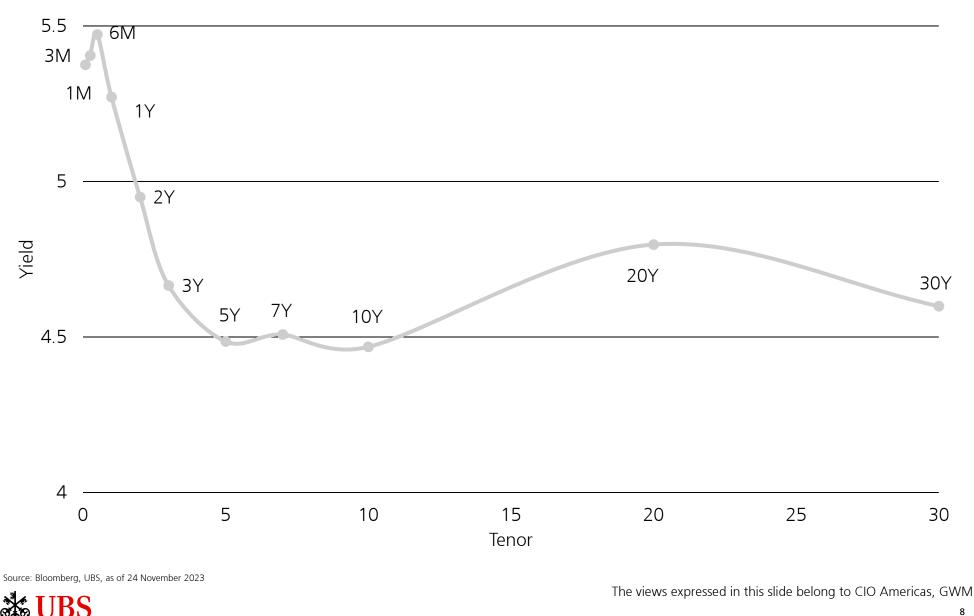
The views expressed in this slide belong to CIO Americas, GWM

## Markets are pricing in a higher fed funds rate for longer...



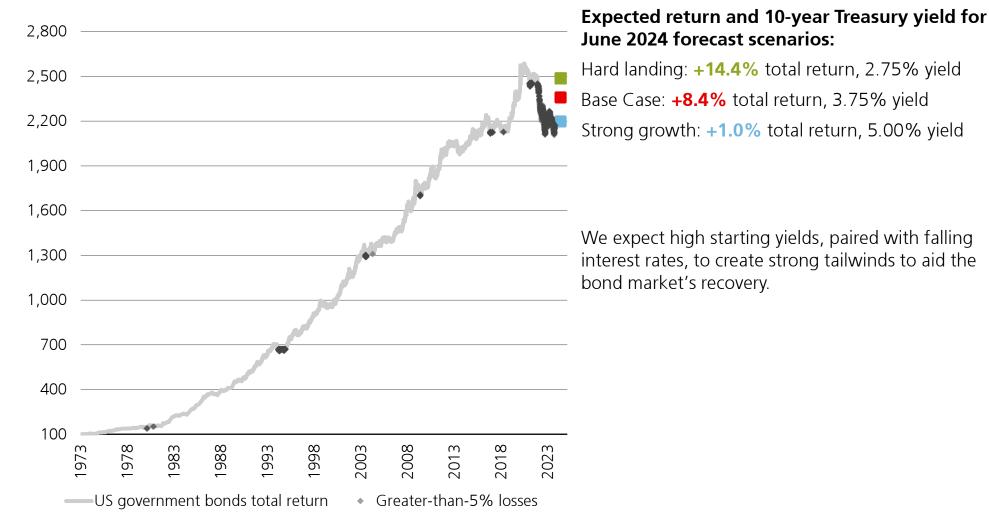
### ...as yields remain elevated across the curve

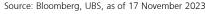




## Falling rates will help to drive strong bond returns

US Government Bond Index growth of 100 invested 31 January 1973, with markers for periods with a >5% loss (in total return) from the last all-time high. Callouts show expected growth based on June 2024 10-year Treasury yield forecast.



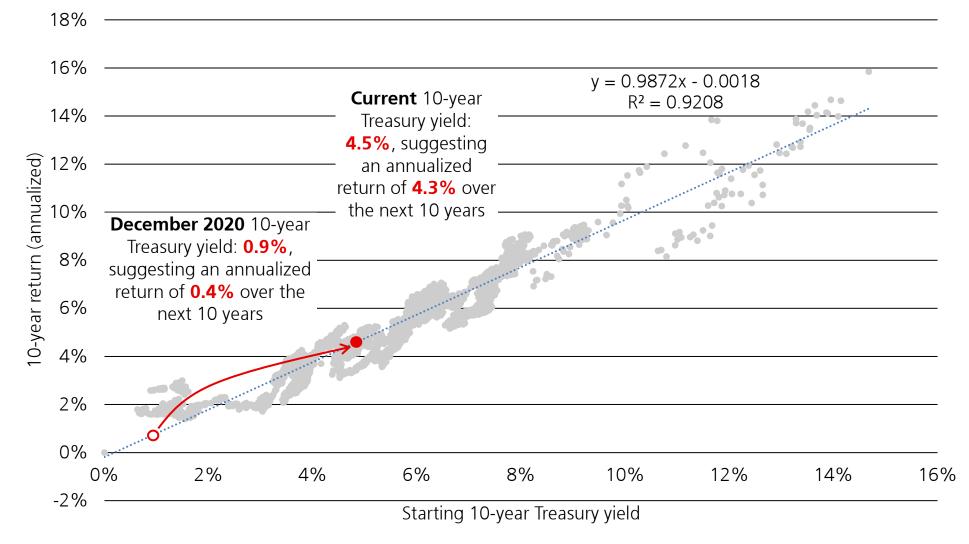




The views expressed in this slide belong to CIO Americas, GWM

## End of the bond bear? Higher yields boost the return outlook

10-year Treasury yield and returns for the Bloomberg Barclays US Aggregate Bond Index over the next 10 years, since 1978





The views expressed in this slide belong to CIO Americas, GWM

### With uncertainty, we recommend investors get in balance

### Upside

- Equity markets and other risk assets rally, while high quality bonds will be confronted with a high(er)-for-longer interest rates environment.
- The US continues to grow around the The US economy slows below trend trend rate of approx. 2% as labor markets, household balance sheets, and corporate earnings prove resilient.
- Inflation remains above central bank targets throughout next year.
- Monetary policy stays in restrictive territory. Major central banks keep interest rates "high for longer".
- Financial conditions ease as a better growth-inflation mix is priced in.
- The Middle East crisis de-escalates. The war in Ukraine deescalates, e.g., via a ceasefire agreement. Progress is made in bilateral relations between the US and China.

Source: UBS, as of 21 November 2023



- Equity markets remain volatile but continue to grind higher amid slow but stable growth, falling inflation and normalizing financial conditions.
- but continues to grow over the next 12 months.
- Inflation continues to slow in the US and in Europe but ends the year above central bank targets.
- Major central banks start cutting policy rates in 2024 as inflation normalizes
- Financial conditions ease gradually amid building expectations of upcoming monetary easing.
- The Middle Fast crisis results in a contained regional confrontation. The • war in Ukraine drags on as ceasefire negotiations remain elusive.

### Downside

- Global equities post double-digit losses and credit spreads widen. Safe haven assets such as high-quality bonds, gold, the Swiss franc, and the Japanese yen appreciate.
- Economic growth falls sharply on a global scale toward mid-2024 owing to the delayed impact of monetary tightening aimed at taming inflation.
- Inflation falls guickly as demand for goods and services collapses.
- Major central banks cut interest rates by 200bps or more from mid-2024 after seeing evidence of a deep recession.
- Financial conditions tighten dramatically, causing stress in the system and increasing the risk of systemic events.
- The Middle East crisis escalates, with potential for greater disruption to oil supply. The war in Ukraine escalates or US-China tensions intensify.

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## Falling chance of a recession has brightened market outlook

### UBS CIO central, downside, and upside June 2024 expectations

		June 2024 forecasts, projected change					
Index	Current (21 November)	Central scenario	Upside scenario	Downside scenario			
S&P 500	4,538	4,500 -0.8%	5,000 10.2%	3,500 -22.9%			
Euro Stoxx 50	4,332	4,600 6.2%	5,000 15.4%	3,340			
MSCI EM	985	1,050 6.6%	1,140 15.7%	760 -22.9%			
Swiss Market Index	10,782	11,300 4.8%	12,170 12.9%	8,990 -16.6%			
US IG spread (bps)	118	130 bps	80 bps	200 bps			
US HY spread (bps)	395	12 500 bps	-38 370 bps	82 850 bps			
	205	105 425 bps	-25 340 bps	455 600 bps			
EM USD sovereign bonds spread (bps)	395	30	-55	205			

Source: UBS, as of 21 November 2023



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## We expect IG bonds to outperform US stocks by about 9%

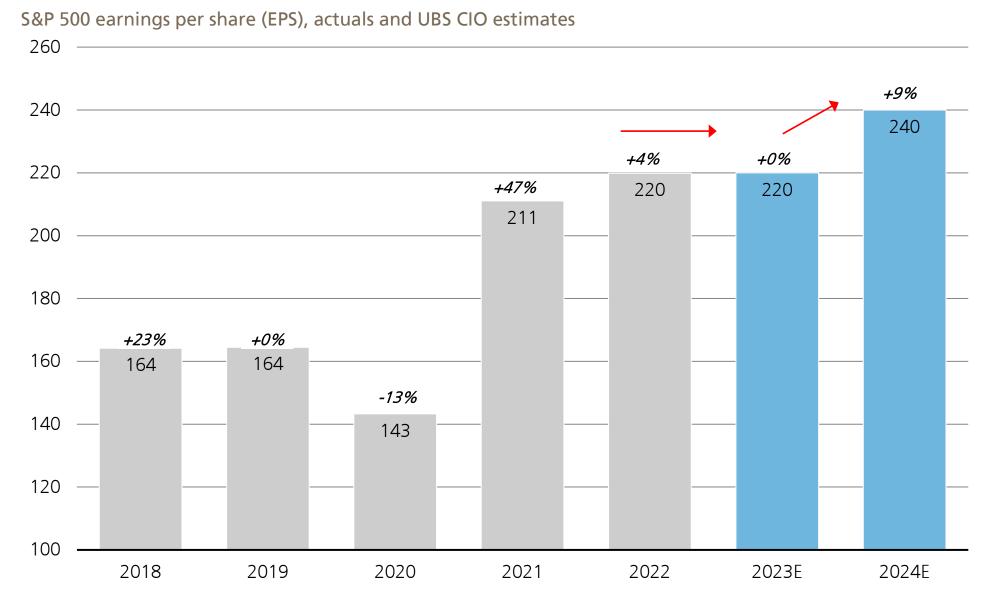
Relative returns from investment grade (IG) bonds and the S&P 500 by June 2024, given different yield and S&P 500 index scenarios

	use View Jun 4 forecast	le		Negative scenario					Base case	Current level			Positive scenario	
	June 2024 Iev		3,300	3,500	3,700	3,900	4,100	4,300	4,500	4,533	4,700	4,900	5,000	5,100
	Implied S&P	500 return	-26%	-22%	-17%	-13%	-9%	-4%	0%	1%	5%	9%	11%	13%
	June 2024 IG yield	Implied IG return	(Green	: IG Bor			decisiv	corpora ely; Blac <mark>00 outp</mark>	ck: IG B	onds ou		00) m mode	estly; <mark>Re</mark>	ed: S&P
	4.25%	14%	41%	36%	32%	27%	23%	19%	14%	13%	10%	5%	3%	1%
Negative scenario	4.75%	11%	37%	33%	28%	24%	20%	15%	11%	10%	6%	2%	-0%	-3%
Base case	5.05%	9%	35%	31%	26%	22%	17%	13%	9%	8%	4%	-0%	-2%	-5%
	5.28%	7%	34%	29%	25%	20%	16%	12%	7%	6%	3%	-2%	-4%	-6%
Positive scenario	5.80%	4%	30%	26%	21%	17%	12%	8%	4%	3%	-1%	-5%	-8%	-10%
Current yield	5.83%	4%	30%	25%	21%	17%	12%	8%	3%	3%	-1%	-6%	-8%	-10%
	6.13%	1%	28%	23%	19%	14%	10%	6%	1%	1%	-3%	-8%	-10%	-12%
	6.43%	-1%	26%	21%	17%	12%	8%	4%	-1%	-2%	-5%	-10%	-12%	-14%

The views expressed in this slide belong to CIO Americas, GWM

Source: Bloomberg, UBS estimates, as of 20 November 2023. IG Index used: Bloomberg US Aggregate Corporate Index. Expected S&P 500 return includes dividends.

### Earnings outlook starting to brighten



Source: FactSet, UBS, as of 24 November 2023





#### Statement of Risk

Equities - Stock market returns are difficult to forecast because of fluctuations in the economy, investor psychology, geopolitical conditions and other important variables.

**Fixed income** - Bond market returns are difficult to forecast because of fluctuations in the economy, investor psychology, geopolitical conditions and other important variables. Corporate bonds are subject to a number of risks, including credit risk, interest rate risk, liquidity risk, and event risk. Though historical default rates are low on investment-grade corporate bonds, perceived adverse changes in the credit quality of an issuer may negatively affect the market value of securities. As interest rates rise, the value of a fixed-coupon security will likely decline. Bonds are subject to market value fluctuations, given changes in the level of risk-free interest rates. Not all bonds can be sold quickly or easily on the open market. Prospective investors should consult their tax advisors concerning the federal, state, local, and non-US tax consequences of owning any securities referenced in this report.

**Preferred securities** - Prospective investors should consult their tax advisors concerning the federal, state, local, and non-US tax consequences of owning preferred stocks. Preferred stocks are subject to market value fluctuations, given changes in the level of interest rates. For example, if interest rates rise, the value of these securities could decline. If preferred stocks are sold prior to maturity, price and yield may vary. Adverse changes in the credit quality of the issuer may negatively affect the market value of the securities. Most preferred securities may be redeemed at par after five years. If this occurs, holders of the securities may be faced with a reinvestment decision at lower future rates. Preferred stocks are also subject to other risks, including illiquidity and certain special redemption provisions.

**Municipal bonds** - Although historical default rates are very low, all municipal bonds carry credit risk, with the degree of risk largely following the particular bond's sector. Additionally, all municipal bonds feature valuation, return, and liquidity risk. Valuation tends to follow internal and external factors, including the level of interest rates, bond ratings, supply factors, and media reporting. These can be difficult or impossible to project accurately. Also, most municipal bonds are callable and/or subject to earlier-than-expected redemption, which can reduce an investor's total return. Because of the large number of municipal issuers and credit structures, not all bonds can be easily or quickly sold on the open market.

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UBS does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of UBS research reports.

#### **Explanations about asset classes**

Our preferences represent the longer-term allocation of assets that is deemed suitable for a particular investor and were developed and approved by the US Investment Strategy Committee. Our preferences are provided for illustrative purposes only and will differ among investors according to their individual circumstances, risk tolerance, return objectives and time horizon. Therefore, our preferences in this publication may not be suitable for all investors or investment goals and should not be used as the sole basis of any investment decision. Minimum net worth requirements may apply to allocations to non-traditional assets. As always, please consult your UBS Financial Advisor to see how our preferences should be applied or modified according to your individual profile and investment goals.

Our preferences does not assure profits or prevent against losses from an investment portfolio or accounts in a declining market.





#### **Emerging Market Investments**

Investors should be aware that Emerging Market assets are subject to, amongst others, potential risks linked to currency volatility, abrupt changes in the cost of capital and the economic growth outlook, as well as regulatory and socio-political risk, interest rate risk and higher credit risk. Assets can sometimes be very illiquid and liquidity conditions can abruptly worsen. CIO GWM generally recommends only those securities it believes have been registered under Federal U.S. registration rules (Section 12 of the Securities Exchange Act of 1934) and individual State registration rules (commonly known as "Blue Sky" laws). Prospective investors should be aware that to the extent permitted under US law, CIO GWM may from time to time recommend bonds that are not registered under US or State securities laws. These bonds may be issued in jurisdictions where the level of required disclosures to be made by issuers is not as frequent or complete as that required by US laws.

Investors interested in holding bonds for a longer period are advised to select the bonds of those sovereigns with the highest credit ratings (in the investment grade band). Such an approach should decrease the risk that an investor could end up holding bonds on which the sovereign has defaulted. Sub-investment grade bonds are recommended only for clients with a higher risk tolerance and who seek to hold higher yielding bonds for shorter periods only.

#### Nontraditional Assets

Nontraditional asset classes are alternative investments that include hedge funds, private equity, real estate, and managed futures (collectively, alternative investments).

Interests of alternative investment funds are sold only to qualified investors, and only by means of offering documents that include information about the risks, performance and expenses of alternative investment funds, and which clients are urged to read carefully before subscribing and retain. An investment in an alternative investment fund is speculative and involves significant risks. Specifically, these investments

(1) are not mutual funds and are not subject to the same regulatory requirements as mutual funds;

(2) may have performance that is volatile, and investors may lose all or a substantial amount of their investment;

(3) may engage in leverage and other speculative investment practices that may increase the risk of investment loss;

(4) are long-term, illiquid investments; there is generally no secondary market for the interests of a fund, and none is expected to develop;

(5) interests of alternative investment funds typically will be illiquid and subject to restrictions on transfer;

(6) may not be required to provide periodic pricing or valuation information to investors;

(7) generally involve complex tax strategies and there may be delays in distributing tax information to investors;

(8) are subject to high fees, including management fees and other fees and expenses, all of which will reduce profits.

Interests in alternative investment funds are not deposits or obligations of, or guaranteed or endorsed by, any bank or other insured depository institution, and are not federally insured by the Federal Deposit Insurance Corporation, the Federal Reserve Board, or any other governmental agency. Prospective investors should understand these risks and have the financial ability and willingness to accept them for an extended period of time before making an investment in an alternative investment fund and should consider an alternative investment fund as a supplement to an overall investment program.

In addition to the risks that apply to alternative investments generally, the following are additional risks related to an investment in these strategies:

Hedge Fund Risk: There are risks specifically associated with investing in hedge funds, which may include risks associated with investing in short sales, options, small-cap stocks, "junk bonds," derivatives, distressed securities, non-US securities and illiquid investments.

Managed Futures: There are risks specifically associated with investing in managed futures programs. For example, not all managers focus on all strategies at all times, and managed futures strategies may have material directional elements.

Real Estate: There are risks specifically associated with investing in real estate products and real estate investment trusts. They involve risks associated with debt, adverse changes in general economic or local market conditions, changes in governmental, tax, real estate and zoning laws or regulations, risks associated with capital calls and, for some real estate products, the risks associated with the ability to qualify for favorable treatment under the federal tax laws.

Private Equity: There are risks specifically associated with investing in private equity. Capital calls can be made on short notice, and the failure to meet capital calls can result in significant adverse consequences including, but not limited to, a total loss of investment.

Foreign Exchange/Currency Risk: Investors in securities of issuers located outside of the United States should be aware that even for securities denominated in US dollars, changes in the exchange rate between the US dollar and the issuer's "home" currency can have unexpected effects on the market value and liquidity of those securities. Those securities may also be affected by other risks (such as political, economic or regulatory changes) that may not be readily known to a US investor.





Paul Donovan

#### **Global Investment Process and Committee Description**

The UBS investment process is designed to achieve replicable, high-quality results through applying intellectual rigor, strong process governance, clear responsibility and a culture of challenge.

Based on the analyses and assessments conducted and vetted throughout the investment process, the Chief Investment Officer (CIO) formulates the UBS Wealth Management Investment House View preferences at the Global Investment Committee (GIC). Senior investment professionals from UBS, complemented by selected external experts, debate and rigorously challenge the investment strategy to ensure consistency and risk control.

#### **Global Investment Committee Composition**

The GIC comprises top market and investment expertise from UBS:

- Mark Haefele (Chair)
   Solita Marcelli
- Tan Min Lin

Adrian Zuercher

- Themis Themistocleous
- Mark Anderson

(\*) Business area distinct from Chief Investment Office Global Wealth Management

• Bruno Marxer(\*)

#### **US Investment Strategy Committee description**

We recognize that a globally derived house view is most effective when complemented by local perspective and application. As such, UBS has formed a Global Wealth Management US Investment Strategy Committee.

US Investment Strategy Committee Composition

• Solita Marcelli •	Jason Draho (chair)	• Leslie Falconio
---------------------	---------------------	-------------------

David Lefkowitz
 Brian Rose
 Daniel Scansaroli

#### **Cautionary statement regarding forward-looking statements**

This report contains statements that constitute "forward-looking statements", including but not limited to statements relating to the current and expected state of the securities market and capital market assumptions. While these forward-looking statements represent our judgments and future expectations concerning the matters discussed in this document, a number of risks, uncertainties, changes in the market, and other important factors could cause actual developments and results to differ materially from our expectations. These factors include, but are not limited to (1) the extent and nature of future developments in the US market and in other market segments; (2) other market and macro-economic developments, including movements in local and international securities markets, credit spreads, currency exchange rates and interest rates, whether or not arising directly or indirectly from the current market crisis; (3) the impact of these developments on other markets and asset classes. UBS is not under any obligation to (and expressly disclaims any such obligation to) update or alter its forward-looking statements whether as a result of new information, future events, or otherwise.

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UBS <u>Cobb County Government Employees' Pension Plan</u> Asset Class Summary																
Style Analysis																
As of November 22, 2023		%		arge Cap	Large Cap	Large Cap	Mid Cap	Small Cap	Small Cap	~			Fixed	~ .		Total
Manager/Accounts	Account #:	Assets		<u>Growth</u>	Blend	Value	Blend	<u>Growth</u>	Value	<u>Globa</u>	<u> </u>	International	Income	<u>Cash</u>	1	<u>Portfolio</u>
тсw	XXXXX76	6.2%	\$	55,331,153											\$	55,331,153
Westfield Capital Management	XXXXX32	6.8%	\$	60,083,443											\$	60,083,443
Vanguard S&P 500 (VINIX)	XXXXX66	12.2%			\$ 108,349,879										\$	108,349,879
Eagle Capital	XXXXX85	12.3%				\$ 109,660,013									\$	109,660,013
Vanguard Mid Cap (VMCIX)	XXXXX66	6.7%					\$ 59,757,806								\$	59,757,806
Fuller & Thaler SCG	XXXXX85	2.9%						\$ 25,355,887							\$	25,355,887
Vaughan Nelson	XXXXX49	3.5%							\$ 31,449,281						\$	31,449,281
BlackRock Global Allocation (MALOX)	XXXXX66	2.7%								\$ 23,54	4,415				\$	23,544,415
First Eagle Global (SGIIX)	XXXXX66	3.4%								\$ 30.16	8,200				\$	30,168,200
Loomis Sayles Global Equity & Income(LSWWX)	XXXXX66	3.2%								\$ 28,40					\$	28,401,436
Vanguard Total Int'l Stock (VTSNX)	XXXXX66	5.2%									\$	45,833,404			\$	45,833,404
Vanguard International Growth (VWILX)	XXXXX66	5.5%									\$	49,199,648			\$	49,199,648
Tweedy Browne Global Value (TBGVX)	XXXXX66	4.8%									\$	42,513,067			\$	42,513,067
Richmond	XXXXX37	10.2%											\$ 90,655,212		\$	90,655,212
BlackRock Strategic Income Opps (BSIIX)	XXXXX66	7.4%											\$ 65,990,603		\$	65,990,603
Delaware Diversified Income (CIT & MF)	XXXXX84	7.0%											\$ 61,736,001		\$	61,736,001
Total		100%	\$	115,414,596	\$ 108,349,879	\$ 109,660,013	\$ 59,757,806	\$ 25,355,887	\$ 31,449,281	\$ 82,11	4,050 \$	137,546,119	\$ 218,381,816	s -	\$	888,029,446
Current Allocation				13.00%	12.20%	12.35%	6.73%	2.86%	3.54%	9.25%	)	15.49%	24.59%	0.00%		100%
Target Allocation				<u>11.00%</u>	<u>11.00%</u>	<u>11.00%</u>	<u>6.00%</u>	<u>3.00%</u>	<u>3.00%</u>	<u>10.00%</u>	<u>6</u>	<u>20.00%</u>	<u>25.00%</u>			<u>100%</u>
Difference in %				2.00%	1.20%	1.35%	0.73%	-0.14%	0.54%	-0.75%	6	-4.51%	-0.41%			

Earle Dodd & Austin Dodd

Senior Institutional Consultant

Senior Vice President - Wealth Management

(404)760-3000

Dollar values above are rounded to the nearest dollar.

Page 1 of 2

# Cobb County Employees' Pension Plan Asset Class Summary Market Value As of: November 22, 2023

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Sources: Custodial Statement; IPS; Client Request or Advisor Recommendation

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#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price

# **Total Portfolio - Pension**

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

# Cobb County Employees Retirement System September 30, 2023

# **Accounts Included in this Report**

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Account Name	Account Number	Custodian Name
Vaughan Nelson	79xxx49	SunTrust Bank
Tweedy Browne Global Value	79xxx35	SunTrust Bank
Multiple Funds	11xxx66	SunTrust Bank
Blackrock Global Allocation Fund	79xxx61	SunTrust Bank
First Eagle Global Fund	79xxx62	SunTrust Bank
Natixis Loomis Sayles Global Equity	79xxx63	SunTrust Bank
Vanguard Total International Stock Fund	79xxx53	SunTrust Bank
Richmond Capital Management	79xxx37	SunTrust Bank
Vanguard Midcap Index Fund	11xxx24	SunTrust Bank
Westfield Capital Large Growth	79xxx32	SunTrust Bank
TCW Large Cap Growth	79xxx76	SunTrust Bank
Vanguard 500 Index	11xxx18	SunTrust Bank
Eagle Capital Large Value	11xxx14	SunTrust Bank
Multiple Funds	79xxx84	SunTrust Bank
Blackrock Strategic Income Opps Fund	79xxx86	SunTrust Bank

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**Performance Analysis** 

# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

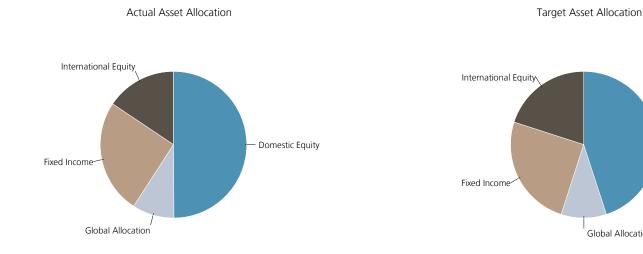
# CONSOLIDATED PORTFOLIO BENCHMARK

- 07/01/2013 Present
  - 45% Russell 3000
  - 25% Bloomberg US Aggregate Bond
  - 20% MSCI AC World X US Net
  - 10% HFRX Global Hedge Fund Index
- 10/01/2010 06/30/2013
  - 45% Russell 3000
  - 30% Bloomberg US Aggregate Bond
  - 15% MSCI Net EAFE
  - 10% HFRX Global Hedge Fund Index
- 04/01/2010 09/30/2010
  - 42% Russell 3000
  - 35% Bloomberg US Aggregate Bond
  - 13% MSCI Net EAFE
  - 10% HFRX Global Hedge Fund Index
- 10/01/2009 03/31/2010
  - 50% Russell 3000
  - 35% Bloomberg US Aggregate Bond
  - 15% MSCI Net EAFE

#### 06/30/1994 - 09/30/2009

- 45% Bloomberg US Aggregate Bond
- 45% Russell 3000
- 10% MSCI Net EAFE

# **Actual vs Target Asset Allocation** As of September 30, 2023



Market Value Percent Market Value Percent Market Value Percent Actual Actual Target Target Difference Difference Fixed Income 214,820,384.0 25.3% 212,630,490.0 25.0% 0.3% 2,189,894.0 Domestic Equity 424,442,139.1 49.9% 45.0% 41,707,257.0 4.9% 382,734,882.1 International Equity 132,589,857.1 15.6% 170,104,392.0 20.0% (37,514,534.9) (4.4%)**Global Allocation** 78,669,580.0 9.2% 85,052,196.0 10.0% (6,382,616.1) (0.8%) Total Fund \$850,521,960.1 100.0% \$850,521,960.1 100.0% \$0.0 0.0%

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Domestic Equity

Global Allocation

# Performance Summary - Gross of Fees Cobb County Employees Retirement System As of September 30, 2023

A	Inception	09/30/2023	Latest		VTD	%tile	1 Xaar	%tile	3	%tile	5	%tile Banking	7 Халж	%tile	
Account Composite	<b>Date</b> 06/30/1994	Market Value	<b>QTR</b> -2.91%	Ranking	<b>YTD</b> 10.01%	Ranking	17.37%	Ranking	Year 4.43%	Ranking	6.04%	Ranking	Year 7.67%	Ranking	gInception 7.98%
Policy Index	00/30/1994	\$850,521,960	-2.91%		6.46%		13.54%		4.45 % 3.98%		5.16%		6.58%		7.38%
Dynamic Index			-3.09%		6.27%		13.10%		4.10%		5.05%		6.57%		7.5070
Fixed Income			-5.09%		0.27 70		15.1070		4.10%		5.05%	)	0.37 70		
Richmond Capital Management	07/31/2007	\$89,409,719	-2.83%	13	-0.41%	14	1.64%	6	-4.82%	25	0.79%	2	0.50%	5	3.30%
Barclays Govt/Credit	0775172007	\$09,409,719	-3.00%	25	-0.85%		0.93%		-5.32%	63	0.41%		0.09%		2.83%
Blackrock Strategic Income Opps Fund	05/31/2011	\$65,009,276	-0.32%	48	1.69%		3.36%	66	0.34%	45	2.23%		2.46%	15	2.68%
Bloomberg US Agg	03/31/2011	\$05,009,270	-3.23%	99	-1.21%		0.64%		-5.21%	99	0.10%		-0.09%		1.47%
Delaware Diversified Income Fund	05/31/2011	\$45,851,584	-3.06%	53	-0.53%		2.35%	7	-4.31%	24	0.94%		0.75%	15	1.93%
BB Agg Bond	03/31/2011	\$45,651,564	-3.23%	67	-1.21%		0.64%		-5.21%	70	0.94%		-0.09%		1.47%
Delaware Diversified Income I	05/08/2023	\$14,549,805	-2.96%	40	-1.21/0	/1	0.04 /0	05	-J.2170	70	0.1070	0 00	-0.0970	/1	-2.99%
BB Universal	05/06/2025	\$14,549,605	-2.88%	33											-2.99%
Large Cap Value			-2.00 /0	55											-0.00/0
Eagle Capital Large Value	12/31/2002	\$102,901,475	0.74%	1	25.92%	1	36.33%	1	13.63%	36	10.06%	4	13.28%	1	12.84%
Russell 1000 Value	12/31/2002	\$102,901,475	-3.16%	75	1.79%		14.44%	· ·	11.05%	70	6.23%		7.92%	<u> </u>	8.59%
50%SP500/50%Rus1V			-3.21%	77	7.32%		18.02%		10.67%	70	8.12%		10.11%		9.36%
Large Cap Core			-3.2170	//	1.52 70	15	10.0270	29	10.07 70	/4	0.1270	20	10.1170	20	9.00%
Vanguard 500 Index	05/31/1999	\$102,139,867	-3.27%	48	13.05%	20	21.59%	25	10.13%	25	9.86%	12	12.19%	10	7.08%
S&P 500 Index	03/31/1999	\$102,159,607	-3.27%	40	13.07%		21.62%		10.15%	23	9.92%		12.19%		7.01%
Large Cap Growth			-5.2770	47	13.07%	19	21.02%	24	10.15%	24	9.9270	) 9	12.24%	0	7.0170
TCW Large Cap Growth	04/30/2013	\$50,686,039	-3.42%	58	24.42%	30	28.02%	26	3.57%	79	10.29%	57	13.76%	62	13.03%
Russell 1000 Growth	04/30/2015	\$20,000,059	-3.13%	46	24.42%		28.02%		7.97%	36	12.42%		15.64%		14.71%
	07/31/2007	¢E4.01E.220		24	24.98%		27.72%	28 29	6.97%	54	12.42%		15.04%	23	10.38%
Westfield Capital Large Growth Russell 1000 Growth	07/31/2007	\$54,915,238	-2.41% -3.13%	24 46					0.97% 7.97%	36					
Mid Cap Core			-5.15%	40	24.98%	21	27.72%	20	1.9170	50	12.42%	0 15	15.64%	10	11.40%
•	05/31/2004	¢ E 7 006 7 E 2	-5.07%	78	3.30%	61	12.61%	63	7.27%	76	6.50%	23	8.70%	25	9.51%
Vanguard Midcap Index Fund Russell Midcap	05/31/2004	\$57,986,752	-5.07%	63	3.91%		13.45%		8.09%	65	6.38%		8.68%		9.51%
			-4.00%	65	5.9170	45	15.45%	55	0.09%	65	0.3070	) 2/	0.0070	20	9.2070
Small Cap Value	04/20/2000		4 100/	70	11 670/	1	20.020/	1 Г	10.070/	17	0 220/	1	0.000/	17	12 520/
Vaughan Nelson Russell 2000 Value	04/30/2009	\$30,895,618	-4.19% -2.96%	79 59	11.67% -0.53%		20.92% 7.84%	15 94	19.97% 13.32%	17 <i>81</i>	9.22%		9.88% 5.94%	17 89	13.52% <i>10.16%</i>
			-2.90%	29	-0.53%	00	7.64%	94	13.32%	01	2.59%	50 95	5.94%	09	10.10%
Small Cap Growth	05/10/2022	¢04017154	2 210/	1											
Fuller & Thaler Small Cap Growth	05/16/2023	\$24,917,151	-2.31%	67											5.07%
Russell 2000 Growth			-7.32%	6/											0.37%

# Performance Summary - Gross of Fees Cobb County Employees Retirement System As of September 30, 2023

	Inception	09/30/2023	Latest	%tile		%tile	1	%tile	3	%tile	5	%tile	7	%tile	
Account	Date	Market Value	QTR	Ranking	YTD	Ranking	Year	Ranking	Year	Ranking	Year	Ranking	Year	Ranking	Inception
International Equity															
Vanguard Total International Stock Fund	11/30/2006	\$44,135,729	-4.01%	23	5.04%	61	20.50%	76	3.89%	55	2.76%	51	4.82%	46	2.95%
International Index			-3.77%	17	5.34%	55	20.39%	77	3.74%	57	2.58%	64	4.73%	50	2.49%
Vanguard International Growth	02/06/2019	\$46,665,803	-9.17%	73	3.09%	65	16.10%	75	-4.69%	83					6.16%
MSCI AC WId x US Grw			-7.26%	34	2.90%	69	16.22%	, 75	-1.56%	56					3.80%
Tweedy Browne Global Value	04/10/2019	\$41,788,325	-1.70%	32	6.40%	80	17.11%	99	9.19%	41					3.20%
MSCI AC WId x US Val			0.07%	6	8.87%	41	26.09%	, 70	10.30%	24					3.57%
Global Allocation															
Natixis Loomis Sayles Global Equity	11/30/2015	\$26,941,780	-2.98%	33	9.23%	1	19.16%	1	1.36%	73	5.07%	5	7.00%	1	6.81%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76	2.21%	95	1.97%
First Eagle Global Fund	03/31/2010	\$29,193,191	-3.72%	57	5.32%	15	19.42%	1	7.31%	5	5.94%	1	6.16%	3	7.15%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76	2.21%	95	1.23%
Blackrock Global Allocation Fund	03/31/2010	\$22,534,609	-4.15%	82	2.60%	46	8.96%	76	1.09%	78	4.04%	22	4.77%	21	5.01%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76	2.21%	95	1.23%
Composite Global Allocation	03/31/2010	\$78,669,580	-3.59%	50	5.81%	8	16.14%	4	3.33%	47	5.08%	5	6.02%	4	6.32%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76	2.21%	95	1.23%

# Performance Summary - Net of Fees Cobb County Employees Retirement System As of September 30, 2023

	Inception	09/30/2023	Latest			%tile	1	%tile	3	%tile	5	%tile	7	%tile	
Account	Date	Market Value		Ranking		Ranking		Ranking		Ranking				Ranking	Inception
Composite Policy Index	06/30/1994	\$850,521,960	-2.94% -2.92%		9.89% 6.46%		17.21% <i>13.54</i> %		4.21% 3.98%		5.81% 5.16%		7.43% 6.58%		7.71% 7.38%
Policy Index															1.38%
Dynamic Index			-3.09%		6.27%	1	13.10%		4.10%		5.05%	1	6.57%		
Fixed Income	07/21/2007	¢00 400 740	2 070/	4 5		10	1 450/	0	F 000/	24	0.000/	0	0.210/	1.4	2.000/
Richmond Capital Management	07/31/2007	\$89,409,719	-2.87%	15	-0.55%		1.45%	9	-5.00%	34	0.60%		0.31%	14	3.08%
Barclays Govt/Credit	05/04/0044	<i><b>*</b>&lt;<b>- • • • • • • • • • •</b></i>	-3.00%	25	-0.85%		0.93%		-5.32%	63	0.41%		0.09%		2.83%
Blackrock Strategic Income Opps Fund	05/31/2011	\$65,009,276	-0.32%	48	1.69%		3.36%	66	0.34%	45	2.23%		2.46%	15	2.68%
Bloomberg US Agg			-3.23%	99	-1.21%		0.64%		-5.21%	99	0.10%		-0.09%		1.47%
Delaware Diversified Income Fund	05/31/2011	\$45,851,584	-3.06%	53	-0.53%		2.35%	7	-4.31%	24	0.94%		0.75%		1.93%
BB Agg Bond			-3.23%	67	-1.21%	71	0.64%	65	-5.21%	70	0.10%	56	-0.09%	71	1.47%
Delaware Diversified Income I	05/08/2023	\$14,549,805	-2.96%	40											-2.99%
BB Universal			-2.88%	33											-3.03%
Large Cap Value															
Eagle Capital Large Value	12/31/2002	\$102,901,475	0.74%	1	25.92%		36.33%	1	13.12%	40	9.43%		12.58%	1	11.98%
Russell 1000 Value			-3.16%	75	1.79%		14.44%	64	11.05%	70	6.23%		7.92%		8.59%
50%SP500/50%Rus1V			-3.21%	77	7.32%	13	18.02%	29	10.67%	74	8.12%	28	10.11%	28	9.36%
Large Cap Core															
Vanguard 500 Index	05/31/1999	\$102,139,867	-3.27%	48	13.05%	20	21.59%	25	10.13%	25	9.86%	12	12.19%	10	7.08%
S&P 500 Index			-3.27%	47	13.07%	19	21.62%	24	10.15%	24	9.92%	9	12.24%	8	7.01%
Large Cap Growth															
TCW Large Cap Growth	04/30/2013	\$50,686,039	-3.42%	58	23.83%	33	27.41%	32	3.02%	80	9.61%		13.09%	73	12.37%
Russell 1000 Growth			-3.13%	46	24.98%	21	27.72%	28	7.97%	36	12.42%	15	15.64%	10	14.71%
Westfield Capital Large Growth	07/31/2007	\$54,915,238	-2.54%	28	23.70%	33	27.04%	34	6.39%	59	10.86%	44	14.48%	43	9.76%
Russell 1000 Growth			-3.13%	46	24.98%	21	27.72%	28	7.97%	36	12.42%	15	15.64%	10	11.40%
Mid Cap Core															
Vanguard Midcap Index Fund	05/31/2004	\$57,986,752	-5.07%	78	3.30%	61	12.61%	63	7.27%	76	6.50%	23	8.70%	25	9.51%
Russell Midcap			-4.68%	63	3.91%	45	13.45%	55	8.09%	65	6.38%	27	8.68%	26	9.28%
Small Cap Value															
Vaughan Nelson	04/30/2009	\$30,895,618	-4.40%	83	10.74%	2	19.91%	20	18.93%	23	8.22%	8	8.85%	33	12.44%
Russell 2000 Value		. , ,	-2.96%	59	-0.53%		7.84%	94	13.32%	81	2.59%		5.94%		10.16%
Small Cap Growth															
Fuller & Thaler Small Cap Growth	05/16/2023	\$24,917,151	-2.31%	1											5.07%
Russell 2000 Growth		<i>42.75.77.5</i> 1	-7.32%	67											0.37%
															0.07 ,0

# Performance Summary - Net of Fees Cobb County Employees Retirement System As of September 30, 2023

	Inception	09/30/2023	Latest	%tile		%tile	1	%tile	3	%tile	5	%tile	7	%tile	
Account	Date	Market Value	QTR	Ranking	YTD	Ranking	Year	Ranking	Year	Ranking	Year	Ranking	Year	Ranking	Inception
International Equity															
Vanguard Total International Stock Fund	11/30/2006	\$44,135,729	-4.01%	23	5.04%	61	20.50%	76	3.89%	55	2.76%	51	4.82%	46	2.95%
International Index			-3.77%	17	5.34%	55	20.39%	77	3.74%	57	2.58%	64	4.73%	50	2.49%
Vanguard International Growth	02/06/2019	\$46,665,803	-9.17%	73	3.09%	65	16.10%	75	-4.69%	83					6.16%
MSCI AC WId x US Grw			-7.26%	34	2.90%	69	16.22%	75	-1.56%	56					3.80%
Tweedy Browne Global Value	04/10/2019	\$41,788,325	-1.70%	32	6.40%	80	17.11%	99	9.19%	41					3.20%
MSCI AC WId x US Val			0.07%	6	8.87%	41	26.09%	70	10.30%	24					3.57%
Global Allocation															
Natixis Loomis Sayles Global Equity	11/30/2015	\$26,941,780	-2.98%	33	9.23%	1	19.16%	1	1.36%	73	5.07%	5	7.00%	1	6.81%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76	2.21%	95	1.97%
First Eagle Global Fund	03/31/2010	\$29,193,191	-3.72%	57	5.32%	15	19.42%	1	7.31%	5	5.94%	1	6.16%	3	7.15%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76	2.21%	95	1.23%
Blackrock Global Allocation Fund	03/31/2010	\$22,534,609	-4.15%	82	2.60%	46	8.96%	76	1.09%	78	4.04%	22	4.77%	21	5.01%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76	2.21%	95	1.23%
Composite Global Allocation	03/31/2010	\$78,669,580	-3.59%	50	5.81%	8	16.14%	4	3.33%	47	5.08%	5	6.02%	4	6.32%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76	2.21%	95	1.23%

# **Cobb County Employees Retirement System**

# Period Ending September 30, 2023

Account Values							
	Latest Quarter	Fiscal YTD	Year to Date	One Year	Three Years	Five Years	Since Inception
Beginning Mkt Value	\$876,330,463.60	\$778,391,183.45	\$778,391,183.45	\$730,004,316.93	\$769,509,849.95	\$665,107,993.26	\$76,718,742.24
Net Contributions	(\$203,586.78)	(\$4,474,380.54)	(\$4,474,380.54)	(\$4,473,223.18)	(\$18,955,261.79)	(\$29,197,178.74)	\$117,878,783.76
Investment Earnings	(\$25,604,916.69)	\$76,708,412.17	\$76,708,412.17	\$125,315,016.50	\$100,577,988.65	\$215,221,762.29	\$656,605,381.39
Ending Mkt Value	\$850,521,960.13	\$850,521,960.13	\$850,521,960.13	\$850,521,960.13	\$850,521,960.13	\$850,521,960.13	\$850,521,960.13

Returns												Since
	Latest	Quarter	Fiscal YTD	Calendar YTD	One Year	Three `	Years I	ive Years	Ten Years	Fift	een Years	Inception
Account	-2	.94%	9.89%	9.89%	17.21%	4.21	%	5.81%	7.01%		5.74%	7.71%
Policy Index	-2	.92%	6.46%	6.46%	13.54%	3.98	%	5.16%	6.34%		5.39%	7.38%
Difference	-0	.01%	3.43%	3.43%	3.67%	0.23	%	0.65%	0.67%		0.35%	0.34%
Calendar Year R	aturns											
	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Account	9.89%	-20.01%	14.85%	19.29%	22.88%	-5.90%	17.87%	6.21%	-0.10%	6.60%	20.18%	12.77%
Policy Index	6.46%	-15.28%	12.67%	14.69%	21.18%	-5.73%	16.12%	7.64%	-0.96%	6.22%	18.13%	11.67%
Difference	3.43%	-4.73%	2.19%	4.59%	1.70%	-0.18%	1.75%	-1.43%	0.86%	0.38%	2.05%	1.10%

Policy Index: 45% Russell 3000, 25% Bloomberg US Aggregate Bond, 20% MSCI AC World X US Net, 10% HFRX Global Hedge Fund Index

#### Cobb County Employees Retirement System Fees And Returns Summary

	Quarter To Date	Year To Date
Net ROR:		
Inclusive of UBS Investment Advisory Fees and Other Fees Paid	-2.94%	9.86%
Net ROR:		
Inclusive of Other Fees Paid Only	-2.94%	9.89%
Gross ROR:		
Excluding all Fees Paid	-2.91%	10.01%

The calculations above are effective as of 1/1/2021. This Fees and Returns Summary is included in UBS Institutional Consulting ("IC") quarterly performance reports starting with first quarter reporting in 2021 and it provides detailed fee information for your review. Data from prior to that time is not included in this new exhibit but is available upon request. If you hold your assets away from UBS, "Other Fees" include all fees your custodian provides to us, except your UBS Investment Advisory Fee, and will typically include investment manager fee and may include, custodian, administrative, trading and execution fees. We can only include fees in this analysis when provided by your custodian, which we have not verified, and are not responsible for the accuracy or completeness of this information. For additional information about what fees are included within "Other Fees" please contact your custodian. If you hold your assets at UBS, "Other Fees" include investment manager fees only, as custody, administrative, trading and execution fees are included in your UBS Investment Advisory Fee. If you have any questions about how fees are depicted throughout the remainder of this report, please discuss with your UBS Consultant.

	Onerter	YTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	Incontion	In cont D-4-	Current Assets
Gross Time Weighted Return	Quarter -2.91	10.01	17.37	4.43	6.04	7.67	7.25	Inception 7.98	Incept Date 06/30/1994	\$850,521,960
Universe Median	-2.91	10.01	17.37	4.43	0.04	7.07	1.25	1.90	00/30/1994	\$850,521,900
·	-2.92	6.46	13.54	3.98	5.16	6.58	6.34	7.38		
Policy Index %-tile	-2.92	0.40	15.54	5.98	5.10	0.38	0.54	1.38		
%o-tile (45% Russell 3000, 25% Bloomberg US Aggregate Bond	20% MSCLAC World	IXUSNet 10% HE	RX Global Hedge Fi	ind Index established	17/31/2013)					
			Tot Clobal Houge F		1110112010)					
Richmond Capital Management - (To	ntal Portfolio)									
Gross Time Weighted Return	-2.83	-0.41	1.64	-4.82	0.79	0.50	1.73	3.30	07/31/2007	\$89,409,719
Universe Median	-3.14	-1.07	0.56	-5.19	0.00	-0.14	1.02	2.64	3772112007	\$00,100,110
BB Gov/Cr Bond	-3.00	-0.85	0.93	-5.32	0.41	0.09	1.31	2.83		
%-tile	13	14	6	25	2	5	1.51	2.05		
(100.00% BB Gov/Cr Bond; established 7/31/2007)	15	11	0	23	2	5	1	•		
Blackrock Strategic Income Opps Fu Gross Time Weighted Return Universe Median Bloomberg US Agg %-tile (100.00% Bloomberg US Agg; established 5/31/2011)	<b>and - (Total Po</b> -0.32 -0.34 -3.23 48	rtfolio) 1.69 2.55 -1.21 63	3.36 4.58 0.64 66	0.34 0.15 -5.21 45	2.23 1.43 0.10 18	2.46 1.74 -0.09 15	2.53 1.89 1.13 21	2.68 2.14 1.47 19	05/31/2011	\$65,009,276
<b>Delaware Diversified Income Fund -</b> Gross Time Weighted Return Universe Median Bloomberg US Agg	-3.06 -3.03 -3.23	-0.53 -0.71 -1.21	2.35 1.14 0.64	-4.31 -4.81 -5.21	0.94 0.20 0.10	0.75 0.17 -0.09	1.73 1.29 1.13	1.93 1.76 1.47	05/31/2011	\$45,851,584
%-tile (100.00% Bloomberg US Agg; established 5/31/2011)	53	41	7	24	10	15	19	37		

	Quarter	YTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	Inception	Incept Date	Current Assets
Eagle Capital Large Value - (Total P	Portfolio)									
Gross Time Weighted Return	0.74	25.92	36.33	13.63	10.06	13.28	12.26	12.84	12/31/2002	\$102,901,475
Universe Median	-2.32	2.96	16.40	12.24	7.32	9.23	9.26	9.55		
Russell 1000 Value	-3.16	1.79	14.44	11.05	6.23	7.92	8.45	8.59		
%-tile	1	1	1	36	4	1	1	1		
(100.00% Russell 1000 Value; established 12/31/2002)										
Vanguard 500 Index - (Total Portfol	io)									
Gross Time Weighted Return	-3.27	13.05	21.59	10.13	9.86	12.19	11.87	7.08	05/31/1999	\$102,139,867
Universe Median	-3.28	11.35	20.34	9.32	8.73	11.07	10.54	6.76		
S&P 500 Index	-3.27	13.07	21.62	10.15	9.92	12.24	11.91	7.01		
%-tile	48	20	25	25	12	10	3	32		
(100.00% S&P 500 Index; established 5/31/1999)										
TCW Large Cap Growth - (Total Po	ortfolio)									
Gross Time Weighted Return	-3.42	24.42	28.02	3.57	10.29	13.76	12.49	13.03	04/30/2013	\$50,686,039
Universe Median	-3.21	19.35	25.25	7.27	10.55	14.12	13.29	13.81		
Russell 1000 Growth	-3.13	24.98	27.72	7.97	12.42	15.64	14.48	14.71		
%-tile (100.00% Russell 1000 Growth; established 4/30/2013)	58	30	26	79	57	62	75	71		
Westfield Conital Lange Cuewth (1	atal Dautfalia)									
Westfield Capital Large Growth - (T Gross Time Weighted Return	-2.41	24.20	27.71	6.97	11.46	15.11	13.53	10.38	07/31/2007	\$54,915,238
Universe Median	-2.41 -3.21	24.20 19.35	27.71	7.27	10.55	13.11	13.33	10.38	0//31/200/	ф <b>J</b> 4,91 <b>J</b> ,238
Russell 1000 Growth	-3.21	24.98	23.23	7.27	10.33	14.12	13.29	10.77		
%-tile	-5.15	24.98	27.72	7.97 54	33	23	42	68		
70-1110 (100.00% Russell 1000 Growth; established 7/31/2007)	24	33	29	54	22	23	42	08		

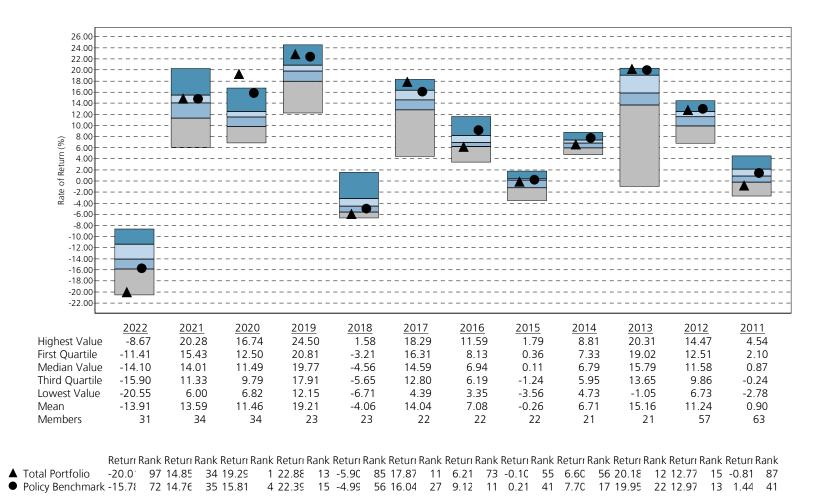
	Quarter	YTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	Inception	Incept Date	Current Assets
Vanguard Midcap Index Fund - (Tota	l Portfolio)									
Gross Time Weighted Return	-5.07	3.30	12.61	7.27	6.50	8.70	9.06	9.51	05/31/2004	\$57,986,752
Universe Median	-4.33	3.67	13.95	9.55	5.56	8.10	7.92	8.33		
Russell Midcap	-4.68	3.91	13.45	8.09	6.38	8.68	8.98	9.28		
%-tile (100.00% Russell Midcap; established 5/31/2004)	78	61	63	76	23	25	11	2		
Vaughan Nelson - (Total Portfolio)										
Gross Time Weighted Return	-4.19	11.67	20.92	19.97	9.22	9.88	10.06	13.52	04/30/2009	\$30,895,618
Universe Median	-2.16	4.05	15.52	16.08	5.24	7.96	7.78	12.13		
Russell 2000 Value	-2.96	-0.53	7.84	13.32	2.59	5.94	6.19	10.16		
%-tile (100.00% Russell 2000 Value; established 4/30/2009)	79	1	15	17	1	17	2	13		
Vanguard Total International Stock F	und - (Total ]	Portfolio)								
Gross Time Weighted Return	-4.01	5.04	20.50	3.89	2.76	4.82	3.63	2.95	11/30/2006	\$44,135,729
Universe Median	-4.77	5.69	23.45	4.31	2.80	4.76	3.62	2.87		
International Index	-3.77	5.34	20.39	3.74	2.58	4.73	3.35	2.49		
%-tile (100% MSCI AC World X US Net, established 7/01/2013)	23	61	76	55	51	46	49	45		
Natixis Loomis Sayles Global Equity -	(Total Portfo	olio)								
Gross Time Weighted Return	-2.98	9.23	19.16	1.36	5.07	7.00		6.81	11/30/2015	\$26,941,780
Universe Median	-3.59	2.35	11.21	3.16	2.93	4.00		4.25		,
HFRX Global Hedge	0.75	1.39	1.55	1.83	1.94	2.21		1.97		
%-tile	33	1	1	73	5	1		1		
(100.00% HERX Global Hedge: established 11/30/2015)	00	-	-	10	C C	-		-		

(100.00% HFRX Global Hedge; established 11/30/2015)

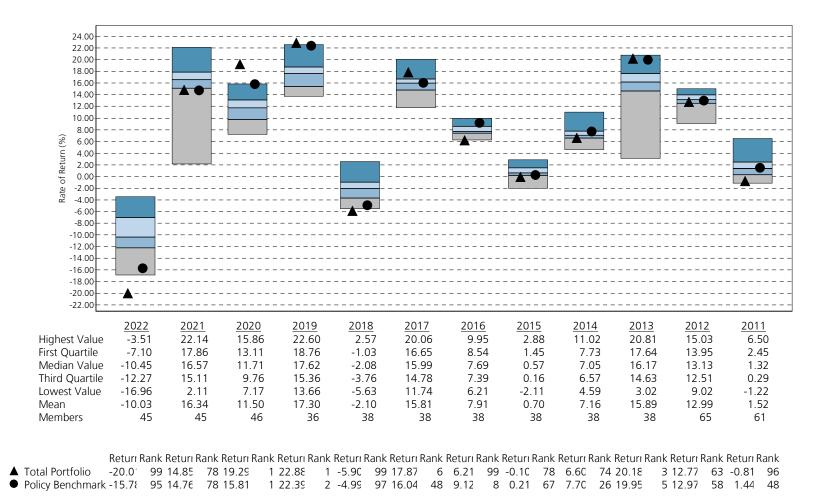
	Quarter	YTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	Inception	Incept Date	Current Assets
First Eagle Global Fund - (Total Por	tfolio)									
Gross Time Weighted Return	-3.72	5.32	19.42	7.31	5.94	6.16	6.16	7.15	03/31/2010	\$29,193,191
Universe Median	-3.59	2.35	11.21	3.16	2.93	4.00	3.92	5.03		
HFRX Global Hedge	0.75	1.39	1.55	1.83	1.94	2.21	1.48	1.23		
%-tile (100.00% HFRX Global Hedge; established 3/31/2010)	57	15	1	5	1	3	1	1		
Blackrock Global Allocation Fund -	(Total Portfolio	)								
Gross Time Weighted Return	-4.15	2.60	8.96	1.09	4.04	4.77	4.38	5.01	03/31/2010	\$22,534,609
Universe Median	-3.59	2.35	11.21	3.16	2.93	4.00	3.92	5.03		
HFRX Global Hedge	0.75	1.39	1.55	1.83	1.94	2.21	1.48	1.23		
%-tile (100.00% HFRX Global Hedge; established 3/31/2010)	82	46	76	78	22	21	31	51		
Vanguard International Growth - (T Gross Time Weighted Return Universe Median MSCI AC Wld x US Grw %-tile (100.00% MSCI AC Wld x US Grw; established 2/06/2019)	-9.17 -7.84 -7.26 73	3.09 4.05 2.90 65	16.10 18.44 16.22 75	-4.69 -0.92 -1.56 83				6.16 4.14 3.80 11	02/06/2019	\$46,665,803
Tweedy Browne Global Value - (Tot	· · · · · ·									
Gross Time Weighted Return	-1.70	6.40	17.11	9.19				3.20	04/10/2019	\$41,788,325
Universe Median	-2.34	8.33	28.12	8.43				3.86		
MSCI AC Wld x US Val	0.07	8.87	26.09	10.30				3.57		
%-tile (100.00% MSCI AC WId x US Val; established 4/10/2019)	32	80	99	41				68		

	Quarter	YTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	Inception	Incept Date	Current Assets
Fuller & Thaler Small Cap Growth	- (Total Portfolio	)								
Gross Time Weighted Return	-2.31							5.07	05/16/2023	\$24,917,151
Universe Median	-6.56							1.16		
Russell 2000 Growth	-7.32							0.37		
%-tile	1							7		
(100.00% Russell 2000 Growth; established 5/16/2023)										
Delaware Diversified Income I - (To	otal Portfolio)									
Gross Time Weighted Return	-2.96							-2.99	05/08/2023	\$14,549,805
Universe Median	-3.03							-3.21		
BB Universal	-2.88							-3.03		
%-tile	40							33		
(100.00% BB Universal; established 5/08/2023)										

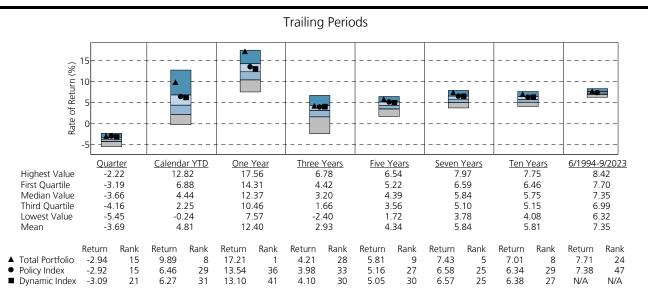
Consolidated Portfolio vs Master Trusts - Public : Plans < \$1 Billion Managers December 31, 2003 Through December 31, 2022



Consolidated Portfolio vs Master Trusts - Public : Plans > \$1 Billion Managers December 31, 2003 Through December 31, 2022



#### Consolidated Portfolio Peer Universe Comparison versus 50% Equity, 35% Fixed, 15% International Managers



#### 30 Rate of Return (%) **≜o**∎ 20 4<sub>0</sub>H **...** <u> 102</u> -10 ,•= -20 -30 2022 2020 2019 2018 2017 2016 2015 2014 2013 2012 2021 32.32 **Highest Value** -7.97 16.16 25.07 -1.25 21.65 13.30 4.29 8.51 23.06 15.49 First Quartile -12.53 13.94 20.31 22.32 -3.99 17.09 8.42 7.03 19.71 13.68 1.16 -15.71 -5.34 Median Value 12.51 14.23 20.79 6.60 5.94 12.66 15.08 -0.22 18.33 Third Ouartile -20.07 10.23 9.99 19.43 -6.96 13.32 4.47 -1.47 4.71 17.13 11.53 Lowest Value -26.29 3.01 5.02 17.12 -10.30 9.82 0.77 -3.67 1.60 15.09 9.83 Mean -16.19 11.75 15.25 20.86 -5.51 15.31 6.49 -0.10 5.75 18.47 12.62 Return Rank ▲ Total Portfolio -20.01 74 14.85 10 19.29 28 22.88 16 -5.90 59 17.87 18 6.21 55 -0.10 48 6.60 34 20.18 17 12.77 46 Policy Index -15.28 45 12.67 47 14.69 46 21.18 41 -5.73 56 16.12 35 7.64 34 -0.96 62 6.22 43 18.13 53 11.67 72 Dvnamic Index - 16.34 57 14.02 23 14.97 44 21.21 41 -5.71 56 15.61 41 8.21 27 -1.32 71 6.88 27 18.47 46 11.61 73

Annual Periods

# Performance Profile June 30, 1994 Through September 30, 2023

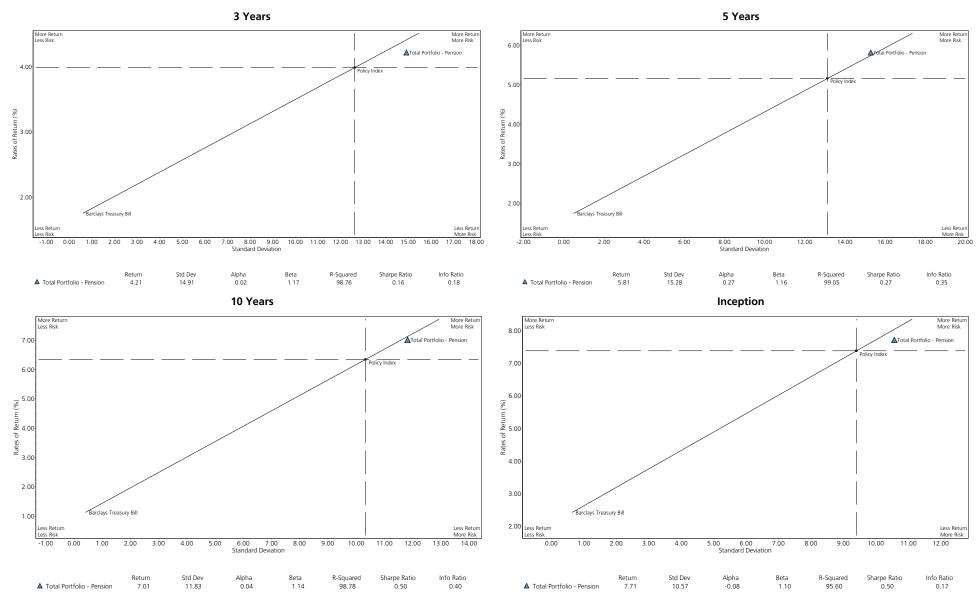
	Ended	Return
Best Quarter	6/2020	17.41
Worst Quarter	3/2020	-15.15
Best 4 Quarters	9/1997	30.39
Worst 4 Quarters	9/2022	-21.79

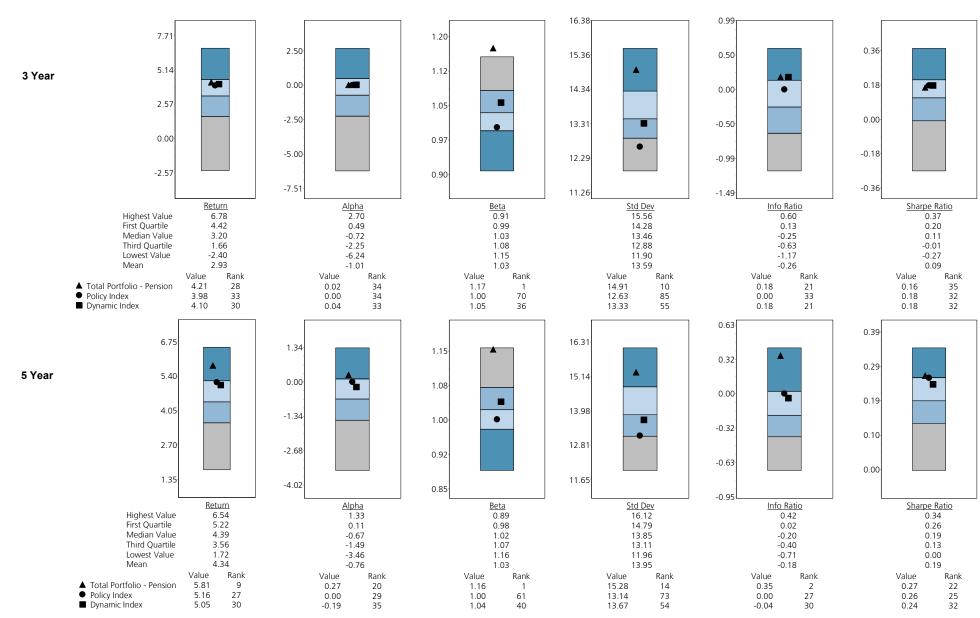
			Year						
	Latest	Latest	То	One	Two	Three	Five	Ten	Since
	Month	Quarter	Date	Year	Years	Years	Years	Years	Inception
Consolidated Portfolio	-3.77	-2.94	9.89	17.21	-4.26	4.21	5.81	7.01	7.71
Policy Index	-3.42	-2.92	6.46	13.54	-2.90	3.98	5.16	6.34	7.38
Excess	-0.34	-0.01	3.43	3.67	-1.36	0.23	0.65	0.67	0.34
Riskless Index	0.44	1.33	3.72	4.65	2.61	1.76	1.76	1.14	2.44
Real ROR	-3.97	-3.72	6.05	13.15	-9.69	-1.44	1.72	4.16	5.06
CPI	0.20	0.80	3.66	3.66	5.89	5.67	3.98	2.72	2.51

351 225 126

		Std	Sharpe				Relative	Track	Treynor	Info
Period	Return	Dev	Ratio	Alpha	Beta	R-Squared	Risk	Error	Ratio	Ratio
One Year	17.21	13.12	0.96	1.93	1.17	98.54	1.18	2.51	10.71	1.39
Two Years	-4.26	15.76	-0.44	-0.19	1.18	98.82	1.19	2.95	-5.81	-0.36
Three Years	4.21	14.71	0.17	0.02	1.17	98.76	1.18	2.70	2.10	0.18
Five Years	5.81	15.15	0.27	0.27	1.16	99.05	1.16	2.53	3.50	0.35
Ten Years	7.01	11.78	0.50	0.04	1.14	98.78	1.14	1.92	5.17	0.41
Since Inception	7.71	10.56	0.50	-0.08	1.10	95.60	1.12	2.41	4.80	0.17

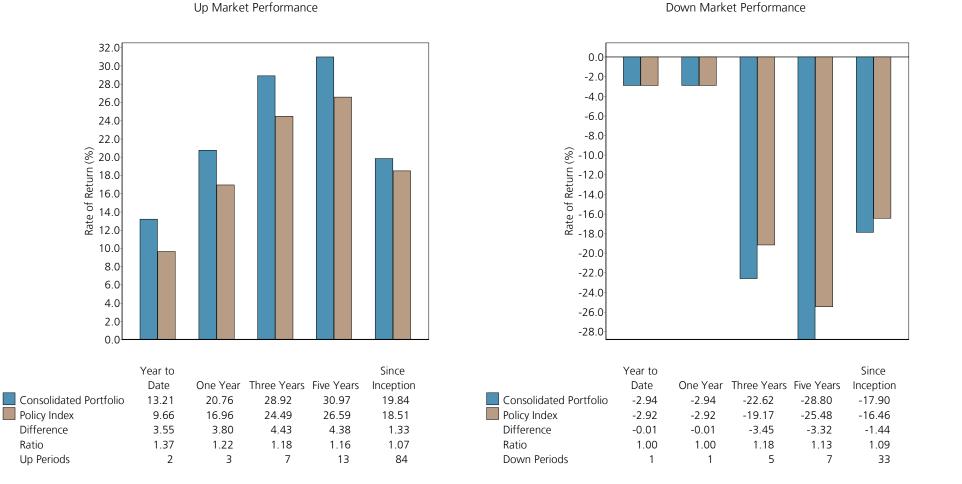
# Risk vs Reward Analysis June 30, 1994 Through September 30, 2023





# Consolidated Portfolio vs 50% Equity, 35% Fixed, 15% International Managers September 30, 2020 Through September 30, 2023

# Performance in Rising and Declining Markets June 30, 1994 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **Richmond Capital Management**

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

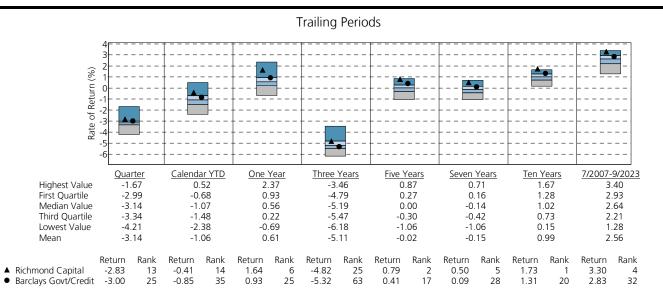
# TOTAL FUND BENCHMARK

7/31/2007 - Present 100% Bloomberg Barclays Government/Credit Bond

#### **TOTAL FUND Peer Universe Comparison versus Intermediate Core Bond Managers**

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Annual Periods

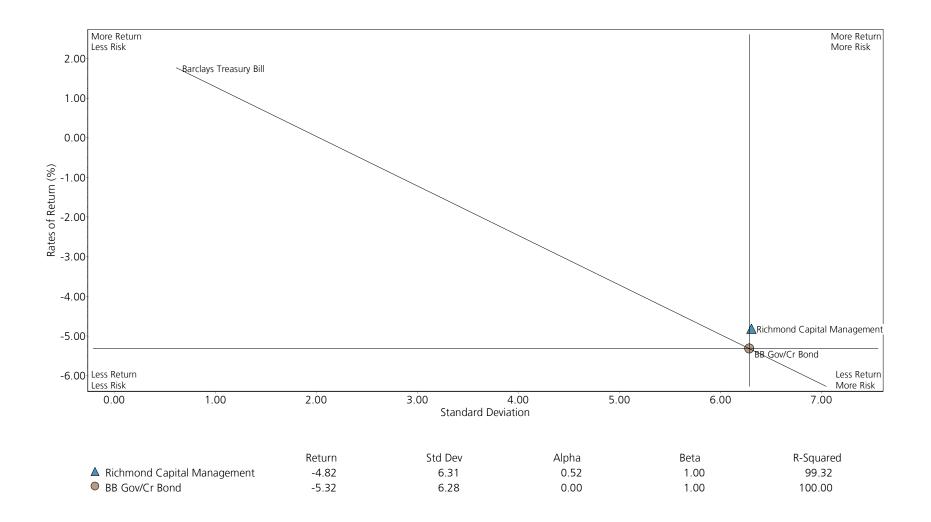
0, with the second s			· · · · · · · · · · · · · · · · · · ·									
	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>
Highest Value	-9.18	-0.15	10.77	9.84	0.92	5.21	5.00	1.52	7.54	0.41	10.18	8.30
First Quartile	-12.87	-1.13	8.67	8.94	0.08	3.91	3.02	0.57	6.12	-1.29	6.60	7.38
Median Value	-13.39	-1.54	7.77	8.42	-0.35	3.40	2.59	0.26	5.69	-2.00	5.84	6.79
Third Quartile	-13.98	-1.93	7.05	7.79	-0.73	2.99	2.16	-0.20	4.97	-2.44	4.81	5.85
Lowest Value	-15.65	-2.60	4.31	5.45	-1.76	1.83	1.20	-1.54	2.27	-3.53	3.26	4.52
Mean	-13.29	-1.51	7.75	8.27	-0.34	3.44	2.68	0.18	5.50	-1.89	5.86	6.61

	Returi R	Rank Returi	Rank	Returi F	Rank	Returi R	ank Returi F	Rank I	ReturiR	lank	Returi F	Rank	ReturiR	lank I	Returi R	lank Returi R	ank I	Returi R	Rank F	Returi R	ank
Richmond Capital	-12.82	22 -1.40	41	9.20	14	9.58	7 -0.01	28	4.15	14	3.26	18	1.19	7	6.60	10 -1.82	39	5.77	49	9.29	1
Barclavs Govt/Credi	it -13.5	58 -1.75	62	8.93	19	9.71	4 -0.42	55	4.0C	20	3.05	23	0.15	56	6.01	26 -2.35	68	4.82	72	8.74	1

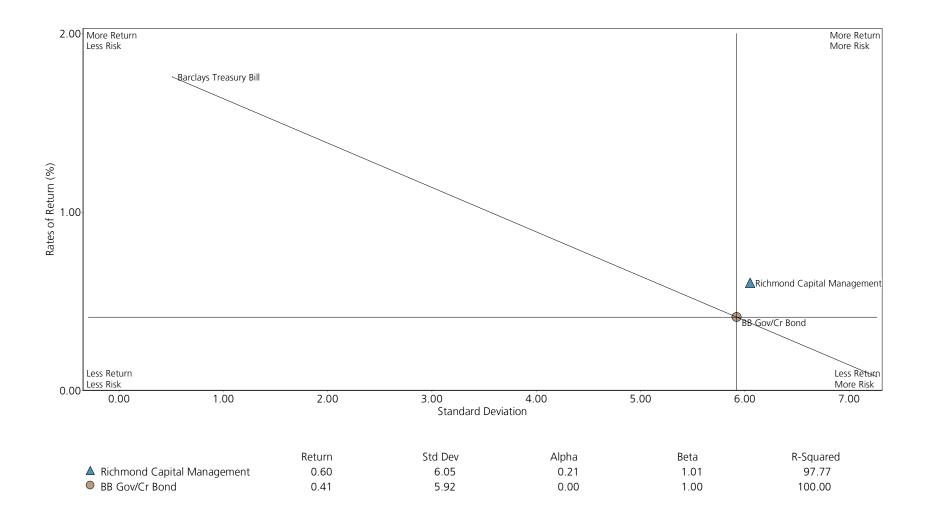
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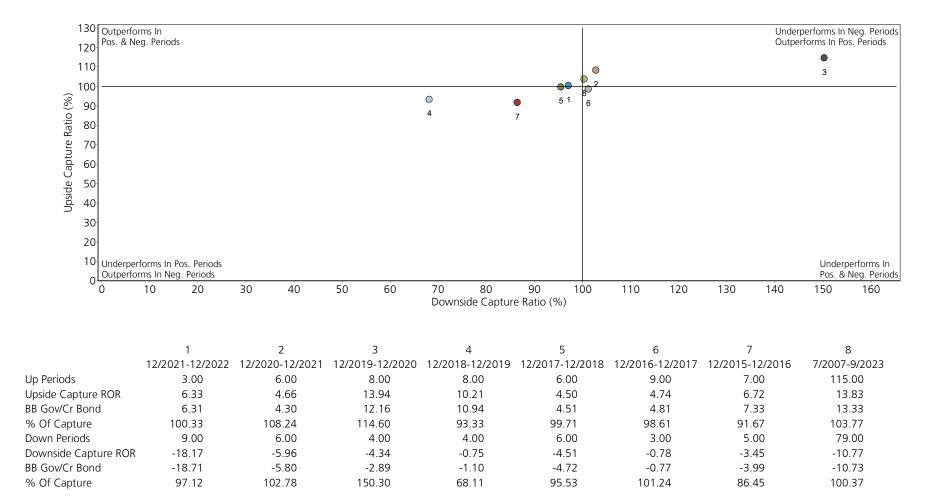
# Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



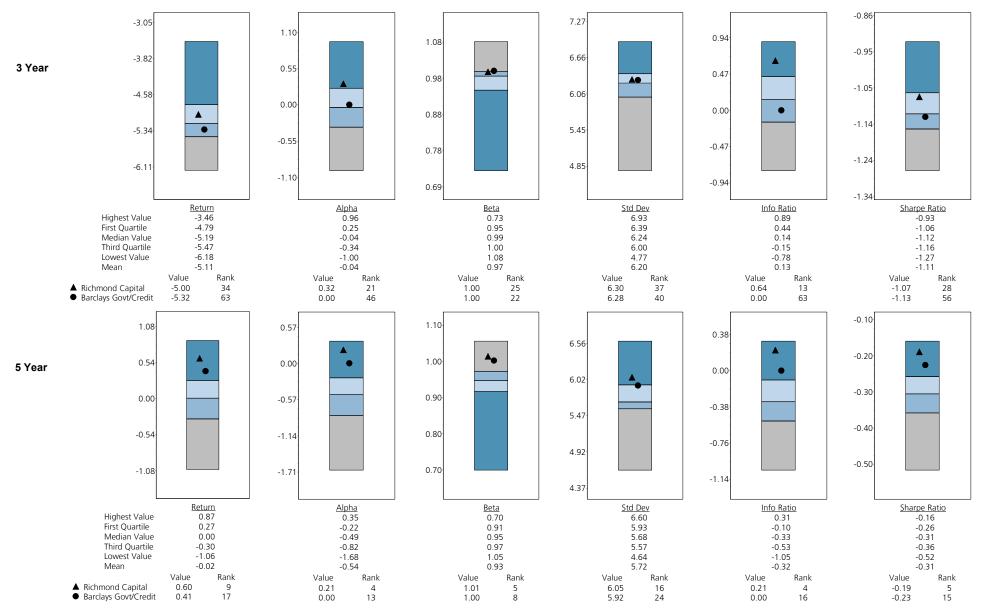
# Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



# Capture Ratio July 31, 2007 Through September 30, 2023



# TOTAL FUND vs Intermediate Core Bond Managers September 30, 2020 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **Blackrock Strategic Income Opps Fund**

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

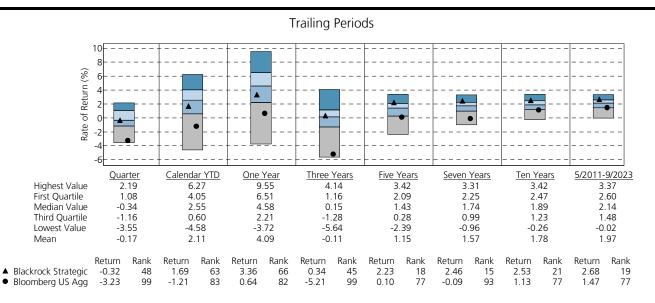
## **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

### TOTAL FUND BENCHMARK

5/31/2011 - Present 100% Bloomberg US Aggregate Bond

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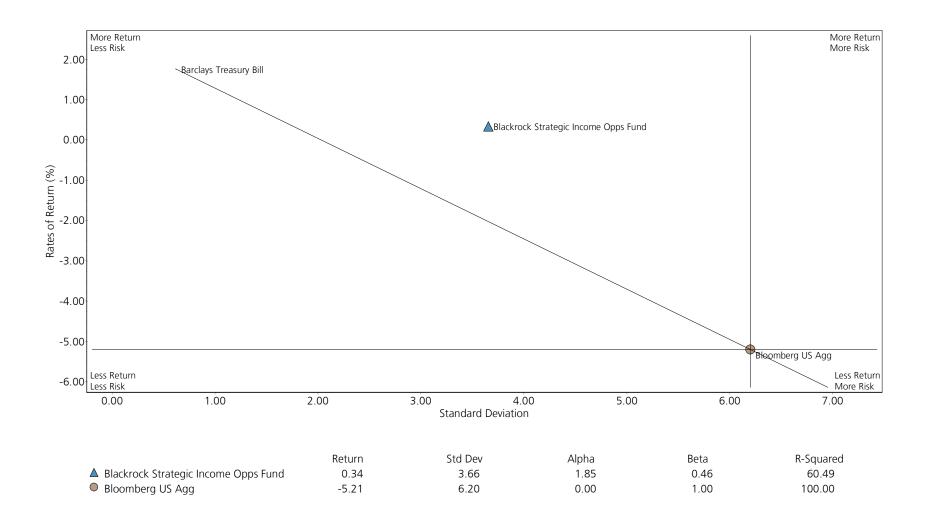


#### 20 Rate of Return (%) \* . 4. ... -5 -10 -15 2022 2021 2020 2019 2018 2017 2016 <u>2015</u> <u>2014</u> 2013 2012 **Highest Value** 0.10 6.21 11.06 14.49 3.89 9.36 13.34 2.63 8.99 7.09 19.31 First Quartile 8.38 0.67 0.35 3.98 -3.25 2.49 7.01 5.88 6.57 3.81 12.72 Median Value -6.42 1.15 4.92 6.55 -0.84 4.33 5.05 -0.86 2.38 2.84 10.33 Third Quartile -8.95 -0.58 2.58 5.04 -2.64 2.93 4.20 -2.31 0.92 0.34 7.56 Lowest Value -14.72 -4.33 -6.25 1.56 -5.66 0.99 1.94 -5.34 -2.91 -2.60 3.03 Mean -6.45 1.09 4.53 6.86 -0.96 4.42 5.55 -0.93 2.51 2.32 10.46

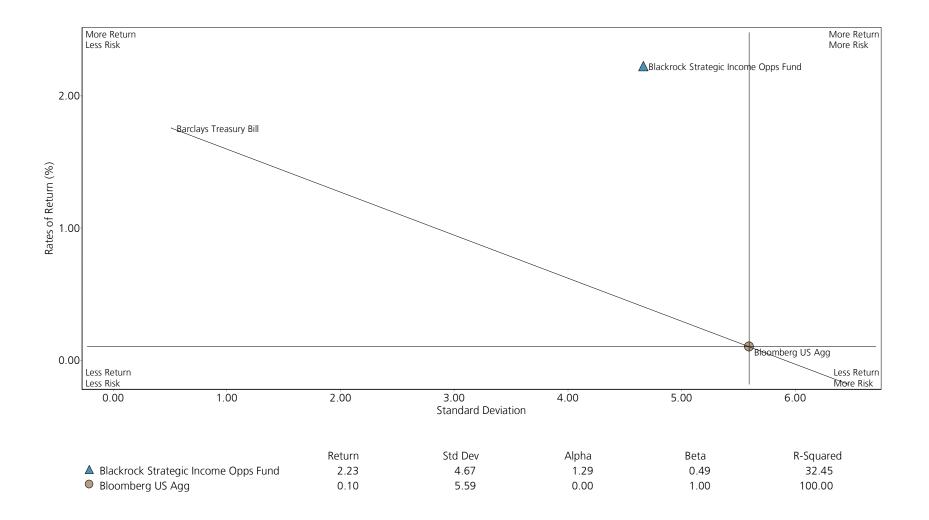
Annual Periods

	Return F	Rank	Return	Rank	Return	Rank	Returr	Rank	Return	Rank	Returr	Rank	Return	Rank	Returr	Rank	Return	Rank	Return	Rank	Return F	Rank
Blackrock Strategic	-5.59	43	1.05	53	7.29	23	7.82	33	-0.49	43	4.94	42	3.61	85	-0.30	36	4.07	22	3.09	41	9.83	50
<ul> <li>Bloomberg US Agg</li> </ul>	-13.01	94	-1.54	87	7.51	20	8.72	20	0.01	37	3.54	62	2.65	95	0.55	20	5.97	7	-2.02	96	4.21	96

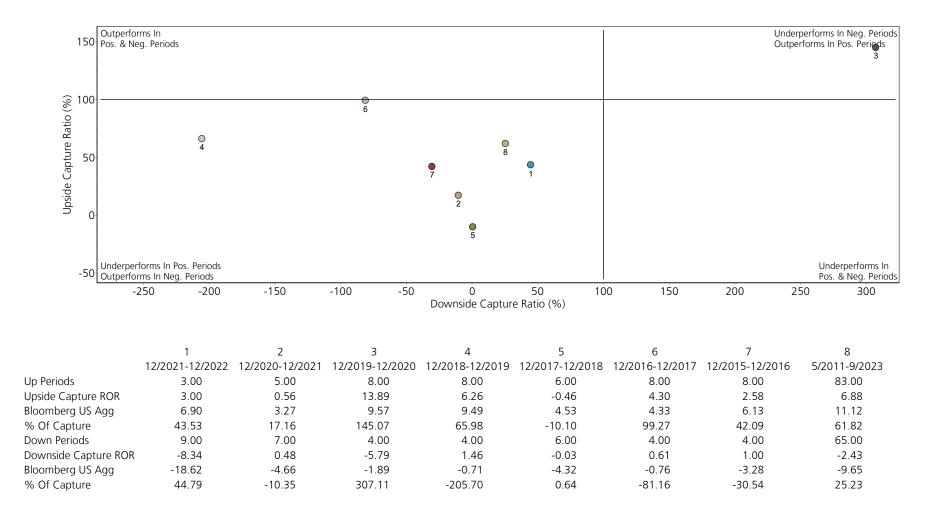
#### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



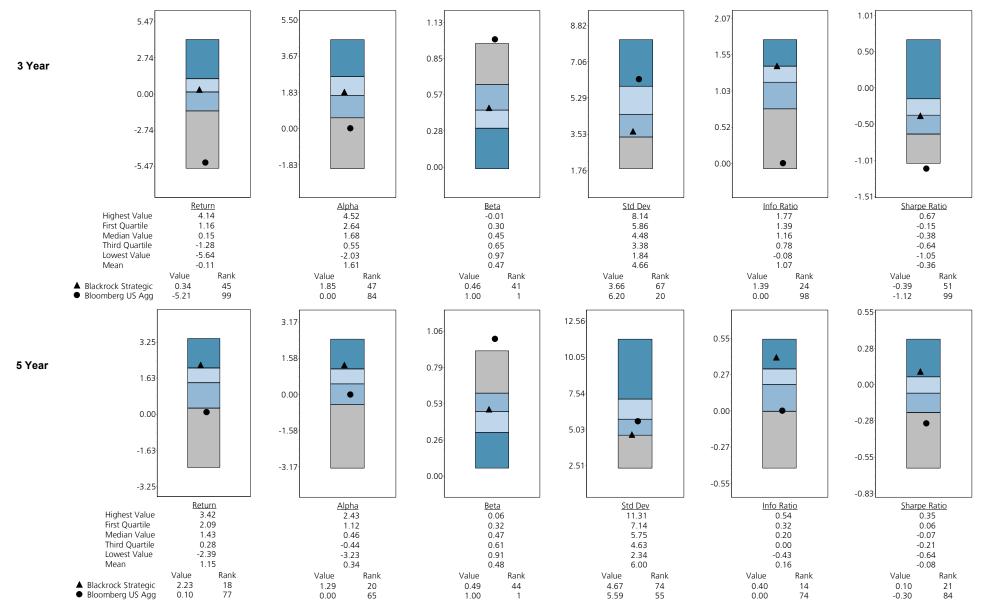
#### Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



### Capture Ratio May 31, 2011 Through September 30, 2023



#### TOTAL FUND vs Nontraditional Bond Managers September 30, 2020 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

## **Delaware Diversified Income Fund**

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

## **Performance Analysis**

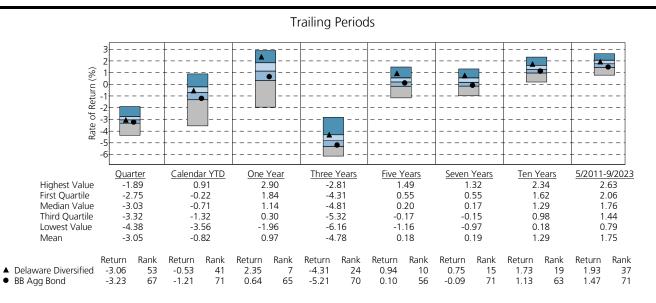
The primary index comparison for your portfolio and each of its asset classes is listed below.

### TOTAL FUND BENCHMARK

5/31/2011 - Present 100% Bloomberg US Aggregate Bond

#### **TOTAL FUND Peer Universe Comparison versus Intermediate Core Plus Bond Managers**

BB Agg Bond



#### Rate of Return (%) • .... **. A**. 40 -.... -15 2022 2021 2020 2019 2018 2017 2016 2015 2014 2013 2012 Highest Value -11.08 16.01 11.50 1.68 6.39 6.30 1.41 7.82 1.88 12.04 1.16 First Quartile 9.94 -0.32 4.93 4.57 -13.07 -0.18 9.24 0.25 6.18 -0.18 9.28 Median Value -13.90 -0.82 8.46 9.27 -0.81 4.25 3.79 -0.19 5.66 -1.07 7.99 Third Quartile -14.68 -1.26 7.45 8.47 -1.37 3.62 2.98 -0.87 4.74 -1.64 7.05 Lowest Value -16.70 -2.47 4.64 6.30 -2.46 2.67 1.53 -2.51 3.30 -3.06 4.70 -0.77 Mean -13.90 -0.74 8.46 9.19 4.33 3.84 -0.31 5.53 -0.90 8.16 Returr Rank Returr Rank Return Rank Returr Rank ▲ Delaware Diversified -13.54 38 -1.00 61 10.82 8 10.93 7 -1.84 89 5.22 15 3.42 64 -0.60 65 5.47 55 -1.15 53 6.68 82

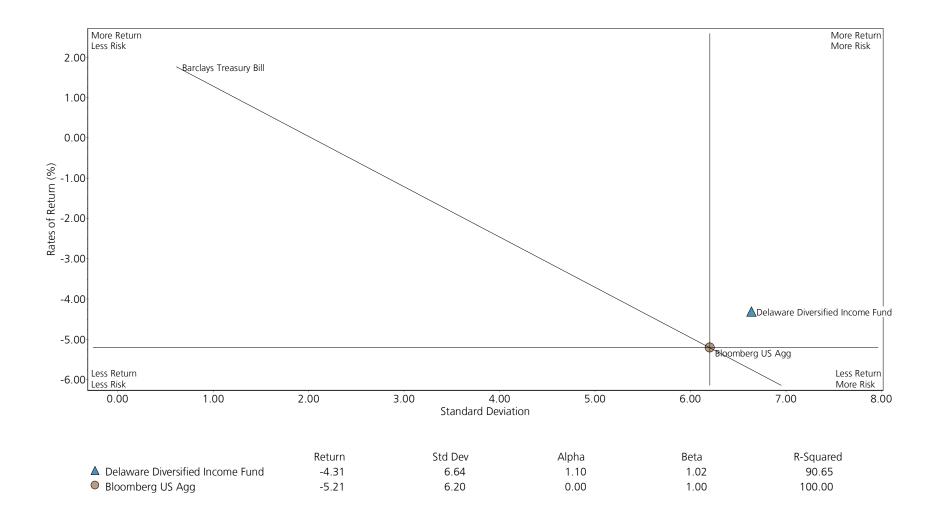
-13.01 22 -1.54 84 7.51 73 8.72 69 0.01 16 3.54 77 2.65 82 0.55 13 5.97 31 -2.02 86 4.21

Annual Periods

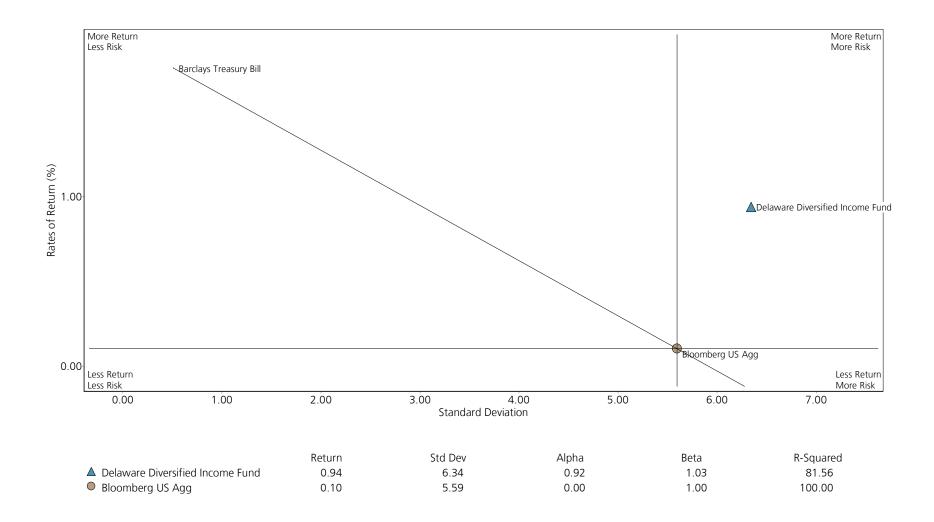
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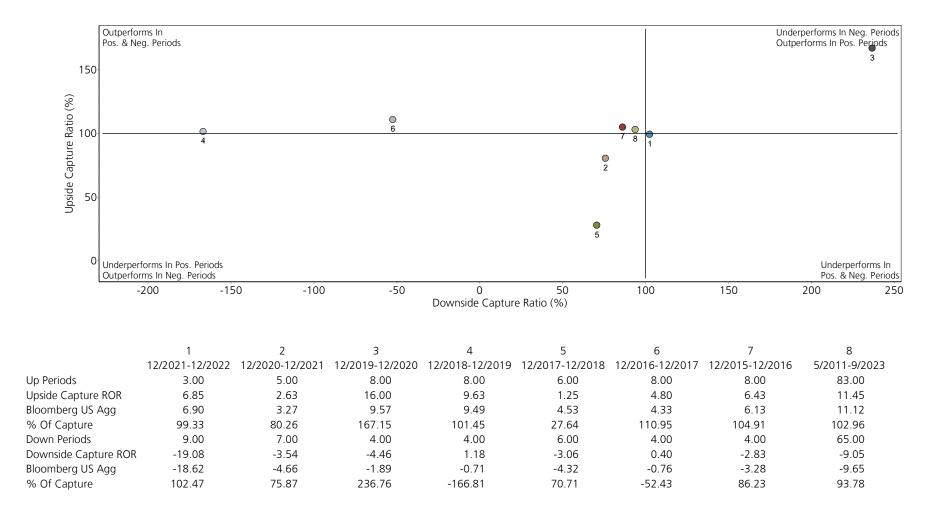
#### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



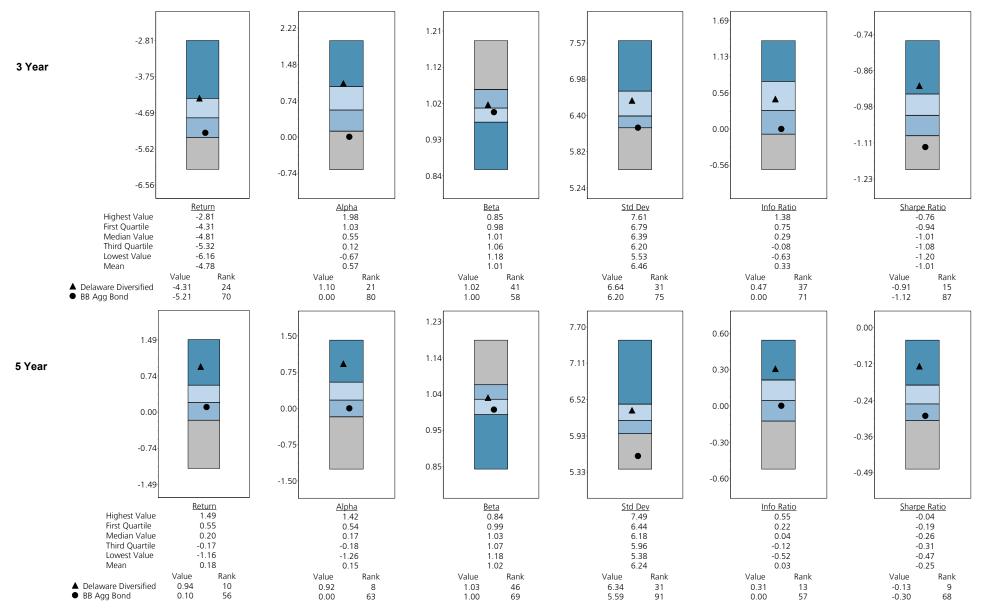
#### Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



### Capture Ratio May 31, 2011 Through September 30, 2023



#### TOTAL FUND vs Intermediate Core Plus Bond Managers September 30, 2020 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Eagle Capital Large Value

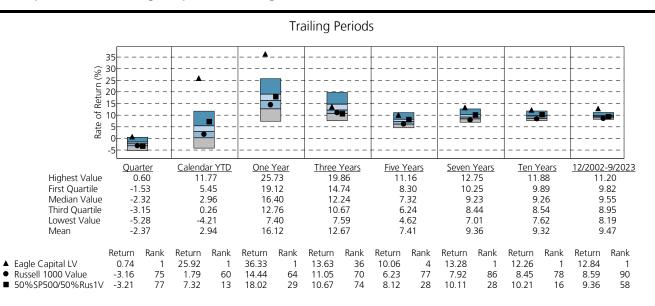
Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

## **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

#### TOTAL FUND BENCHMARK

12/31/2002 - Present 100% Russell 1000 Value

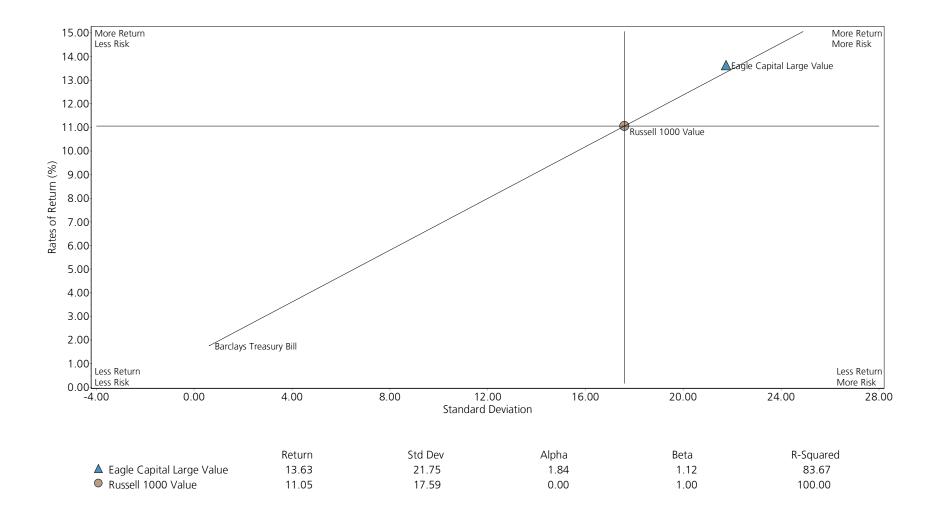


50 40 Return (%) Ì0 **A**... 30 1. . 20 102 Top Rate of I **≜**g∎ . -20 ۸ -30 2022 2021 2020 2019 2018 2017 2016 2015 2014 2013 2012 2011 **Highest Value** 2.44 34.54 19.85 34.51 -1.04 24.72 24.49 3.28 16.58 45.00 22.19 11.09 First Quartile -2.62 29.72 9.31 29.51 -5.53 19.88 17.30 -0.02 13.94 37.35 18.00 5.45 1.70 Median Value -5.49 27.57 4.59 17.76 15.12 -2.09 12.51 33.41 26.85 -8.19 15.41 Third Ouartile -8.43 25.09 2.09 24.79 -10.63 15.77 12.40 -4.28 10.79 30.81 13.00 -0.84 Lowest Value -17.92 19.96 -3.70 20.49 -15.15 12.43 8.58 -9.85 7.39 24.13 8.22 -6.74 Mean -5.94 27.41 5.99 27.14 -8.13 17.95 15.24 -2.37 12.36 34.09 15.47 2.13 Retur Rank ▲ Eagle Capital LV -24.9 99 29.24 31 15.98 5 31.89 9 -4.13 14 24.80 1 10.95 89 2.93 1 13.05 43 36.88 27 17.36 33 5.62 24

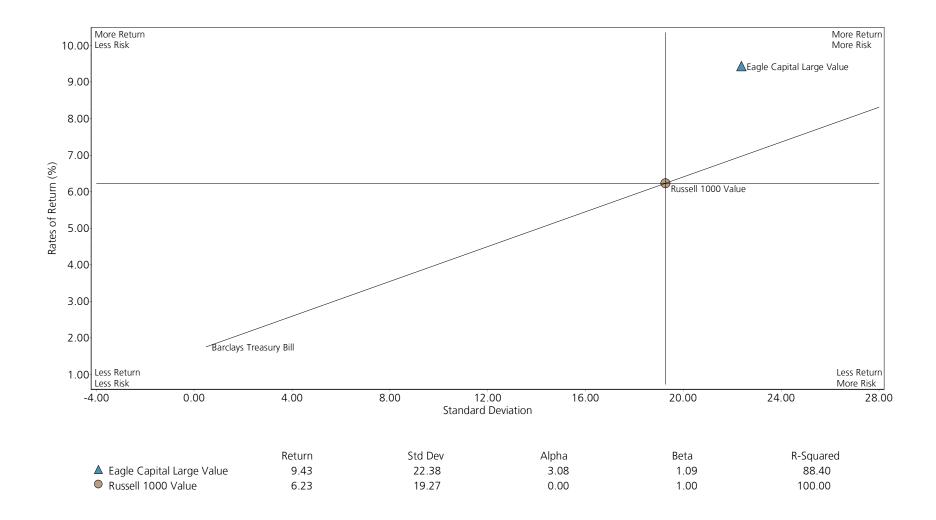
Russell 1000 Value -7.54 68 25.16 73 2.8C 67 26.54 54 -8.27 54 13.66 95 17.34 23 -3.83 69 13.45 35 32.53 60 17.51 30 0.35 63
 50%SP500/50%Rus1V-12.9 91 27.0C 55 10.46 21 29.01 29 -6.32 29 17.65 51 14.65 56 -1.25 37 13.58 31 32.46 60 16.76 39 1.26 53
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Annual Periods

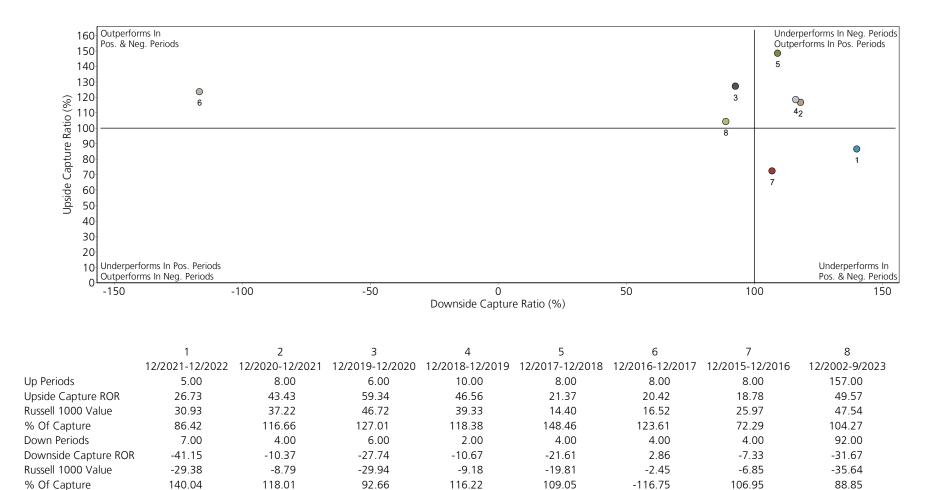
#### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



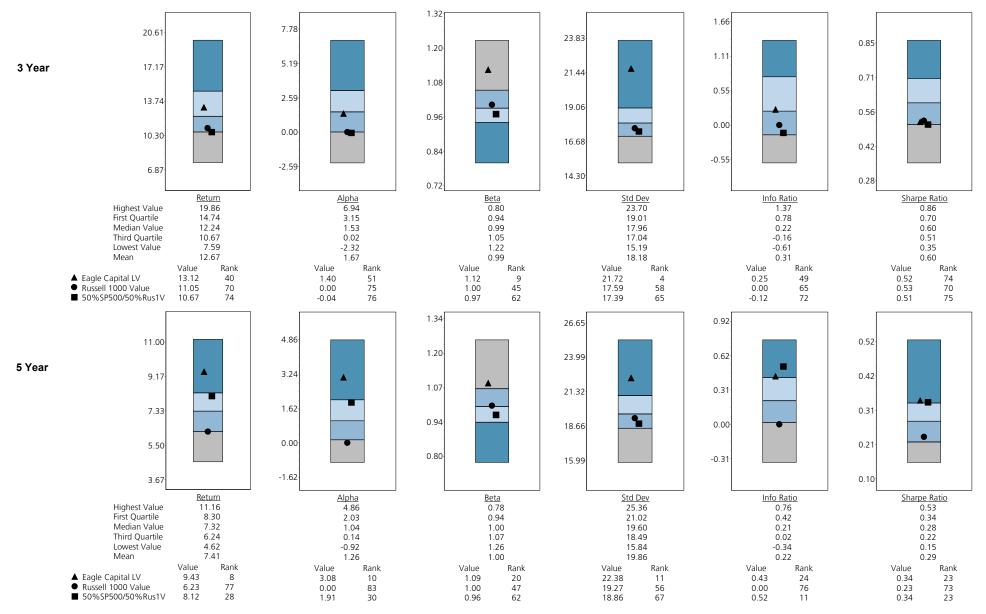
#### Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



#### Capture Ratio December 31, 2002 Through September 30, 2023



### TOTAL FUND vs Large Cap Value Managers September 30, 2020 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

## Vanguard 500 Index

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

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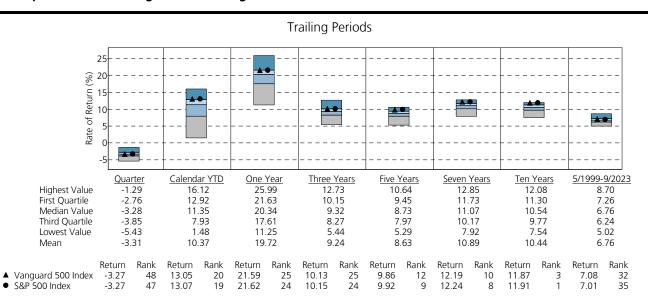
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## **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

#### TOTAL FUND BENCHMARK

5/31/1999 - Present 100% S&P 500 Index

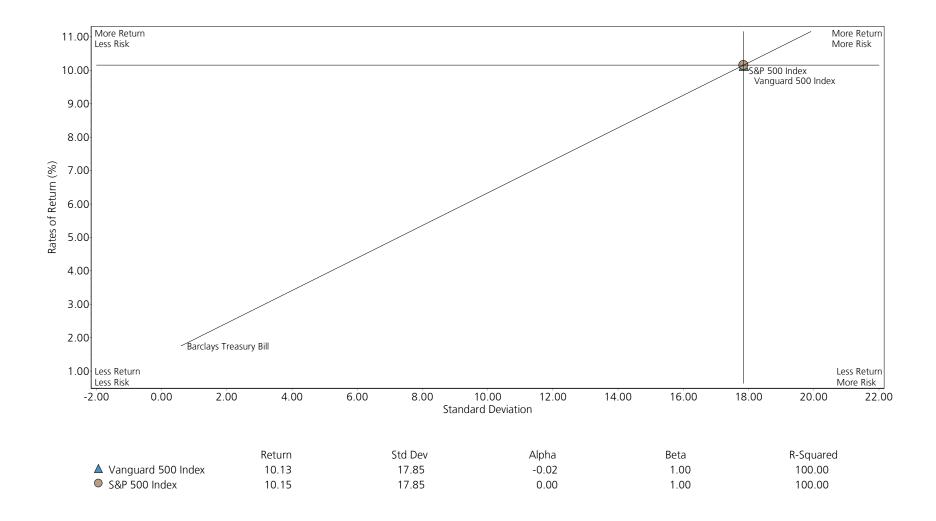


#### 40 10 ..... 30 Rate of Return (%) **A** • 1.0 20 .... A-0-**A** 1. -1-0 **.** ..... -20 2022 2021 2020 2019 2018 2017 2016 2015 2014 2013 2012 2011 Highest Value -8.23 31.42 24.69 34.13 -1.44 26.25 15.60 5.00 15.13 39.43 20.75 6.18 First Quartile -15.26 19.47 -4.52 22.23 1.38 28.37 31.33 11.95 13.22 34.15 16.98 1.82 Median Value -18.13 26.68 17.36 30.07 -5.51 21.16 10.61 0.35 12.01 32.19 15.75 0.25 Third Quartile -19.33 24.78 13.79 27.87 -7.23 19.73 8.73 -1.67 10.33 31.05 14.29 -1.56 Lowest Value -22.83 19.39 7.66 23.57 -13.50 15.35 3.74 -5.64 6.29 26.96 10.79 -7.47 Mean -17.01 26.44 16.58 29.58 -5.89 20.98 10.33 -0.02 11.65 32.62 15.66 0.14

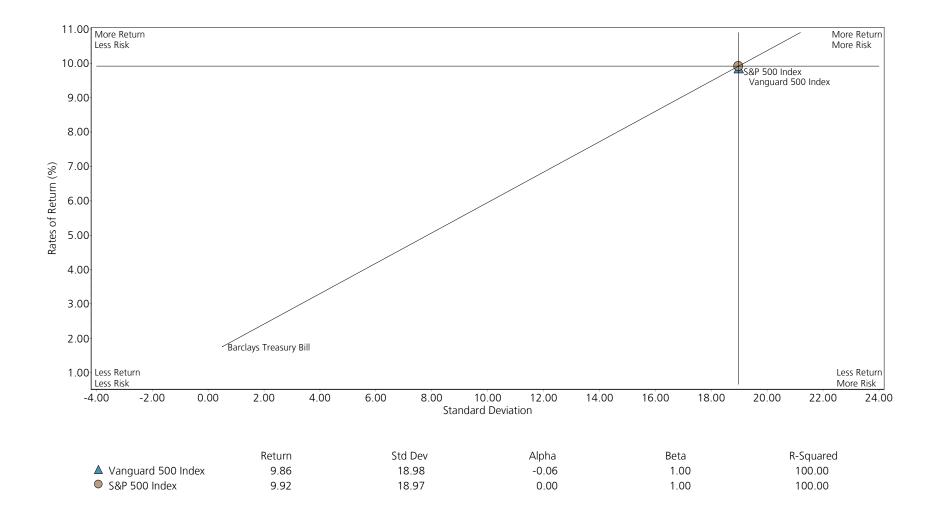
	Returi	Rank Returi R	lank Retur F	lank Returi R	lank Returi F	Rank Returi F	Rank Returi F	Rank R	eturi R	ank Returi R	ank Returi F	Rank Retur R	lank I	ReturiR	.ank
Vanguard 500 Index	: -18.1.	50 28.68	18 18.4C	33 31.43	22 -4.51	24 21.76	31 11.93	25	1.35	25 13.64	13 32.37	45 15.98	41	2.09	16
S&P 500 Index	-18.1	49 28.71	17 18.4C	33 31.49	20 -4.38	21 21.83	30 11.96	24	1.38	24 13.69	13 32.39	44 16.0C	40	2.11	16

Annual Periods

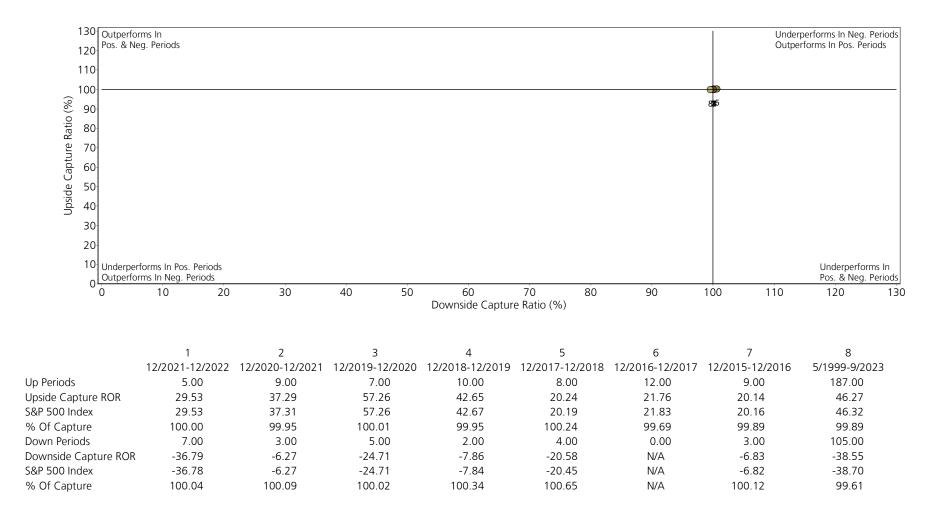
#### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



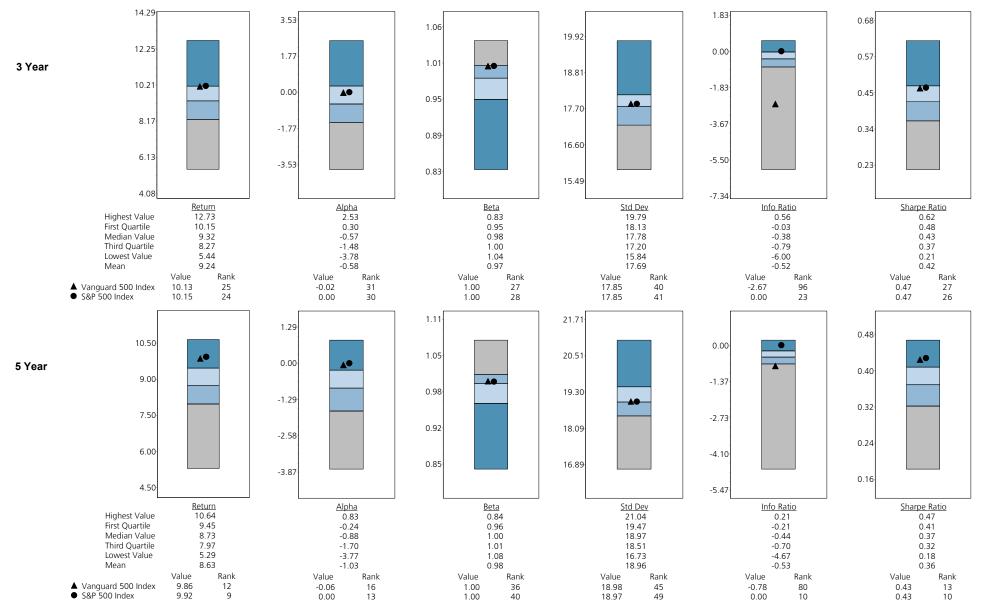
#### Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



#### Capture Ratio May 31, 1999 Through September 30, 2023



### TOTAL FUND vs Large Blend Managers September 30, 2020 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **TCW Large Cap Growth**

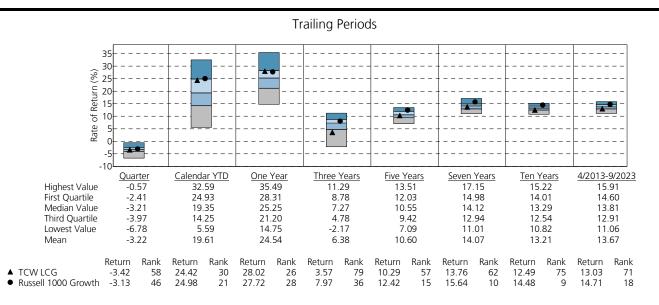
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## **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

#### TOTAL FUND BENCHMARK

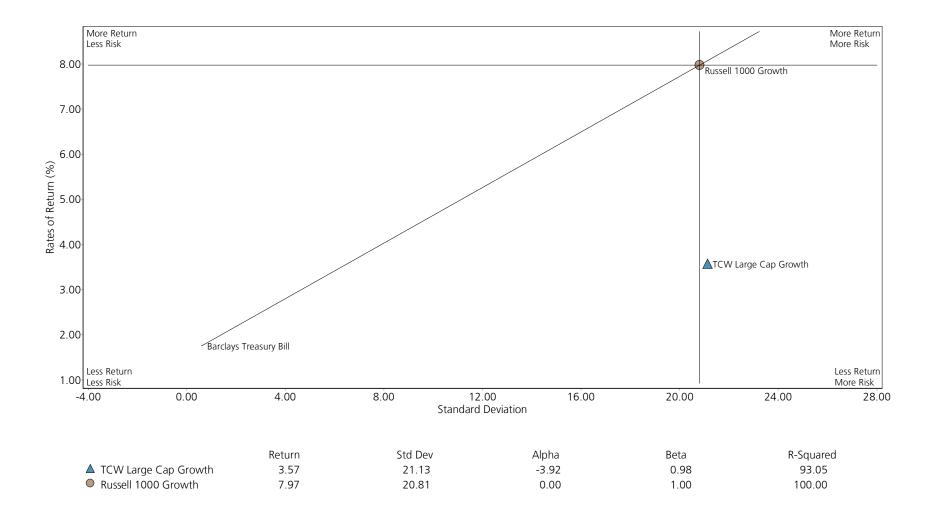
4/30/2013 - Present 100% Russell 1000 Growth



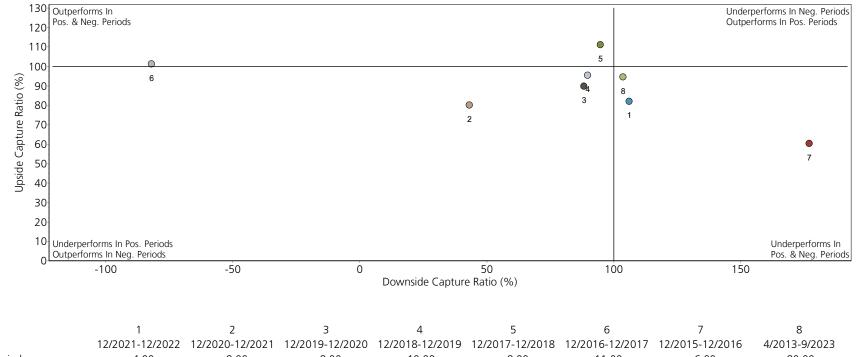
80 60 of Return (%) 40 ... 10 4. .... 20 .... • **A**. Rate ( -20 -10 2022 2021 2020 2019 2018 2017 2016 2015 2014 72.14 41.09 7.51 12.24 17.99 **Highest Value** -11.00 33.05 37.38 13.32 First Ouartile -20.71 28.51 40.48 36.61 1.37 32.43 7.26 8.13 14.39 Median Value -28.23 24.95 34.65 33.81 -0.87 28.82 4.91 4.89 12.67 Third Quartile -31.72 20.52 27.30 31.60 -3.39 26.47 2.86 2.67 10.16 Lowest Value -40.07 5.91 14.72 24.09 -8.91 19.95 -2.68 -3.27 6.31 Mean -26.82 23.96 35.26 34.01 -0.88 29.15 4.98 5.17 12.39 Return Rank ▲ TCW LCG -34.90 84 26.83 39 37.50 39 36.77 24 2.53 15 31.82 30 -6.86 99 12.95 1 8.22 92 • Russell 1000 Growth -29.14 58 27.60 31 38.49 33 36.39 26 -1.51 57 30.21 39 7.08 27 5.67 43 13.05 43

Annual Periods

#### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023

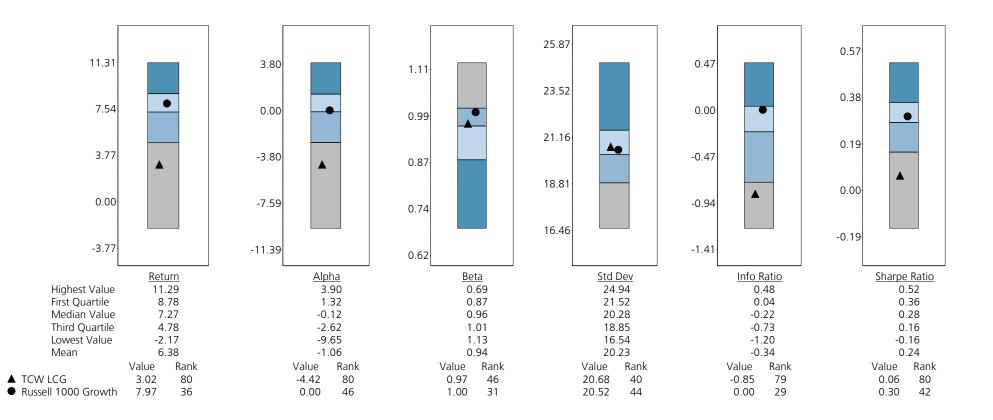


#### Capture Ratio April 30, 2013 Through September 30, 2023



	12/2021-12/2022	12/2020-12/2021	12/2019-12/2020	12/2010-12/2019	12/2017-12/2018	12/2010-12/2017	12/2015-12/2010	4/2013-9/2023	
Up Periods	4.00	8.00	8.00	10.00	8.00	11.00	6.00	80.00	
Upside Capture ROR	23.62	30.52	70.98	44.60	27.71	30.94	11.04	56.33	
Russell 1000 Growth	28.80	38.12	79.05	46.71	24.95	30.56	18.31	59.60	
% Of Capture	82.01	80.08	89.80	95.49	111.07	101.25	60.33	94.52	
Down Periods	8.00	4.00	4.00	2.00	4.00	1.00	6.00	45.00	
Downside Capture ROR	-47.69	-3.29	-20.00	-6.31	-20.07	0.22	-16.79	-37.53	
Russell 1000 Growth	-44.98	-7.62	-22.65	-7.03	-21.18	-0.26	-9.49	-36.22	
% Of Capture	106.03	43.14	88.29	89.73	94.76	-82.04	176.92	103.59	

#### TOTAL FUND vs Large Cap Growth Managers September 30, 2020 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

## Westfield Capital Large Growth

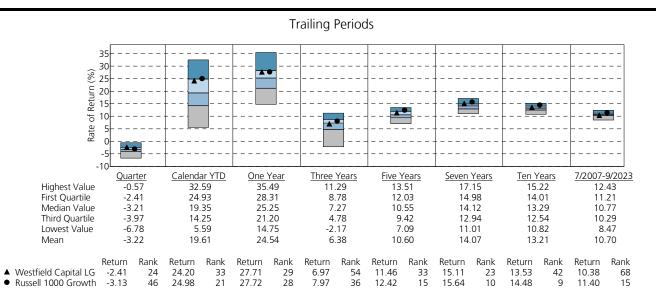
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## **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

### TOTAL FUND BENCHMARK

7/31/2007 - Present 100% Russell 1000 Growth

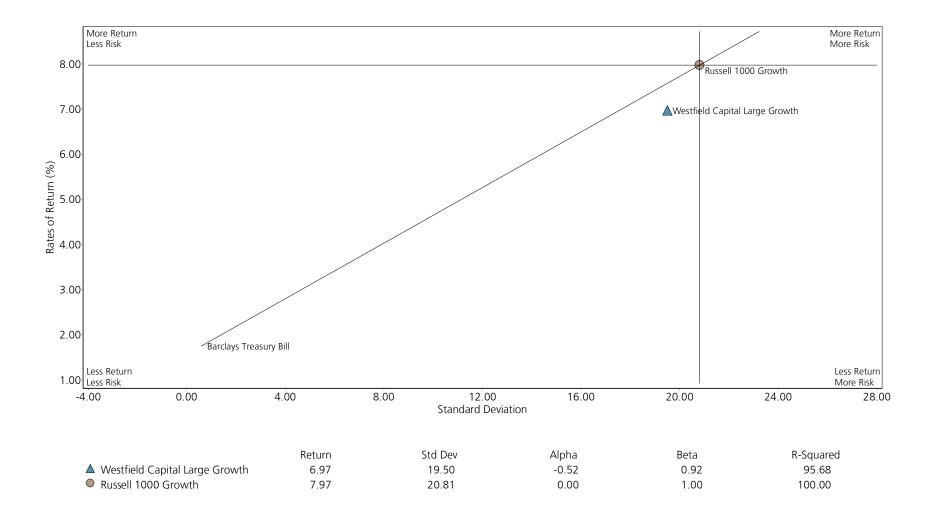


#### 80 60 Rate of Return (%) 40 **A A O** 20 **\_\_** -----... .... 4.0 -20 --40 2022 2021 <u>2020</u> 2019 2018 2017 2016 <u>2015</u> 2014 2013 2012 2011 Highest Value -11.00 33.05 72.14 41.09 7.51 37.38 12.24 13.32 17.99 44.85 22.68 8.82 First Quartile 40.48 17.79 -20.71 28.51 36.61 1.37 32.43 14.39 37.43 3.31 7.26 8.13 Median Value -28.23 24.95 34.65 33.81 -0.87 28.82 4.91 4.89 12.67 34.99 15.85 1.29 Third Quartile -31.72 20.52 27.30 31.60 -3.39 26.47 2.86 2.67 10.16 31.77 14.27 -1.92 Lowest Value -40.07 5.91 14.72 24.09 -8.91 19.95 -2.68 -3.27 6.31 28.42 9.57 -7.16 Mean -26.82 23.96 35.26 34.01 -0.88 29.15 4.98 5.17 12.39 34.84 16.04 0.90

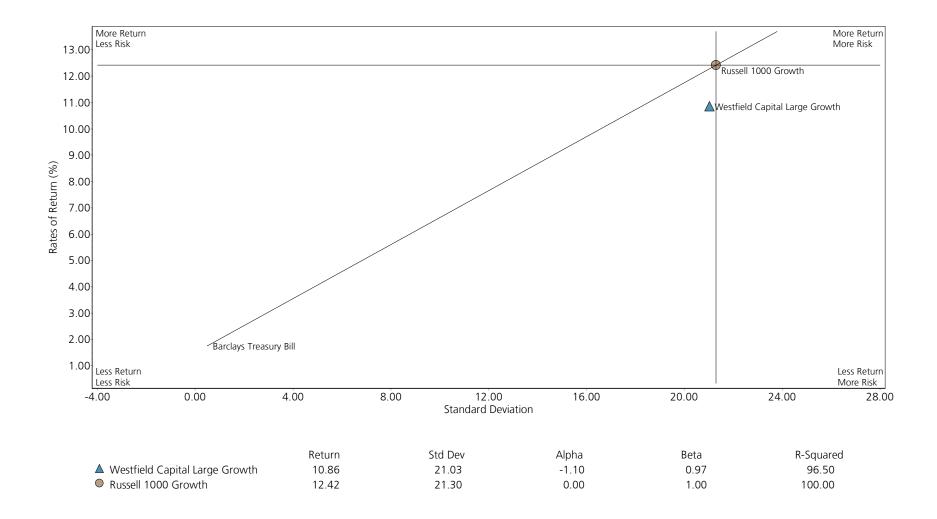
	Returi	Rank Returi F	Rank Returi F	ank Returi F	Rank Returi R	ank Returi R	ank Re	eturi Ra	ank Returi	Rank Returi	Rank Returi R	ank Retur F	ank Returi F	Rank
	Westfield Capital LG -28.5.	52 24.6C	53 35.44	47 37.0C	21 -1.83	60 31.42	32	3.56	64 3.58	63 12.58	50 37.84	19 17.83	24 -7.22	99
•	Russell 1000 Growth -29.1	58 27.6C	31 38.49	33 36.39	26 -1.51	57 30.21	39	7.08	27 5.67	43 13.05	43 33.48	62 15.26	58 2.64	33

Annual Periods

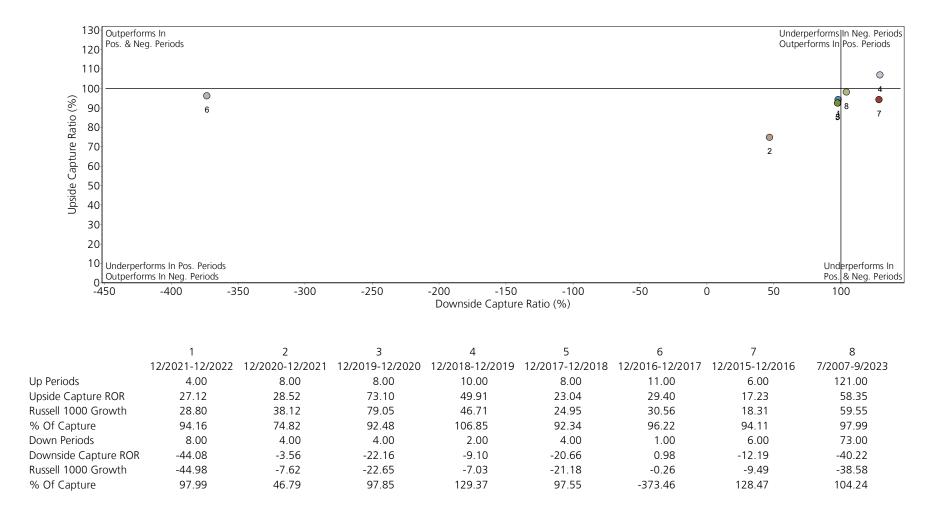
### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



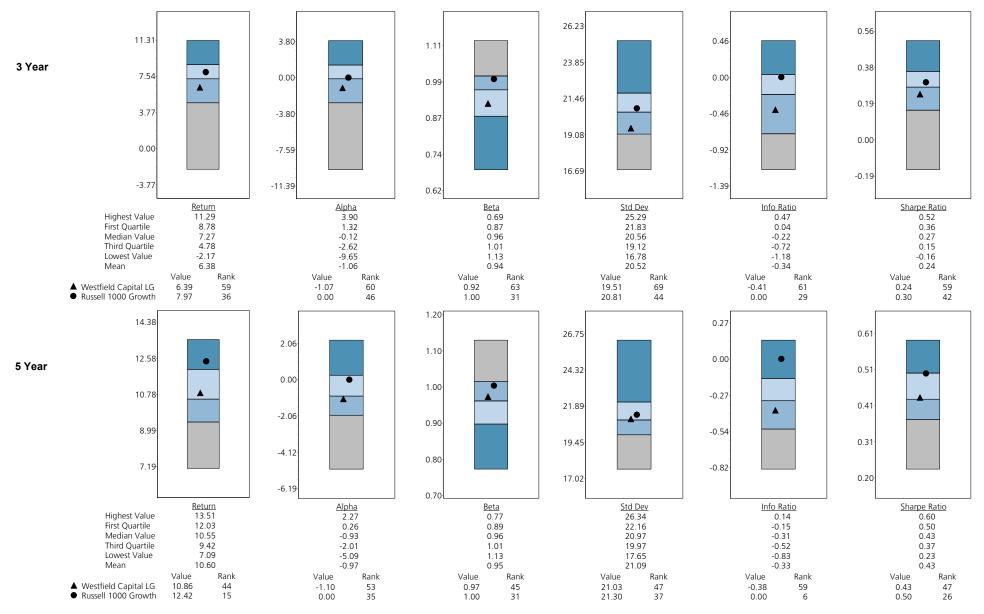
### Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



### Capture Ratio July 31, 2007 Through September 30, 2023



### TOTAL FUND vs Large Cap Growth Managers September 30, 2020 Through September 30, 2023





### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Vanguard Midcap Index Fund

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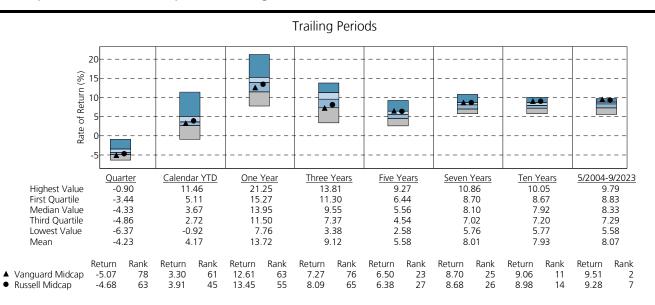
## **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

### TOTAL FUND BENCHMARK

5/31/2004 - Present 100% Russell Midcap

•

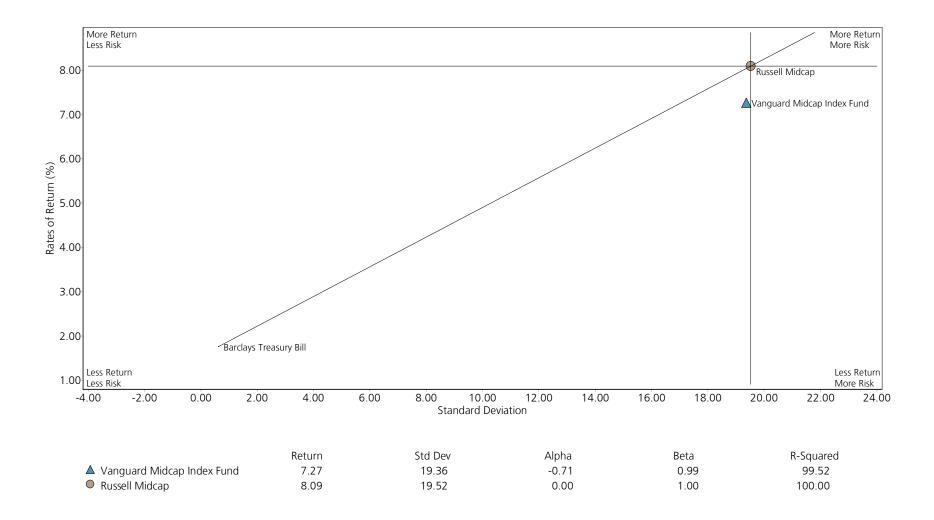


#### 50 40 **A** • (%) 30 **\*** 4. Rate of Return 20 **\* •** .... **\_** 10 . **\***• 10 -10 .... -20 -30 2022 2021 2020 2019 2018 2017 2016 2015 2014 2013 2012 2011 **Highest Value** -6.20 30.76 30.82 35.93 -3.83 24.02 21.59 3.25 15.62 44.94 23.83 4.52 First Quartile -8.74 -1.34 37.61 -13.39 26.15 17.52 30.82 18.81 17.90 11.25 18.10 -1.57 Median Value -15.55 24.01 13.07 28.05 -10.62 16.04 15.37 -2.81 9.47 35.43 17.06 -2.48 Third Quartile -18.07 20.99 9.59 25.89 -11.75 14.37 11.23 -5.47 7.53 32.96 14.26 -4.77 -15.78 Lowest Value -25.56 12.50 4.57 20.49 -16.06 9.80 5.83 -11.13 3.57 28.98 9.55 Mean -15.85 23.16 14.07 28.35 -10.26 16.45 14.37 -3.34 9.40 35.38 16.15 -3.35

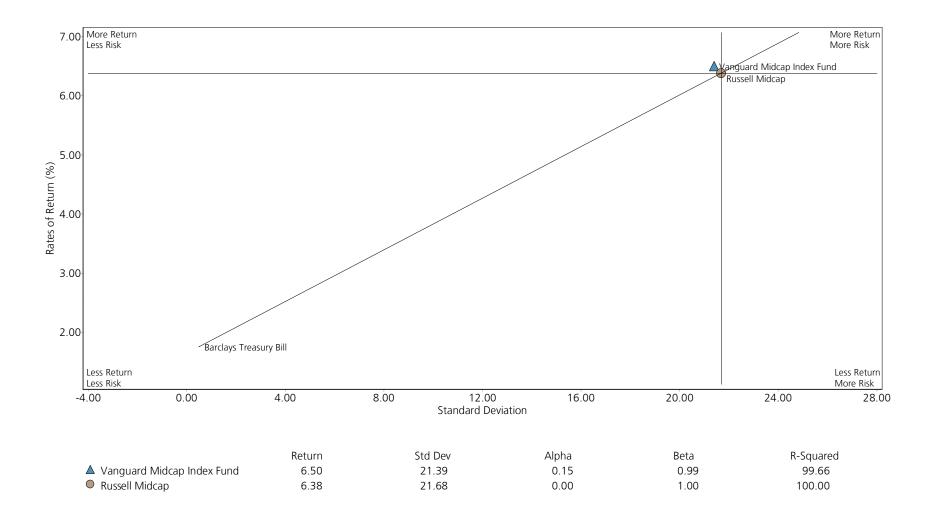
	Returi F	Rank Returi F	Rank Returr F	Rank Returr R	ank Returi F	Rank Returr	Rank Returi F	Rank Returi F	Rank Returi Ra	ank Returr F	Rank Returr R	ank Returi R	lank
Vanguard Midcap	) -18.7(	77 24.53	42 18.26	22 31.04	21 -9.20	30 19.29	18 11.23	74 -1.34	24 13.78	5 35.26	49 16.01	65 -1.99	31
Russell Midcap	-17.32	66 22.58	61 17.10	26 30.54	27 -9.06	29 18.52	27 13.8C	56 -2.44	36 13.22	9 34.76	55 17.28	42 -1.55	21

Annual Periods

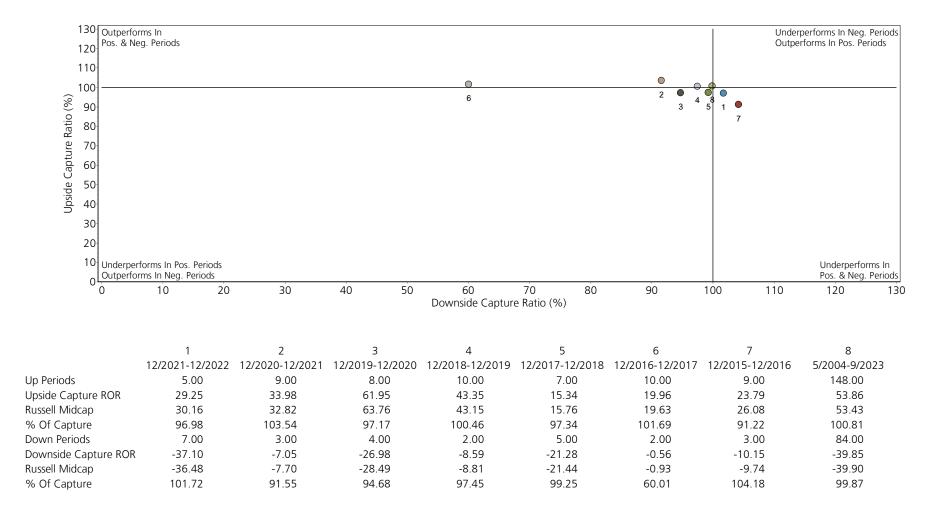
### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



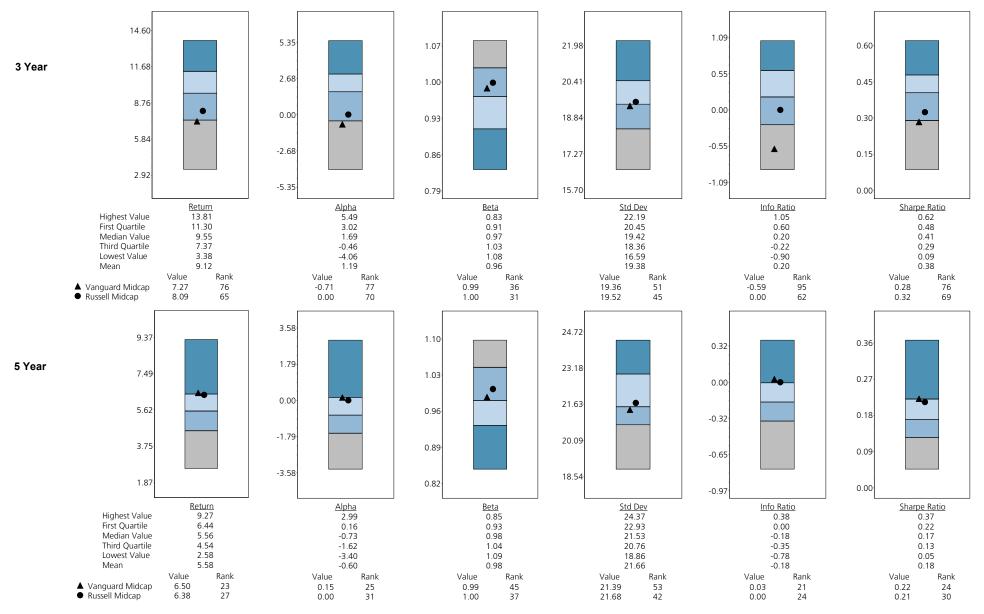
### Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



### Capture Ratio May 31, 2004 Through September 30, 2023



### TOTAL FUND vs Mid Cap Blend Managers September 30, 2020 Through September 30, 2023





### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Vaughan Nelson

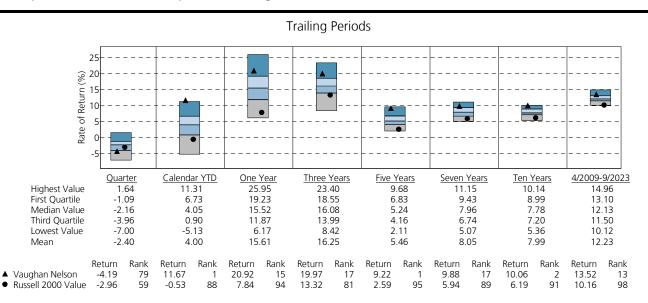
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## **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

### TOTAL FUND BENCHMARK

4/30/2009 - Present 100% Russell 2000 Value



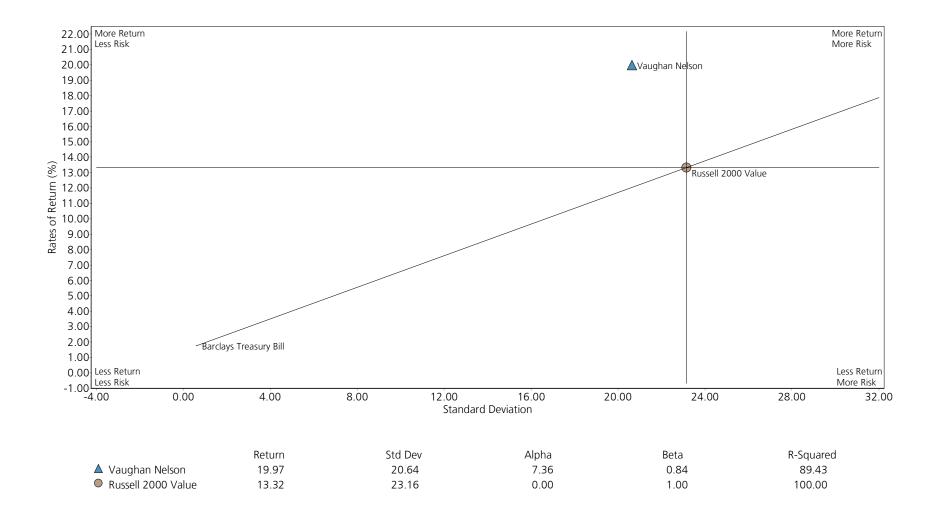
50 4 (%) -30 4 Rate of Return 20 **.** 10 ... -**.** • 1. • -20 2022 2021 2020 2019 <u>2018</u> 2017 <u>2016</u> 2015 2014 2013 <u>2012</u> 2011 21.49 Highest Value -0.41 41.82 24.57 32.57 -4.53 36.43 2.31 12.88 48.57 27.42 6.80 First Quartile 34.85 26.98 -11.36 1.10 -7.73 10.56 14.36 30.95 -1.84 8.27 42.12 20.79 Median Value -10.58 30.39 5.67 24.47 -13.58 11.99 27.41 -4.00 6.15 38.08 17.43 -1.92 Third Quartile -13.34 26.40 2.22 22.37 -15.96 8.44 23.03 -6.67 3.60 34.71 14.98 -4.96 Lowest Value -19.17 17.00 14.28 -19.82 4.78 14.37 -13.34 -3.09 29.44 10.22 -10.61 -4.61 -10.49 Mean 30.40 6.49 24.45 -13.40 11.80 26.68 -4.41 5.74 38.44 17.76 -2.05

	ReturiR	Rank Returi R	lank Returi R	ank Returi F	Rank Returi I	Rank Retu	rı Rank Returi	Rank Returi F	Rank Returi R	ank Returi R	lank Returi F	Rank Returi R	lank
Vaughan Nelson	-9.05	34 32.61	38 11.14	21 26.42	30-13.5	49 7.7	5 82 21.61	79 0.94	5 10.19	6 40.34	33 16.36	61 -2.49	56
<ul> <li>Russell 2000 Value</li> </ul>	e - 14.4{	82 28.27	58 4.63	55 22.39	74-12.8	43 7.8	4 80 31.74	14 -7.47	80 4.22	70 34.52	76 18.05	45 -5.5C	79

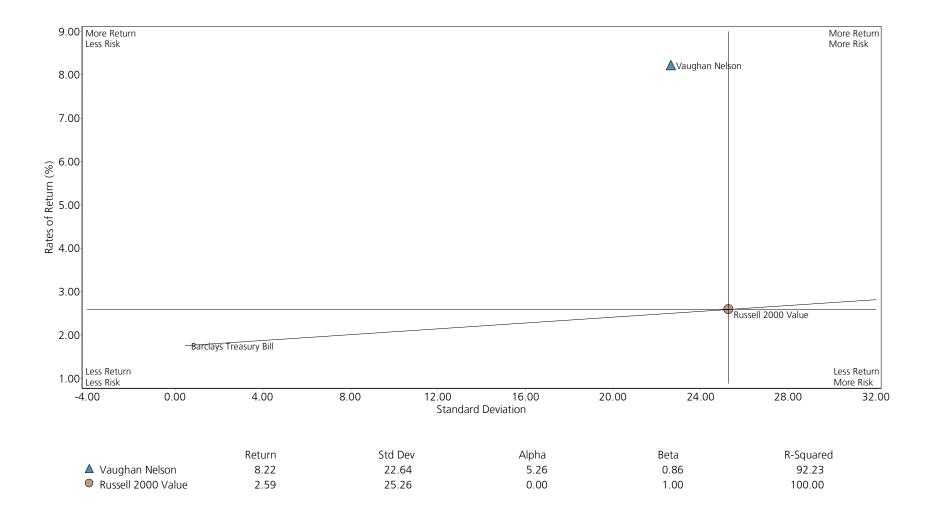
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#### Annual Periods

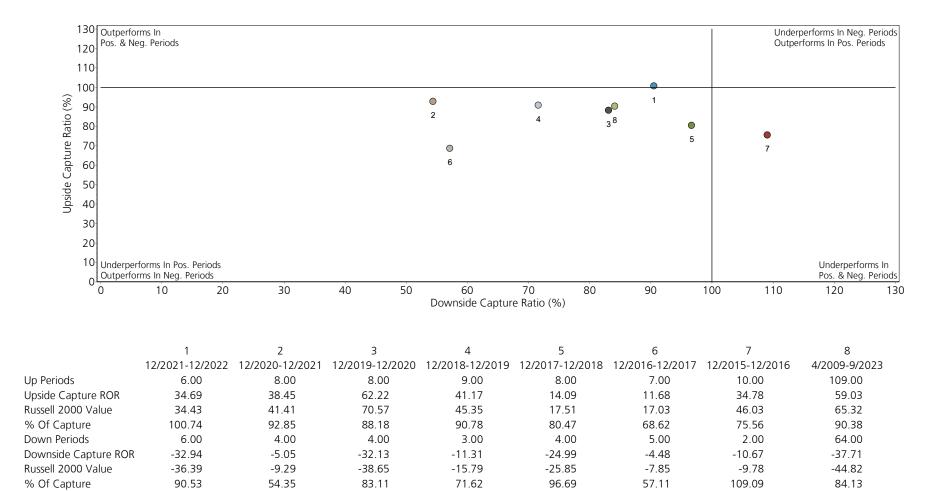
### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



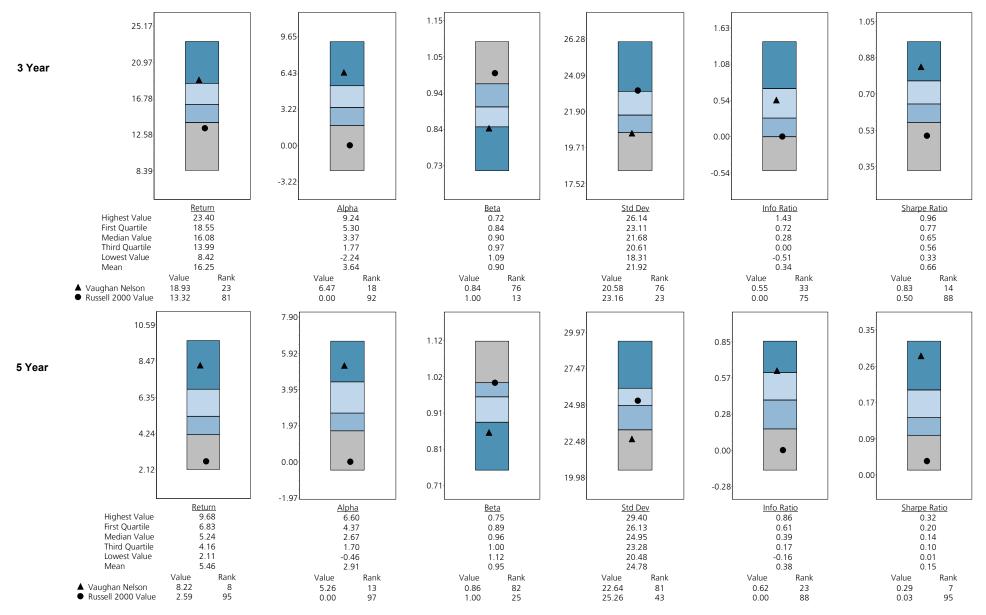
### Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



### Capture Ratio April 30, 2009 Through September 30, 2023



### TOTAL FUND vs Small Cap Value Managers September 30, 2020 Through September 30, 2023



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### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Vanguard Total International Stock Fund

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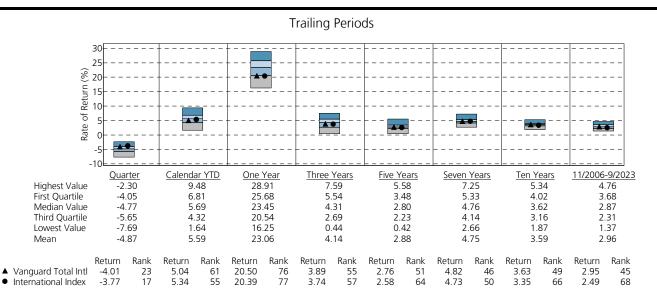
### **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

### TOTAL FUND BENCHMARK

07/01/2013 - Present 100% MSCI AC World X US Net 12/31/1998 - 06/30/2013 100% MSCI Net EAFE

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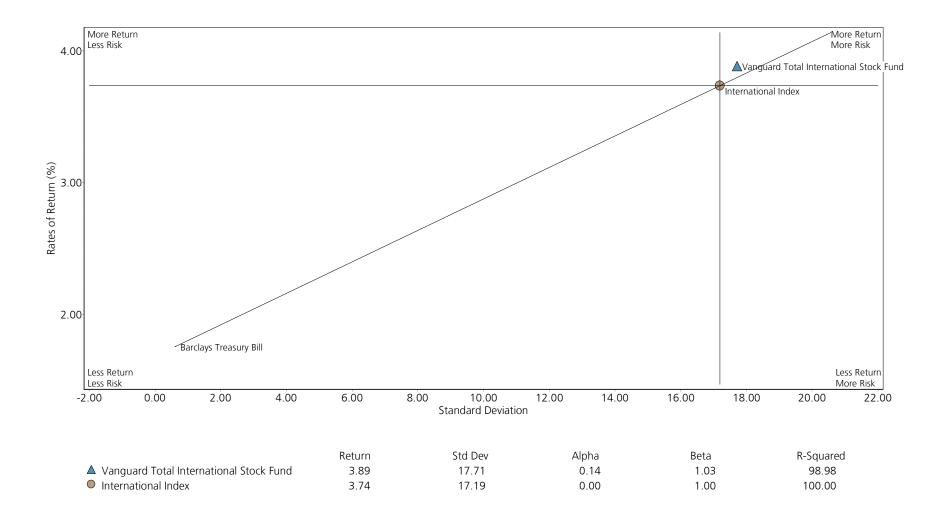


30 \*\* (%) **A** • 20 **A**. Rate of Return **A** • 10 4. **A** • --10 ... **1** -20 2022 2021 2020 2019 2018 2017 <u>2016</u> 2015 2014 2013 2012 2011 Highest Value -9.55 15.46 23.26 28.41 -10.19 31.96 6.38 4.48 1.46 28.87 25.49 -5.60 First Quartile -14.34 27.94 0.69 11.75 13.95 25.20 -13.68 2.42 -3.83 22.23 20.01 -10.77 Median Value -15.82 10.20 10.17 22.26 -14.99 25.89 0.82 -0.73 -5.29 20.63 18.29 -12.94 Third Quartile -17.85 7.78 7.84 20.88 -16.71 24.58 -0.79 -2.35 -6.34 18.06 16.78 -14.57 Lowest Value -22.17 3.68 3.87 17.61 -21.00 18.63 -4.46 -8.35 -10.07 13.51 12.52 -20.29 -15.95 Mean 9.89 11.24 22.79 -15.23 26.14 0.90 -1.00 -4.91 20.41 18.35 -12.67

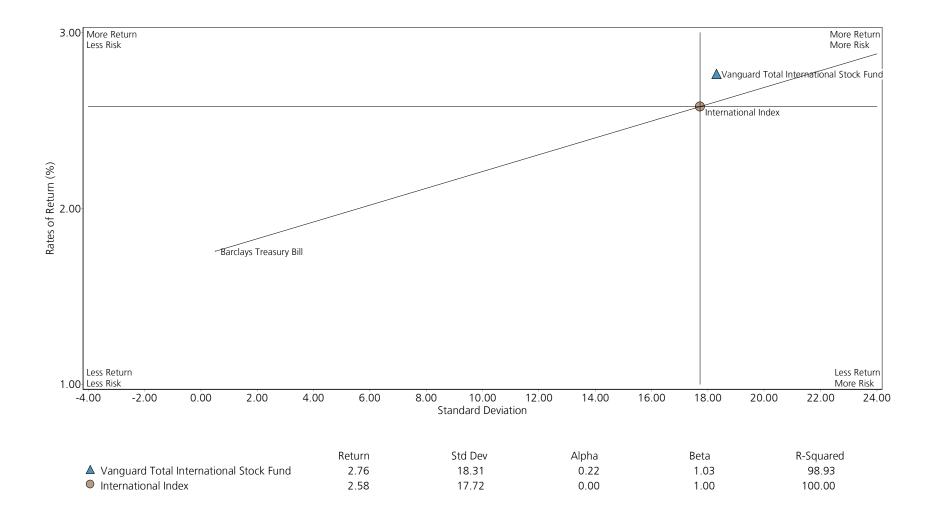
	Retur	Rank	ReturiR	ank Returi F	Rank Returi F	Rank Returi F	Rank Returi F	Rank Re	eturi R	Rank Returi R	ank Returi F	Rank Returi R	lank Returi R	ank Returi R	ank
	Vanguard Total Intl -15.98	52	8.68	67 11.28	40 21.56	61-14.3	41 27.57	29 4	4.7C	6 -4.24	86 -4.15	29 15.15	91 18.27	49-14.6	76
)	International Index -16.00	52	7.82	74 10.65	46 21.51	62 - 14.2(	37 27.19	34 4	4.5C	8 -5.66	93 -3.87	24 20.07	56 17.32	64-12.14	37

Annual Periods

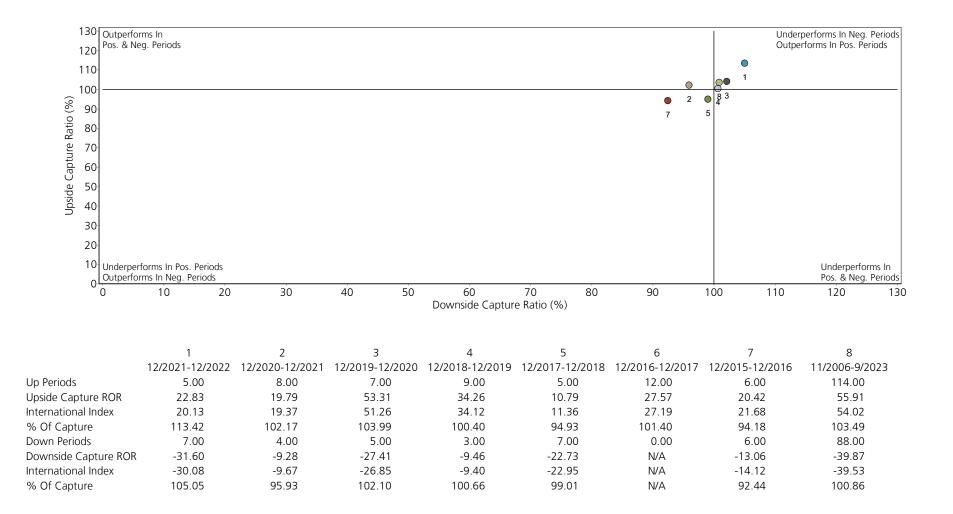
### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



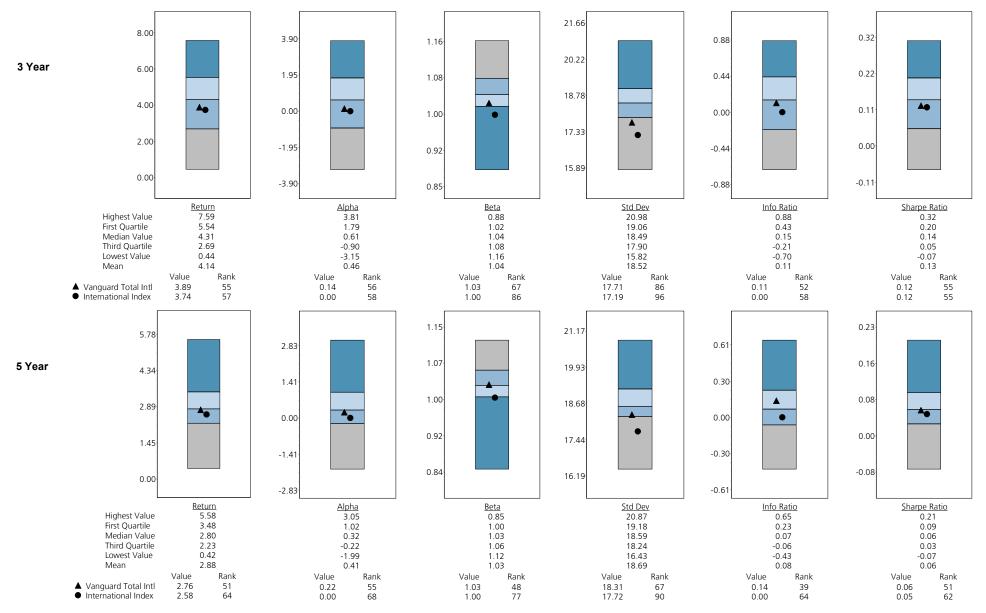
### Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



### Capture Ratio November 30, 2006 Through September 30, 2023



### TOTAL FUND vs Foreign Large Blend Managers September 30, 2020 Through September 30, 2023





### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Blackrock Global Allocation Fund First Eagle Global Fund Loomis Sayles Global Equity & Income Fund

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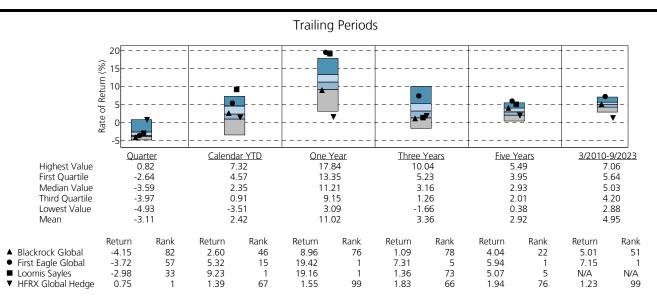
## **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

### TOTAL FUND BENCHMARK

3/31/2010 - Present 100% HFRX Global Hedge Fund Index



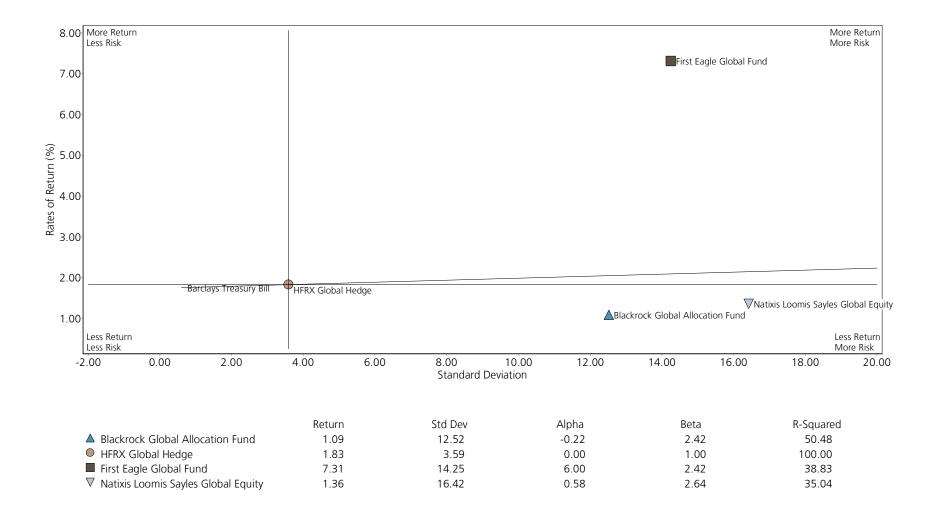


#### 25 20 Rate of Return (%) 15 10 • -1( -15 2013 2016 2015 2014 2012 2011 **Highest Value** 13.97 0.79 9.69 24.32 17.98 3.86 First Quartile 7.45 -1.67 4.03 17.26 14.31 1.46 Median Value 5.60 3.04 12.54 -3.08 15.21 -2.10 Third Ouartile 4.13 -4.58 1.72 11.35 10.96 -3.56 Lowest Value 1.57 -12.66 -5.02 -3.43 7.38 -8.38 Mean 6.23 -3.55 2.94 13.92 12.65 -1.71 Return Rank Return Rank Return Rank Return Rank Return Rank Return Rank ▲ Blackrock Global 4.09 73 -0.83 14 2.15 68 14.71 56 10.33 82 -3.43 71 • First Eagle Global 10.94 6 -0.66 11 3.19 43 15.79 42 12.73 43 -0.50 36 Loomis Sayles 4.67 65 N/A ▼ HFRX Global Hedge 2.50 95 -3.64 60 -0.58 92 6.72 87 3.51 99 -8.87 99

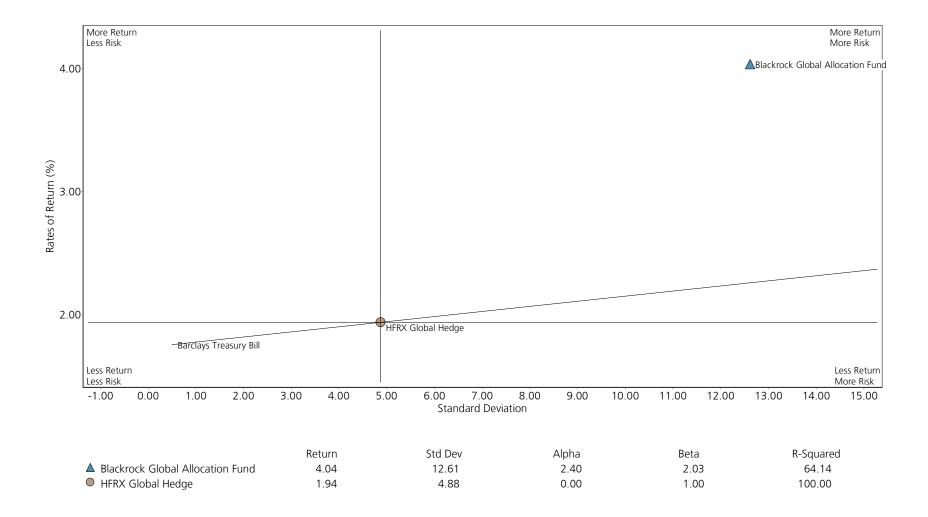
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#### Annual Periods

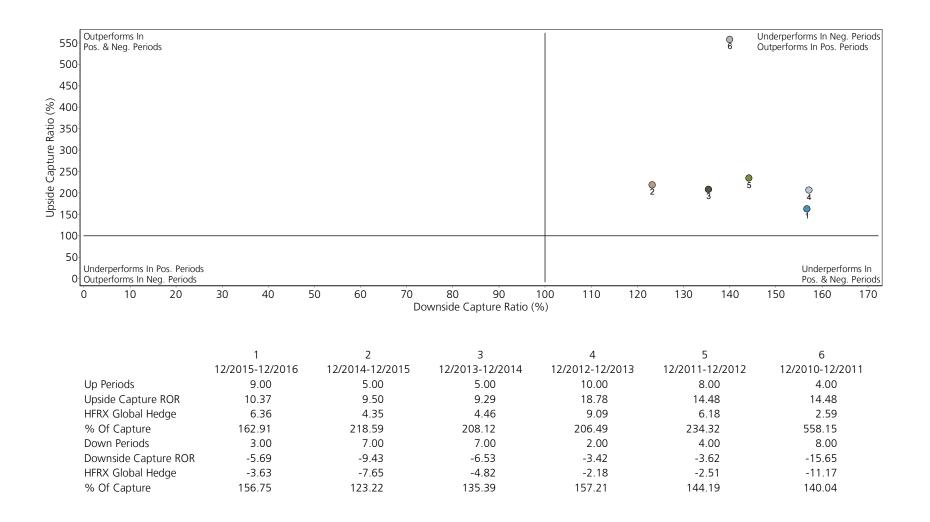
### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



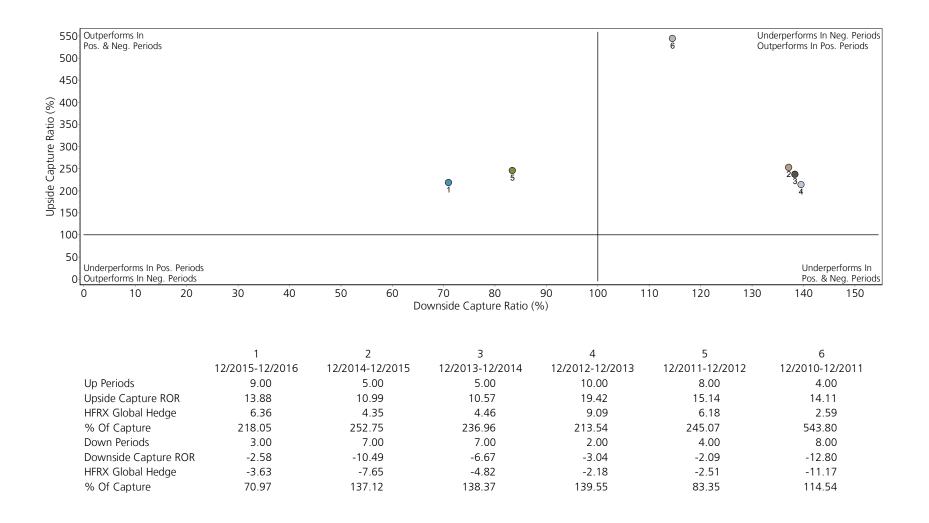
### Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



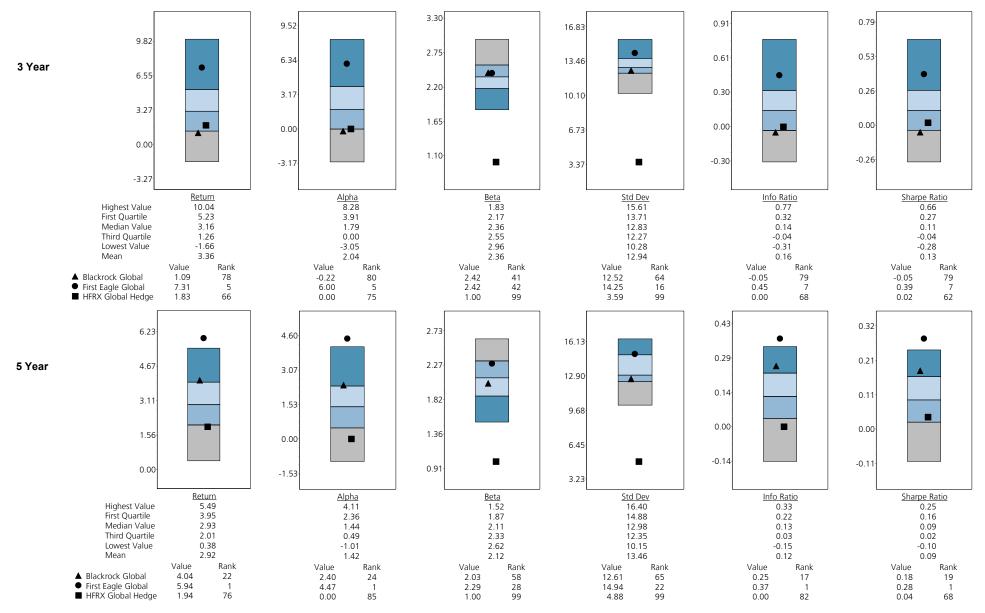
### Capture Ratio - Blackrock Global Allocation Fund December 31, 2010 Through December 31, 2016



### Capture Ratio - First Eagle Global Fund December 31, 2010 Through December 31, 2016



### TOTAL FUND vs Global Allocation Universe Managers September 30, 2020 Through September 30, 2023





### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Vanguard International Growth

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

This report is provided for informational purposes only. The information shown was obtained from sources believed to be reliable, the accuracy of which cannot be guaranteed. Account statements provided by UBS or other financial institutions are the official record of your holdings, balances, transactions and security values and are not amended or superseded by any of the information presented in this report. Information is current as of the date shown. Past performance is no guarantee of future returns. See IMPORTANT INFORMATION at end of report for assumptions and limitations of the analysis in this report, risk considerations, valuation, fees and other details regarding this report.

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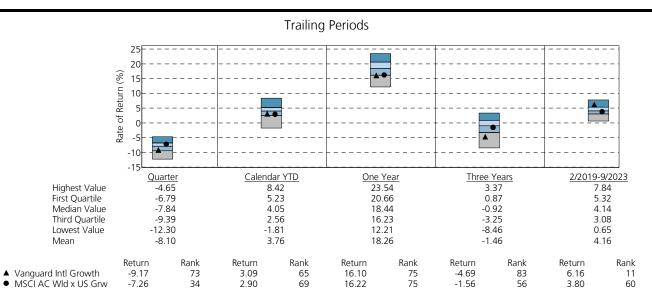
## **Performance Analysis**

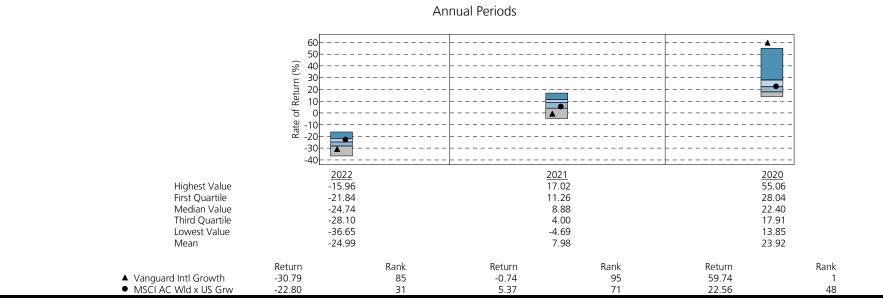
The primary index comparison for your portfolio and each of its asset classes is listed below.

### TOTAL FUND BENCHMARK

2/6/2019 - Present 100% MSCI AC World Index ex USA Growth

#### **TOTAL FUND Peer Universe Comparison versus Foreign Large Growth Managers**







#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **Tweedy Browne Global Value**

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

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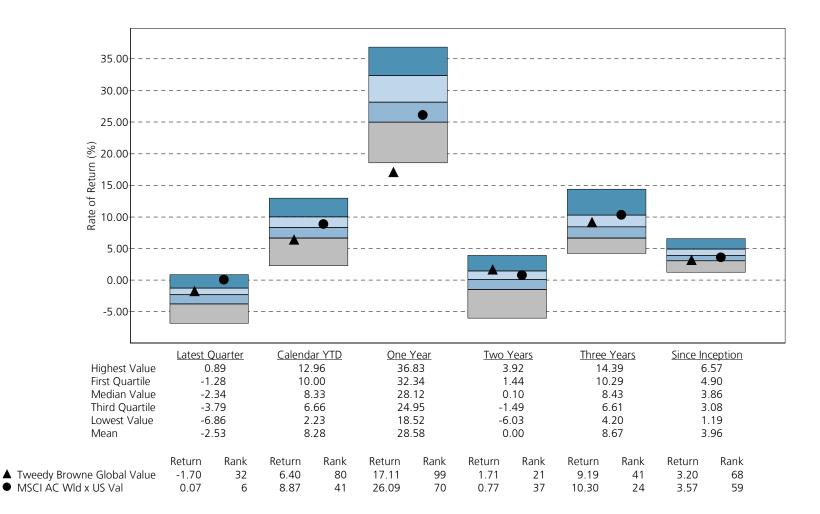
# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

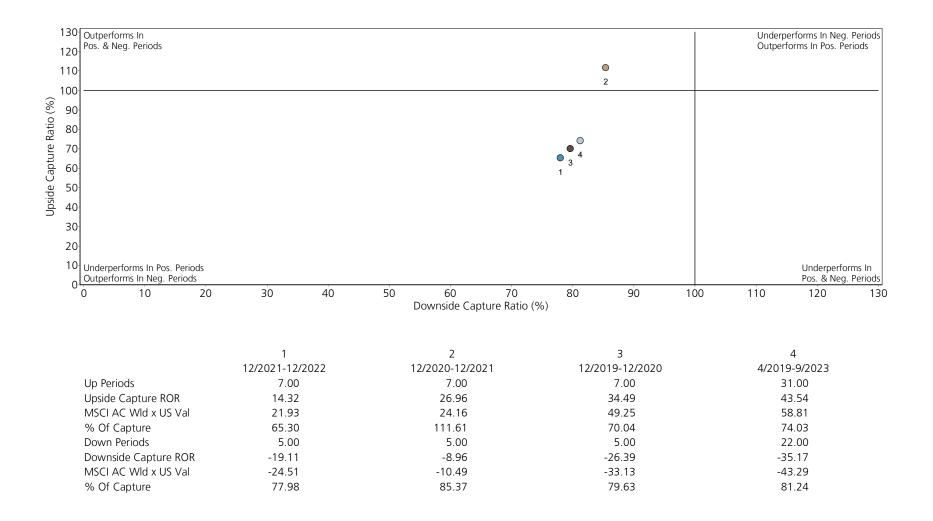
### TOTAL FUND BENCHMARK

4/10/2019 - Present 100% MSCI AC World Index ex USA Value

#### TOTAL FUND versus Foreign Large Value Managers April 30, 2019 Through September 30, 2023



### Capture Ratio April 10, 2019 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Fuller & Thaler Small Cap Growth

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

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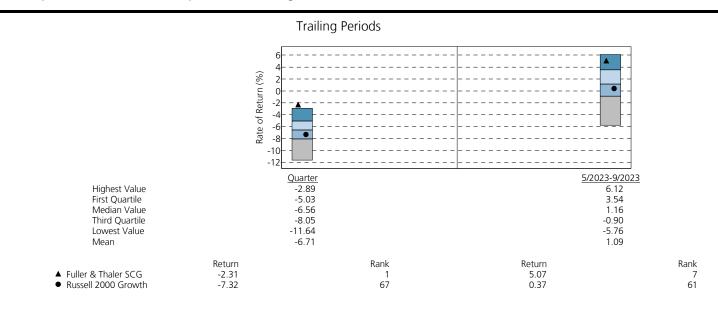
# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

## TOTAL FUND BENCHMARK

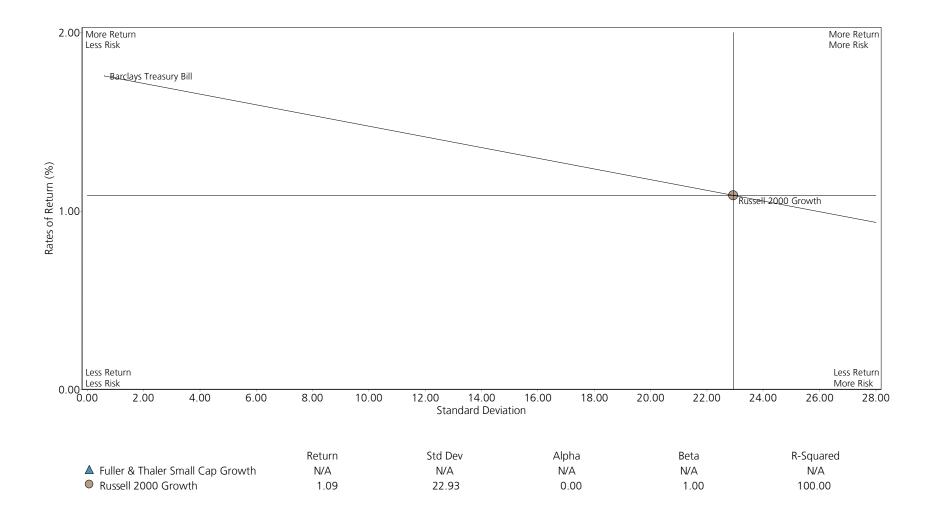
5/16/2023 - Present 100% Russell 2000 Growth

#### **TOTAL FUND Peer Universe Comparison versus Small Cap Growth Managers**

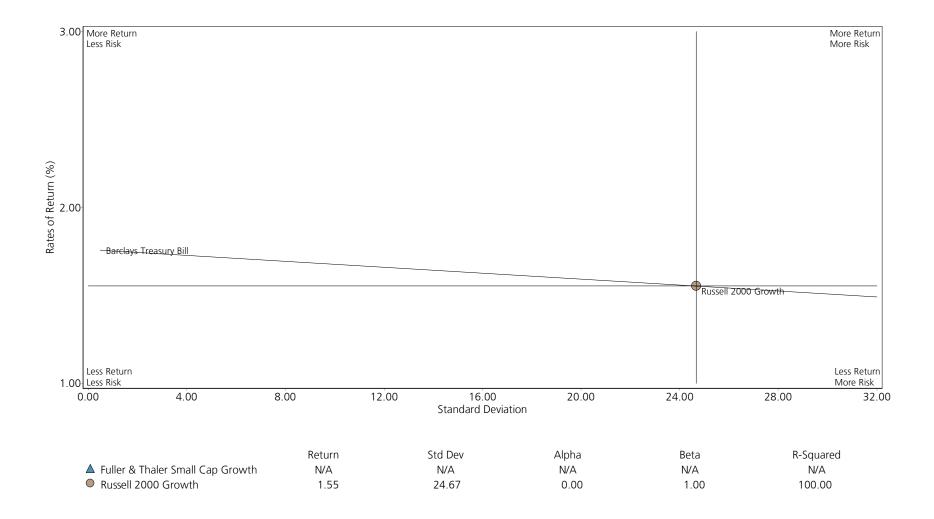


Annual Periods

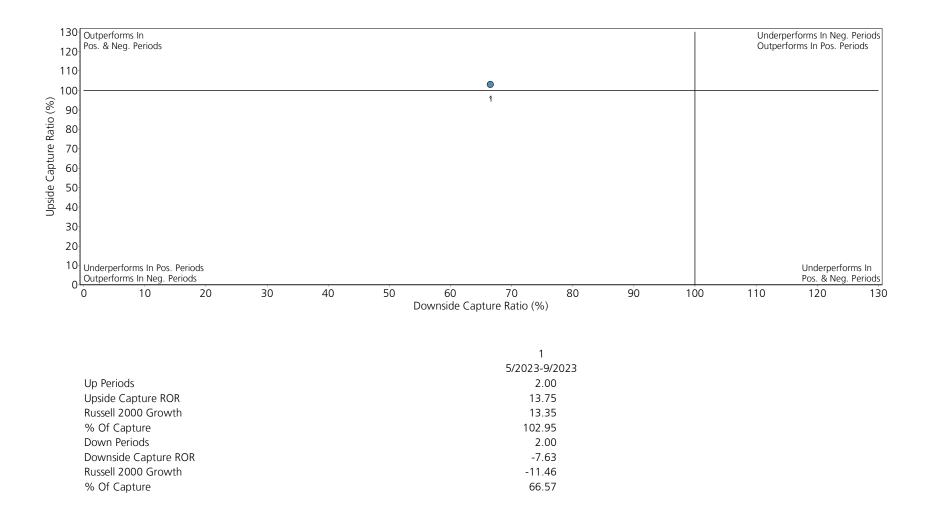
#### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



#### Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



### Capture Ratio May 16, 2023 Through December 31, 2022





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb County Employees Retirement System October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **Delaware Diversified Income I**

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

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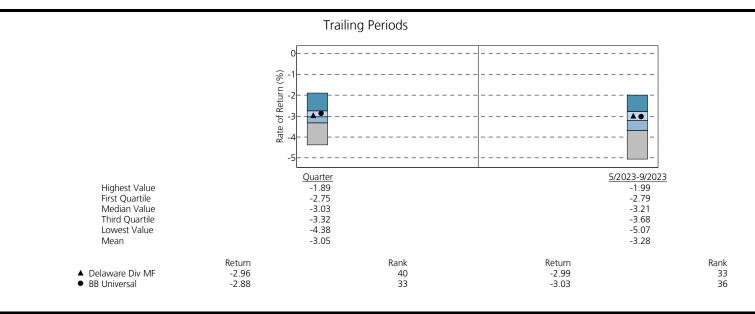
# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

## TOTAL FUND BENCHMARK

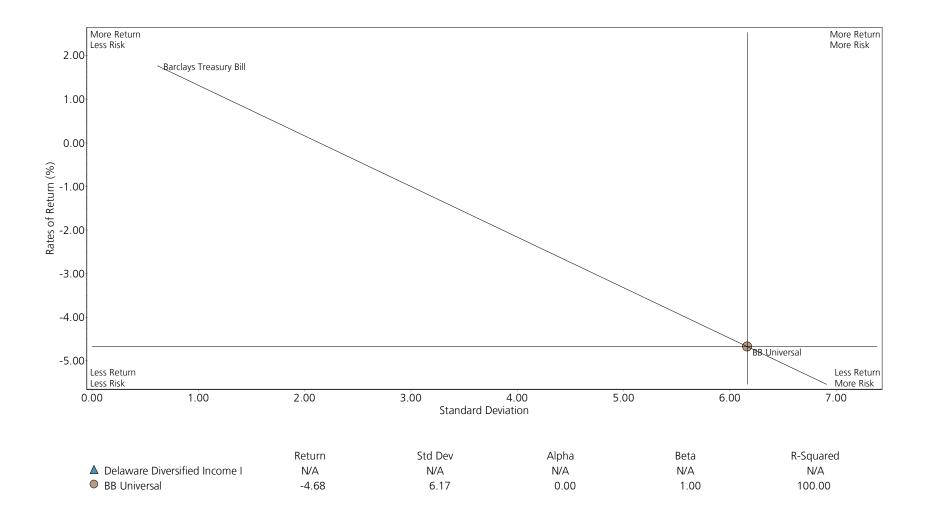
5/8/2023 - Present 100% Bloomberg Barclays US Universal

#### **TOTAL FUND Peer Universe Comparison versus Intermediate Core Plus Bond Managers**

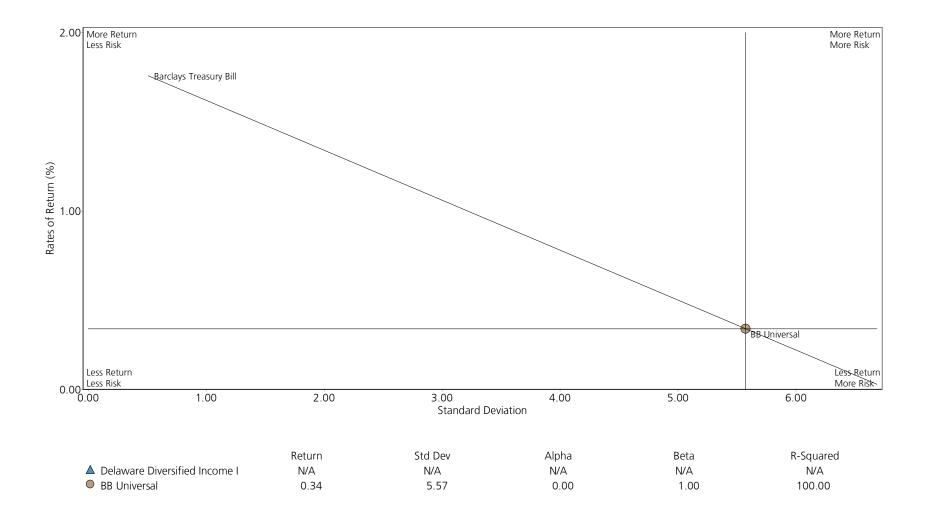


Annual Periods

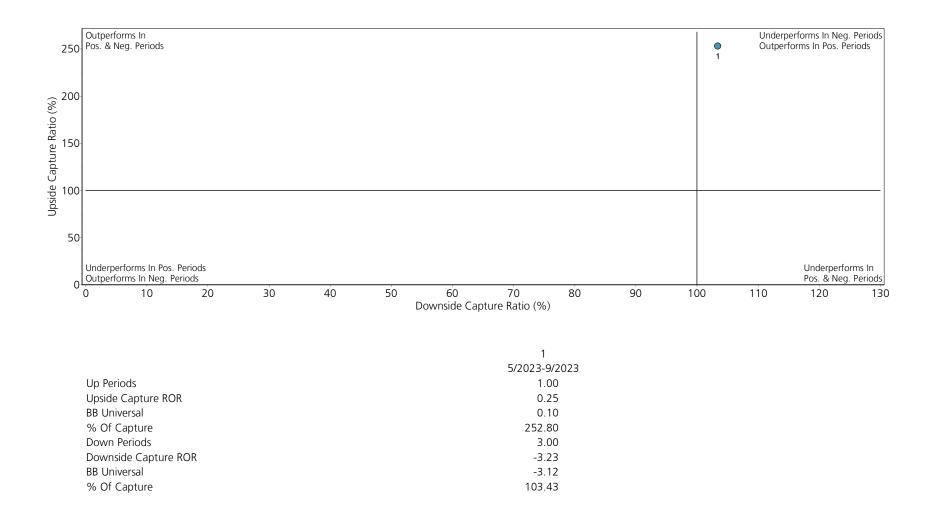
#### Risk vs Reward Analysis September 30, 2020 Through September 30, 2023



#### Risk vs Reward Analysis September 30, 2018 Through September 30, 2023



### Capture Ratio May 8, 2023 Through December 31, 2022



## **Cobb County Employees Retirement System - Investments Not Reviewed by UBS**

UBS does not conduct due diligence and has not otherwise reviewed the following investments or strategies, which are included in this report at your request. You have retained this investment or strategy without the assistance of UBS or any of its employees. The inclusion of these investments/strategies in this performance report does not constitute a recommendation by UBS that you continue to invest or add funds to the strategy.

UBS does not make initial or ongoing recommendations on this investment or manager strategy to existing or prospective clients.

The IC program offers a broad spectrum of investments and manager strategies that are researched by UBS and for which clients can receive investment advice and research. Your IC fee will not be offset or reduced as a result of not accessing our researched options.

At the time of report creation, all investments in your portfolio are reviewed.

Cash and Money Market Funds are not included in this analysis. UBS does not research any money market mutual funds, other than those offered by UBS and its affiliates.

## **Performance Reconciliation Adjustments**

This section provides a record of differences between information reported by your custodian and information used to create this performance report, whether at your direction or as prescribed by your Institutional Consultant on your behalf.

_Scenario De	scription	Net Adjustment (+/-)

No differences in information were used in the creation of this performance report.

#### IMPORTANT INFORMATION

This report is provided for informational purposes only, does not constitute an offer to buy or sell securities or investment products, does not constitute a recommendation that you buy, sell or hold securities or investment products, and is current as of the date shown. It may include information regarding your UBS Institutional Consulting ("IC") or UBS Consolidated Advisory Program ("CAP") accounts held at various UBS entities including UBS Financial Services Inc., UBS Securities LLC and UBS AG (collectively, "UBS" or "UBS entities"), as well as accounts you hold at other financial institutions. Accounts included in this report are identified at the beginning of the report. Information may be shown for individual accounts or as one or more combined portfolios; the accounts included in each portfolio are also identified at the beginning of the report.

If this output is provided as part of a proposal, it is marketing material. It is provided to you for discussion and consideration and is intended to aid (and be used by) your UBS Consultant or Financial Advisor in providing you with actual individualized investment recommendations. Therefore, they should only be considered in conjunction with the actual recommendations and advice of your UBS Consultant or Financial Advisor, our standard account documents, agreements, disclosures, including the ADV Disclosure for applicable advisory programs, and the additional factors that warrant consideration for your particular financial situation, including costs. The options presented are for discussion purposes only and do not constitute a recommendation to buy, hold, or sell any securities or investment products. This material is not intended and should not be construde to constitute investment advice and does not itself create a fiduciary relationship between you and UBS. You must make independent decisions with respect to any proposals contained within this report. In making those decisions you have reviewed the terms of any Plan with respect to which you are a fiduciary and your obligations to any such Plan under ERISA. If you would like more details about any of the information provided, or personalized recommendations or advice, please contact your UBS Financial Advisor.

Accounts and Assets Included: UBS account statements are the only official records of holdings, balances, transactions, and security values of assets held in UBS accounts and are not replaced, amended or superseded by any of the information presented in this report. If assets that you hold at other financial institutions are included in this report, they are being provided as part of your IC or CAP Services Agreement or you have asked us to include those assets as an accommodation but they are not included as part of your IC or CAP Services Agreement with us. If assets included solely as an accommodation, these assets are identified as such in this report. In either situation, the inclusion of assets held at another financial institution is based on information, including valuation and transactional information, furnished to UBS by you or your custodian. We have not verified, and are not responsible for, the accuracy or completeness of this information. This report is not intended to provide you with consolidated information or reporting regarding your holdings, balances, transactions, and security values of assets, such as account statements for individual accounts held away from UBS. Those documents contain their record of holdings, balances, transactions, and security values of assets held in those accounts, as well as notices, disclosures and other information important to you, and may also serve as a reference should questions arise regarding the accuracy of the information in this report. UBS Financial Services Inc. SIPC coverage would only apply to those assets held at UBS Financial institution where you hold an account to determine the availability of SIPC coverage, if any. We require that you hold and purchase only elligible managed assets in your UBS advisory accounts.

Investment Monitoring: Your IC or CAP Agreement defines the investment monitoring performed as part of your respective investment advisory program. If we have included assets held in UBS brokerage accounts, it is important that you understand that we do not act as an investment adviser or fiduciary on brokerage assets. We do not monitor brokerage account investments through the IC or CAP Programs and we do not monitor investments as a brokerage service unless specifically agreed to in writing. This report is provided solely to help you evaluate your account performance and/or progress toward your financial objectives. By providing this report to you, we are not agreeing to monitor any brokerage account investments contained within the report. If you want ongoing monitoring of your brokerage investments, please speak with your financial advisor about the possibility of including such investments as part of an investment advisory relationship with us. Inclusion of brokerage assets in this report also distorts the actual performance of your advisory assets.

Valuation: Values shown are not inclusive of margin balances. Every reasonable effort has been made to accurately price securities; however, we make no guarantee with respect to any security's price. To determine the value of securities in your account, we generally rely on third party quotation services. If a price is unavailable or believed to be unreliable, we may determine the price in good faith and may use other sources such as the last recorded transaction. We will generally rely on the value provided by you, the custodian or issuer of that security, when (i) securities are held at another custodian; (ii) investments not available through UBS or that our systems do not recognize. To obtain current quotations, when available, contact your Institutional Consultant or Financial Advisor. Such pricing may impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financ

Performance Analytics: Unless otherwise noted, performance shown is based on Time Weighted Rate of Return. Periods greater than one year have been annualized, but annual performance may not represent a full calendar year depending on the inception date of the first account included in these reports. Standard deviations are shown only for periods of 12 months or longer. When you hold your assets at UBS, this report will generally show performance net of manager and UBS Institutional Consulting fees, unless you and your UBS Financial Advisor decided to reflect fee information differently. If you hold your assets away from UBS, this report will generally show performance net of manager and UBS Institutional Consulting fees if your custodian provides that level of fee information, unless you and your UBS Financial Advisor decided to reflect fee information, unless you and your UBS Financial Advisor decided to reflect fee information differently. Therefore, this report may reflect performance before the deduction of manager fees and/or UBS Institutional Consulting advisory fees. The payment of fees and expenses will reduce the performance of the account and the reduction in performance will have a cumulative effect over time. The net effect of the payment of fees on the annualized performance, and the compounded or cumulative effect over time, is dependent on the amount of the fee and the account's investment performance. For example, an account that experiences an annual gross performance of 10% but incurs a 2.8% annual fee that is deducted quarterly on a prorated basis, will experience net annual performance of 7.1%, a reduction of 2.9% per year. Compounding will similarly affect the account's performance of 7.1%, a reduction of 2.9% per year.

Performance information incorporates data as of the date your accounts became available for these reports, not as of your initial acquisition of a particular investment unless performance history is imported at client's instruction. For reports that reflect combined account information, the inception date will be the earliest performance start date of any of the individual accounts selected for the consolidation time period. If an individual account's performance information is not available for a full reporting time period (month to date, quarter to date, year to date or performance to date), that account's information will only be included for the period when available. For consolidated accounts that include different account inception dates, the consolidated Additions/Withdrawals, Income Earned and Investment Appreciation/ Depreciation will be reported on from the month end date of when insurance products will be treported on from the month end date of when insurance and annuity activity could be obtained from the carrier. To the extent that your historical data contains a mixture of net and gross performance history related to manager or advisory fees, those distinctions will impact your performance reports to the extent that the different methods of reporting are blended. Note that various factors, including unpriced securities and certain holdings, adjustments or activity may cause the results shown in this report to differ from actual performance (see the Performance reports provided to you by UBS. Performance information may be impacted by the different ways each UBS entities nor any of the these results may differ from other performance is no guarantee of future results. Neither the UBS entities nor any of

You have discussed the receipt of this individually customized report with your Financial Advisor. Your UBS account statements and trade confirmation are the official records of your accounts at UBS. We assign index benchmarks to our asset allocations, strategies in our separately managed accounts and discretionary programs based on our understanding of the allocation, strategy, the investment style and our

research. The benchmarks included in this report can differ from those assigned through our research process. As a result, you may find that the performance comparisons may differ, sometimes significantly, from that presented in performance reports and other materials that are prepared and delivered centrally by the Firm. Depending upon the composition of your portfolio and your investment objectives, the indexes used in this report may not be an appropriate measure for comparison purposes, and as such, are represented for illustration only. Your portfolio holdings and performance may vary significantly from the index. Your financial advisor can provide additional information about how benchmarks within this report were selected.

Using Margin in your IC or CAP Investment Advisory Accounts. Using margin in an advisory account is a more aggressive, higher risk approach to pursuing your investment objectives. Unless you have selected a strategy that requires the use of margin as part of its implementation, we do not recommend the use of margin in advisory accounts, including IC and CAP accounts. The decision to leverage in an advisory account rests solely with you and is made against our recommendation. Your decision should be made only if you understand: (1) the risks of margin in an advisory account; (2) how margin may affect your ability to achieve investment objectives; (3) that you may lose more than your original investment. You will pay interest to UBS on the outstanding margin loan balance. Using margin to purchase securities in an advisory account increases the amount of (but not the percentage of) the advisory fee you pay. Positive or negative performance of a margined advisory account will be magnified by virtue of using margin. You will not benefit from using margin in an advisory account if the performance of your account does not exceed the interest expense being charged on the loan plus the additional advisory account fees incurred by your account as a result of the loan proceeds.

Using Advisory Accounts as collateral for a credit line. If you currently have UBS Bank USA Credit Line collateralized by advisory accounts, UBS Bank USA pays UBS Financial Services a servicing fee based on the amount of outstanding loan balances to compensate UBS for referring clients and for administrative and operational support relating to the loan. If you maintain a balance on a non-purpose loan, your Financial Advisor will receive compensation primarily based upon the outstanding balance and the corresponding spread on the loan. This provides an incentive for your Financial Advisor to refer you for a non-purpose loan and to draw down on the loan. As UBS and your Financial Advisor are compensated primarily through advisory fees paid on your account, we (and your Financial Advisor) benefit if you draw down on your loan to meet liquidity needs rather than sell securities or other investments in your UBS account, which would reduce our advisory fee. A draw down would preserve your Financial Advisor's advisory fee revenue and may generate additional loan-related compensation for him. This presents a potential conflict of interest for your Financial Advisor when addressing your needs for liquidity. Please consider your options and these conflicts of interest carefully when deciding whether to liquidate assets or draw down on a non-purpose loan.

UBS Financial Services Inc. is in the business of establishing and maintaining investment accounts and we will receive compensation from you in connection with investments that you make, as well as additional compensation from third parties whose investments we distribute. This presents a conflict of interest when we recommend that you move your assets to UBS from another financial institution, and also when we make investment recommendations for assets you hold at, or purchase through, UBS. For more information on how we are compensated by clients and third parties, conflicts of interest and investments available at UBS please refer to the 'Your relationship with UBS' booklet provided at ubs.com/relationshipwithubs, or ask your UBS Financial Advisor for a copy.Neither UBS, our affiliates nor our Financial Advisors will act as investment adviser to you with respect to the liquidation of securities held in an advisory account to meet a margin call or credit line loan demand

**Benchmark Index Information**: For comparison purposes, these reports may contain a number of general broad market indices, which were selected to demonstrate the performance of broad market indicators that are readily recognized, rather than for direct performance comparisons, and do not reflect the performance of actual investments. The selection and use of benchmarks is not a promise or guarantee that your accounts will meet or exceed the stated benchmarks. Benchmark information is illustrative and relates to historical performance of market indexes and not the performance of actual investments. Indexes are not available for direct investment and reflect an unmanaged universe of securities. Indices assume no management, custody, transaction fees or expenses that would lower the performance results, and assume reinvestment of dividends and capital gains. Information presented. Market index data is subject to review and revision, and UBS reserves the right to substitute indices or display only those indices for which current updated information is available. Information regarding the indexes shown in this report.

**Risk Considerations**: Some of the general risk considerations associated with the investment options included in this report are described below. The descriptions are not meant to be a complete list of all investment risks. For more complete information regarding fees, expenses, risks and restrictions associated with these investments please review the offering documents and marketing materials. Investors should consult their tax advisor about their specific tax situation before investing in any securities. In addition, clients should familiarize themselves with the particular market risks and the other risks associated with the specific investment. All investments contain risk and may lose value.

Cash and cash alternatives: Cash and cash alternatives typically include money market securities or three-month T-Bills. These securities have short maturity dates and they typically provide a stable investment value as compared to other investments and current interest income. These investments may be subject to credit risks and inflation risks. Treasuries also carry liquidity risks for sales prior to maturity. Investments in money market funds are neither insured not guaranteed by the Federal Deposit Insurance Corporation ("FDIC"), the U.S. government or any other government agency. There can be no assurance that the funds will be able to maintain a stable net asset value at \$1.00 per share or unit.

Alternative Investments: Non-traditional asset classes are alternative investments that include hedge funds, private equity, and private real estate (collectively, non-traditional or alternative investments). These investments can be subject to substantial risks (including the risks associated with limited liquidity, the use of leverage, short-sales and concentrated positions), may involve complex tax structures and strategies, and may not be easily valued. The risks of alternative investments should be carefully considered in light of your investment objectives, risk tolerance and net worth. Alternative investments are speculative and entail substantial risks, which may place your capital at risk. Alternative investments may not have been registered with the Securities and Exchange Commission or under any state securities laws. The market for such investments may be highly illiquid and subjectively valued, and these reports provide values for informational purposes only. Accuracy is not guaranteed. These values may differ substantially from prices, if any, at which a unit may be bought or sold and do not necessarily represent the value you would receive from the issuer upon liquidation. Issuer estimated values, if any, are generally updated on a regular (annual or semi-annual) basis and are supplied to us by the issuer, but may be calculated based on different information from what is used by third parties to derive their estimated values.

U.S. Fixed Income: Fixed income represents exposure (whether direct or indirect) to debt issued by private corporations, governments or federal agencies. Historically, fixed income has higher return than cash investments but their value can fluctuate dramatically as they are subject to risks including market, interest rate, issuer, credit, default and inflation risk. An investment in a portfolio may be worth more or less than its original cost when redeemed. In addition, fixed income generally has less volatility and long-term return than equities. U.S. fixed income may be further classified as high yield. These investments are high yielding but may also carry more risk. A bond funds yield and value of its portfolio fluctuate and can be affected by changes in interest rates, general market conditions and other political, social and economic developments.

**U.S. Equity:** Equities represent exposure (whether direct or indirect) to ownership interest in a corporation. Historically, equities are more risky than fixed income or cash investments as they experience greater volatility risk, which is the risk that the value of your investment may fluctuate over time. However, they have had higher returns. Investments in small and medium company stocks can be more volatile over the short term than investments in large company stocks, however, they may offer greater potential for appreciation.

Non-U.S. equity and fixed income: Non-U.S. equity and fixed income represent exposure (whether direct or indirect) to ownership interests and debt, respectively, of foreign governments and corporations that can be sub-divided into those from countries that have developed markets or emerging markets. Further, non-U.S. companies not reporting with the SEC may be subject to accounting, auditing, and financial reporting standards and requirements that differ from companies reporting with the SEC and may have less publicly available information about them than companies reporting with the SEC.

International: Investors in securities of issuers located outside of the United States should be aware that even for securities denominated in U.S. dollars, changes in the exchange rate between the U.S. dollar and the issues "home" currency can have unexpected effects on the market value and liquidity of those securities. Those securities may also be affected by other risks (such as political =, economic or regulatory changes) that may not be readily known to a U.S investor.

Variable Annuities: A variable deferred annuity is a long-term financial product designed for retirement purposes. It is a contractual agreement in which payment(s) are made to an insurance company, which agrees to pay out an income or a lump sum amount at a later date. There are fees and charges associated with a variable annuity contract, which include, but are not limited to, operations charges, sales and surrender charges, administrative fees, and additional charges for optional benefits. Variable annuities are sold by prospectus and you should carefully consider important information on the sub-accounts' investment objectives, risk, charges and expenses.

Please read the prospectus and offering documents carefully before you invest. Your Financial Advisor can provide a copy of the prospectus. For current month-end returns:

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<htp://advisor.morningstar.com/familyinfo.asp <http://advisor.morningstar.com/familyinfo.asp> <http://advisor.morningstar.com/familyinfo.asp> <http://advisor.morningstar.com/familyinfo.asp> withdrawals
from an annuity contract are taxable as ordinary income, not as capital gains and, if made prior to age 59 and 1/2, may be subject to an additional 10% federal income tax penalty. Withdrawals may also be
subject to surrender charges. Withdrawals will reduce the death benefit, living benefits and cash surrender value. For tax purposes, withdrawals will come from any gain in the contract first. Please see the
prospectus for complete details. Amounts in the annuity's variable investment portfolios are subject to fluctuation in value and market risk, including loss of principal. Unregistered group variable annuities and
registered group variable annuities that are solely available for use in qualified plans are rated and ranked based on their position within the bell curve of the open end fund peer group. These ratings and ranks are calculated by using an overlay of the open end fund peer group break points and therefore do not contribute to the category
average or number of funds within the peer group. For variable annuity subaccounts, standardized return is total return based on its inception date within the separate account and is adjusted to reflect
recurring and non-recurring charges such as surrender fees, contract charges, maximum front-end load, maximum deferred load, maximum M&E risk charge, administration fees, and actual ongoing
fund-level expenses. The benchmark used for each individual subaccount performance is an index that has been assigned to the particular manager or fund.

Mutual Fund Performance Information: Mutual Funds are sold by prospectus and you should carefully consider important information on the fund's investment objectives, risk, charges and expenses. Please read the prospectus and offering documents carefully before you invest. Your UBS Institutional Consultant can provide a copy of the prospectus. For current month-end returns: <<htp://advisor.morningstar.com/familyinfo.asp> <htp://advisor.morningstar.com/familyinfo.asp> This analysis may incorporate mutual fund and exchange traded fund performance results. Analyticsshown are calculated based on the fund's Net Asset Value, which may reflect the reinvestment of dividends and capital gains, as well as the deduction of 12b-1 fees and fund internal expenses (e.g. fund management fees). The analytics do not reflect the deduction of the sales load, where applicable, the UBS Consulting fee(s), where applicable, or the impact of taxes. Had the sales load, fee or taxes been included, the results used in this analysis would have been reduced.

Wilshire Trust Universe Comparison Service Information: These reports may contain comparative peer performance data provided by Wilshire Associates Incorporated (Wilshire®), entitled "Quartile Ranking Comparison." Output will be presented as a universe organized by asset type, plan type, plan size or other basis. Wilshire®, the Wilshire Trust Universe Comparison Service® and TUCS® are service marks of Wilshire Associates Incorporated and have been licensed for use by UBS Financial Services Inc. All content of TUCS is ©2021 Wilshire Associates Incorporated, all rights reserved.

Ranking Methodology. Universe ranking assigns a whole number rank between 1 and 99 for a set of values. This is the distribution. Ranking is determined by comparing a value to the values in the set, and using the rank assigned to the value that is equal to or 'better' than the value being compared. A 'better' value is based on whether a higher value is better or a lower vale is better. A set of values can be ranked either high to low (as in rates of return, where a higher value is better than a lower value) or low to high (such as Beta)**Policy Index**: A point of reference for evaluating a portfolio's investment performance. A policy Index can be comprised of single or multiple benchmarks (weighted blend). Portfolios with multiple benchmarks will be depicted with a description of benchmarks and weights that comprise the policy. **The benchmarks that** constitute the policy index change over time as your portfolio changes. For historical policy index information, see the Benchmark Subset in this Report exhibit.

Gain/(Loss) Information: When data is available from UBS, estimated unrealized gains/losses are calculated for individual security lots. For assets transferred from another financial institution, gain/loss information will be reflected only for the period of time the assets have been held at UBS entities. For assets held at other financial institutions, information provided by you or that entity, if any, is reflected. Total realized gain/loss information may include calculations based upon non-UBS entities cost basis information. UBS Financial Services Inc. does not independently verify or guarantee the accuracy or validity of any information provided by sources other than UBS Financial Services Inc. When original cost information is unavailable, gain/loss amounts will represent current market value and total gains/losses may be inaccurate. Date information for when a particular security was acquired, when available, appears on these reports. When no acquisition date is provided for a security, these reports reflect "N/A" and omit this information. As a result, these figures may not be accurate and are provided for informational purposes only.

Interest and Dividend Income: When shown on this report, information does not reflect your account's tax status or reporting requirements. You should use only official IRS forms for tax reporting purposes. The classification of private investment distributions can only be determined by referring to the official year-end tax-reporting document provided by the issuer.

**Contributions and Withdrawals**: When shown on a report, information regarding contributions and withdrawals may represent the net value of all cash and securities contributions and withdrawals, and may include program fees (including wrap fees) and other fees added to or subtracted from your accounts from the first day to the last day of the period covered by these reports. Program fees may be separately identified or included in withdrawals except when paid via an invoice or through a separate account billing arrangement.

**Cash Flow**: Cash Flow analysis is based on the historical dividend, coupon and interest payments you have received as of the Record Date in connection with the securities listed and assumes that you will continue to hold the securities for the periods for which cash flows are projected. This may or may not include principal paybacks for the securities listed. These potential cash flows are subject to change due to a variety of reasons, including but not limited to, contractual provisions, changes in corporate policies, changes in the value of the underlying securities and interest rate fluctuations. The effect of a call on any security(s) and the consequential impact on its potential cash flows) is not reflected in this report. Payments that occur in the same month in which the report is generated -- but prior to the report run ("As of") date -- are not reflected in this report. In determining the potential cash flows, UBS relies on information obtained from third party services it believes to be reliable but does not independently verify or guarantee the accuracy or validity of any information provided by third parties. Cash flows for mortgage-backed, asset-backed, factored, and other pass-through securities are based on the assumptions that the current face amount, principal pay-down, interest payment and payment frequency remain constant.

Calculations may include principal payments, are intended to be an estimate of future projected interest cash flows and do not in any way guarantee accuracy.

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#### **Calculation Definitions**

Accrued Interest: In accounting, accrued interest refers to the amount of interest that has been incurred, as of a specific date, on a loan or other financial obligation but has not yet been paid out. Accrued interest can either be in the form of accrued interest revenue, for the lender, or accrued interest expense, for the borrower. The term accrued interest can also refer to the amount of bond interest that has accumulated since the last time a bond interest payment was made.

Alpha: Alpha measures the difference between an investment's actual performance, and its expected performance as indicated by the returns of a selected market index. A positive Alpha indicates the risk-adjusted performance is above that index. In calculating Alpha, Standard Deviation (total risk) is used as risk measure. Alpha is often used to judge the value added or subtracted by a manager. Annual Income is money (or some equivalent value) that an individual or business receives, usually in exchange for providing a good or service or through investing capital. Income is used to fund day-to-day expenditures. Investments, pensions, and Social Security are primary sources of income for retirees. For individuals, income is often received in the form of wages or salary. Business income can refer to a company's remaining revenues after paving all expenses and taxes. In this case, income is referred to as "earnings." Most forms of income are subject to taxation.

Appreciation/Depreciation: Appreciation or Depreciation is the change in market value minus net cash flows. The value indicates by how much the portfolio value has changed due to changes in asset values. Appreciation would be an increase, Depreciation would be a decrease.

Average Exposure: Average Exposure is generally, the average allocation to a segment or an asset. Calculated as the beginning market value plus the weighted net cash flows as a percentage of the total portfolio market value.

Beta: Beta is defined as a Manager's sensitivity to market movements and is used to evaluate market related, or systematic risk. Beta is a measure of the linear relationship, over time, of the Manager's returns and those of the Benchmark. Beta is computed by regressing the Manager's excess returns over the risk free rate (cash proxy) against the excess returns of the Benchmark over the risk free rate. An investment that is as equally volatile as the market will have a Beta of 1.0; an investment half as volatile as the market will have a Beta of 0.5; and so on. Thus, Betas higher than 1.0 indicate that the fund is more volatile than the market.

**Composite Benchmark:** The Composite Benchmark is a weighted average benchmark based on the allocation of funds within each of the portfolios in the composite and the risk index assigned to each portfolio. **Correlation (R):** The Correlation represents the degree to which investments move in tandem with one another and is a critical component of diversified portfolio construction. The Correlation varies between a minimum of -1 (move in opposite direction) and a maximum of 1 (completely correlated). Lower Correlations enhance diversification and lead to better risk-adjusted returns within diversified portfolios. An R of less than 0.3 is often considered low Correlation.

**Cost:** This is the Cost basis information. Cost basis is the original value of an asset for tax purposes, usually the purchase price, adjusted for stock splits, dividends, and return of capital distributions. This value is used to determine the capital gain, which is equal to the difference between the asset's cost basis and the current market value.

Coupon Rate: A coupon rate is the yield paid by a fixed-income security; a fixed-income security's coupon rate is the annual coupon payments paid by the issuer relative to the bond's face or par value. The coupon rate, or coupon payment, is the yield the bond paid on its issue date. This yield changes as the value of the bond changes, thus giving the bond's face or part value. The weighted average of the assets' coupon rates.

Current Yield: This measure looks at the current price of a bond instead of its face value and represents the return an investor would expect if he or she purchased the bond and held it for a year. This measure is not an accurate reflection of the actual return that an investor will receive in all cases because bond and stock prices are constantly changing due to market factors.

**Distribution of Excess Returns:** Distribution of Excess Returns displays an arrangement of statistical data that exhibits the frequency of occurrence of the investment's returns in excess of the selected Market Index. **Distribution of Assets:** Distribution of Assets displays monthly data related to net contributions, market values, rates of return, and Index Values.

**Down Market (Mkt) Capture Ratio:** Down Market Capture Ratio is a measure of an investment's performance in down markets relative to the market itself. A down market is one in which the market's return is less than zero. The lower the investment's Down Market Capture Ratio, the better the investment protected capital during a market decline. A negative Down Market Capture Ratio indicates that an investment's returns rose while the market declined.

Downside Capture Return: The downside capture return is the cumulative performance of the portfolio in all periods during which the risk benchmark posted a negative return.

**Downside Probability:** The downside probability is the ratio of the number of periods during which the portfolio posted a negative return to the total number of periods under study. If, for example, during a 12 month span, the portfolio realized 5 months of negative returns, the downside probability would be equal to 5/12 or 42 percent. The sum of the downside and upside probabilities must equal 1.0. The downside probability does not consider the extent to which the portfolio will fail to exceed the target index. It merely considers the likelihood that the target will not be exceeded. It is important to bear in mind this point when comparing the downside probabilities of more than one portfolio. It is not necessarily correct, for example, to deem portfolio A riskier than portfolio B simply because A has a higher downside probability.

**Downside Risk (Semi Standard Deviation, Semi Std Dev, or Downside Deviation):**Downside Risk only identifies volatility on the down side. Downside Risk measures the variability of returns below zero, whereas Standard Deviation attributes volatility in either direction to risk. The Downside Risk method calculates the deviations below zero for each observed return. Each time a return falls below zero, the sum is divided by the number of observations and the square root is taken. This result is then shown on an annualized basis.

Dynamic Index: A weighted average blended benchmark of the risk indices assigned to each asset class, based on the asset allocation of the portfolio for a given period. The benchmark index weighting adjusts with changes to the asset allocation. A Dynamic Index should not be used when measuring against the client's *Investment Policy Statement*.

Effective Duration: A duration calculation for bonds with embedded options. Effective duration takes into account that expected cash flows will fluctuate as interest rates change.

Excess: Denotes that a statistic is being measured relative to the Market Index selected. The data set analyzed consists of the periodic differences between the investment's measure and the selected Market Index's definition. Expense Ratio: Often referred to as the Net Expense Ratio, Morningstar pulls the net annual expense ratio from the fund's audited annual report. Annual-report expense ratios reflect the actual fees charged during a particular fiscal year. The annual report expense ratio for a fund of funds is the wrap or sponsor fee only. The expense ratio expresses the percentage of assets deducted each fiscal year for fund expenses, including 12b-1 fees, management fees, administrative fees, operating costs, and all other asset-based costs incurred by the fund. Portfolio transaction fees, or brokerage costs, as well as initial or deferred sales charges are not included in the expense ratio. The expense ratio, which is deducted from the fund's average net assets, is accrued on a daily basis. If the fund's assets are small, its expense ratio can be quite high because the fund must meet its expenses from a restricted asset base. Conversely, as the net assets of the fund grow, the expense percentage should ideally diminish as expenses are spread across the wider base. Funds may also opt to waive all or a portion of the expenses that make up their overall expense ratio.

Gross Dollar Weighted Return: Gross Dollar Weighted Return is the internal rate of return, excluding money manager fees.

Gross Expense Ratio: Represents the total gross expenses (net expenses with waivers added back in) divided by the fund's average net assets. If it is not equal to the net expense ratio, the gross expense ratio portrays the fund's expenses had the fund not waived a portion, or all, of its fees. Thus, to some degree, it is an indication of fee contracts. Some fee waivers have an expiration date; other waivers are in place indefinitely.

Gross Time Weighted Return: Gross Time Weighted Return is the Modified Dietz return, excluding money manager fees.

Index Value: Index Value is the unit value series based on the return stream. It can be used to calculate rates of return between any two dates in the report.

Information Ratio: The Information Ratio is a measure of value added by an investment manager. It is the ratio of (annualized) excess return above the selected Market Index to (annualized) Tracking Error.

Excess return is calculated by linking the difference of the manager's return for each period minus the selected Market Index return for each period, then annualizing the result.

Investment Class: Group of financial instruments which have similar financial characteristics and which tend to behave similarly in the marketplace.

Investment Style: Method and philosophy followed by a manager when selecting financial instruments.

Management Firm: Professional organization managing various assets in order to meet specified investment goals for the benefit of its clients.

Manager Capture Ratio: The Manager Capture Ratio is manager return divided by the selected Market Index return. It shows what portion of the market performance was captured by the manager under certain market conditions: up market, down market, or both.

Market Experience: Market Experience is the presumable market value of the portfolio if it and its cash flows had grown at the policy index rate of return. It lets the reader know if active management has aided or hurt the portfolio.

Maturity Date: The maturity date is the date on which the principal amount of a note, draft, acceptance bond or other debt instrument becomes due. On this date, which is generally printed on the certificate of the instrument in question, the principal investment is repaid to the investor, while the interest payments that were regularly paid out during the life of the bond, cease to roll in. The maturity date also refers to the termination date (due date) on which an installment loan must be paid back in full.

Net Cash Flow: For the total portfolio, net cash flow is aggregate contributions minus aggregate withdrawals. At the asset class level, net cash flow is aggregate purchases minus aggregate sales minus aggregate income. It is used in the numerator of the Modified Dietz return calculation. It is the same as "New Money" and "Flow".

Net Dollar Weighted Return: Net Dollar Weighted Returns is the internal rate of return, including money manager fees.

Net Time Weighted Return: Net Time Weighted Return is the Modified Dietz return, including money manager fees.

New Money: For the total portfolio, New Money is aggregate contributions minus aggregate withdrawals. At the asset class level, New Money is aggregate purchases minus aggregate sales minus aggregate income. It is used in the numerator of the Modified Dietz return calculation. It is the same as "Net Cash Flow" and "Flow".

**Par value:** Par value is the face value of a bond. The market price of a bond may be above or below par, depending on factors such as the level of interest rates and the bond's credit status. Par value for a bond is typically \$1,000 or \$100 because these are the usual denominations in which they are issued.

**Performance Attribution:** Attribution analysis is a sophisticated method for evaluating the performance of a portfolio or fund manager. Manager Contribution focuses on three factors: the manager's investment style, their specific asset selections, and the market timing of those selections. It attempts to provide a quantitative analysis of the aspects of a fund manager's investment selections and philosophy that lead to that fund's performance. Asset Allocation provides an analysis of the effects on relative performance (i.e., performance vs. an index) that are related to a portfolio's allocation between asset classes. Total Fund Attribution combines the Manager Contribution results with the impacts of Asset Allocation decisions.

Real rate of return is the annual percentage of profit earned on an investment, adjusted for inflation. Therefore, the real rate of return accurately indicates the actual purchasing power of a given amount of money over time. Adjusting the nominal return to compensate for inflation allows the investor to determine how much of a nominal return is real return. In addition to adjusting for inflation, investors also must consider the impact of other factors such as taxes and investing fees in order to calculate real returns on their money or to choose among various investing options.

Tracking error is the divergence between the price behavior of a position or a portfolio and the price behavior of a benchmark. This is often in the context of a hedge fund, mutual fund, or exchange-traded fund (ETF) that did not work as effectively as intended, creating an unexpected profit or loss. Tracking error is reported as a standard deviation percentage difference, which reports the difference between the return an investor receives and that of the benchmark they were attempting to imitate.

Treynor ratio, also known as the reward-to-volatility ratio, is a performance metric for determining how much excess return was generated for each unit of risk taken on by a portfolio. Excess return in this sense refers to the return earned above the return that could have been earned in a risk-free investment. Although there is no true risk-free investment, treasury bills are often used to represent the risk-free return in the Treynor ratio. Risk in the Treynor ratio refers to systematic risk as measured by a portfolio's beta. Beta measures the tendency of a portfolio's return to change in response to changes in return for the overall marketUpside market Capture ratio. The Upside Capture Ratio is the ratio of the Upside Capture Return -of a portfolio against a benchmark index- divided by the Market Benchmark Index's return (from zero or positive returns). Upside Capture Return, which is measured based a related benchmark index's returns, is the portfolio's compound return for returns in periods, in which the respective benchmark index's returns, is the portfolio's compound return for returns in periods, in which the respective benchmark index's return is above or equal to zero.

Yield to maturity (YTM) is the total return anticipated on a bond if the bond is held until it matures. Yield to maturity is considered a long-term bond yield but is expressed as an annual rate. In other words, it is the internal rate of return (IRR) of an investment in a bond if the investor holds the bond until maturity, with all payments made as scheduled and reinvested at the same rate. Policy Index: A point of reference for evaluating a portfolio's investment performance. A policy Index can be comprised of single or multiple benchmarks (weighted blend). Portfolios with multiple benchmarks will be depicted with a description of benchmarks and weights that comprise the policy.

Rate of Return, ROR, Return %, ROI: All Return terms refer to the Modified Dietz return.

**Relative Risk:** Relative risk is simply the ratio of the standard deviation of the portfolio to the standard deviation of the risk index. The statistic reveals how much of the variation of the risk index is "shared" by the portfolio. A relative risk of 1.0 indicates that the portfolio has the same level of return variability as the risk index. A relative risk of less than 1.0 indicates that the portfolio has shown a lower dispersion of returns than the index. A relative risk in excess of 1.0 indicates that the portfolio returns have been more dispersed than those of the index.

**Riskless Index:** The theoretical rate of return of an investment with zero risk. The risk-free rate represents the interest an investor would expect from an absolutely risk-free investment over a specified period of time. The 3 month T-Bill is the usual index used for riskless.

**R-Squared (R2):** The diversification measure R2 indicates the percentage of volatility in portfolio returns which can be "explained" by market volatility. This statistic indicates the degree to which the observed values of one variable, such as the returns of a managed portfolio, can be explained by, or are associated with the values of another variable, such as a Market Index. It is especially helpful in assessing how likely it is that Alpha and Beta are statistically significant. The R2 values generally range from 0.0 to 1.0. An investment with an R2 of 1.0 is perfectly correlated with the market whereas an investment with an R2 of 0.0 will behave independently of the market. An R2 of 0.95, for example, implies that 95% of the fluctuations in a portfolio are explained by fluctuations in the market.

**Sector Allocations:** The percentage a manager has allocated to specific economic sectors.

Sharpe Ratio: The Sharpe Ratio indicates the excess return per unit of total risk as measured by Standard Deviation. It is a ratio of the arithmetic average of excess returns over the risk free rate to the Standard Deviation. The Sharpe Ratio is a measure of the premium earned for the risk incurred by the portfolio.

Sortino Ratio: The Sortino Ratio is a measure of reward per unit of risk. With Sortino, the numerator (i.e., reward) is defined as the incremental compounded average return over the minimum acceptable return (MAR). The denominator (i.e., risk) is defined as the downside deviation of the returns below the MAR. Since the downside deviation is the standard deviation of those returns which fail to exceed the MAR, the result of the Sortino Ratio is a measure of the average reward per unit of loss. As with Sharpe and Treynor, the Sortino Ratio only has value when it is used as the basis of comparison between portfolios. The higher the Sortino Ratio, the better.

Standard Deviation: A measure of the extent to which observations in a series vary from the arithmetic mean of the series. The Standard Deviation of a series of asset returns is a measure of volatility or risk of the asset. Target Allocation: The Target Allocation is the allocation goal of the portfolio approaches and long- and short-term holding periods.

HFRI Relative Value: Equally weighted index of investment managers who maintain positions in which the investment thesis is predicated on realization of a valuation discrepancy in the relationship between multiple securities. Managers employ a variety of fundamental and quantitative techniques to establish investment theses, and security types range broadly across equity, fixed income, derivative or other security types. Unit Values: Unit Value links periodic rates of return, beginning with an initial value of 100. It can be used to calculate rates of return between any two dates in the report.

#### Index Definitions

JP Morgan Global Ex-U.S. Bond Index: Consists of regularly traded, fixed-rate domestic government debt instruments from 12 international bond markets. Countries included are Austria, Belgium, Canada, Denmark, France, Germany, Italy, Japan, the Netherlands, Spain, Sweden and the United Kingdom.

MSCI AC World Index ex USA: Consists of approximately 2,000 securities across 47 markets, with emerging markets representing approximately 18%. MSCI attempts to capture approximately 85% of the market capitalization in each country.

**MSCI EAFE Index (Europe, Australasia, Far East):** A free float-adjusted market capitalization index that is designed to measure the equity market performance of developed markets, excluding the U.S. and Canada. As of June 2007, the MSCI EAFE Index consisted of the following 21 developed market country indexes: Australia, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Hong Kong, Ireland, Italy, Japan, the Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland and the United Kingdom.

MSCI Emerging Markets Index: A free float-adjusted market capitalization index that is designed to measure equity market performance of emerging markets. As of November 2008, the MSCI Emerging Markets Index consisted of the following 24 emerging market country indexes: Argentina, Brazil, Chile, China, Colombia, Czech Republic, Egypt, Hungary, India, Indonesia, Israel, Korea, Malaysia, Mexico, Morocco, Pakistan, Peru, Philippines, Poland, Russia, South Africa, Taiwan, Thailand and Turkey.

**MSCI Europe Index:** A free float-adjusted market capitalization-weighted index that is designed to measure the equity market performance of the developed markets in Europe. As of June 2007, the MSCI Europe Index consisted of the following 16 developed market country indexes: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

MSCI Japan Index: A free float-adjusted market capitalization-weighted index that is designed to measure the equity market performance of Japan.

NAREIT Index: Benchmarks the performance of the REIT industry since its inception in 1972. It was designed to provide a comprehensive assessment of overall industry performance. Some REITs available from over-the-counter markets are not included due to the lack of real-time pricing.

NCREIF Property Index (NPI): A quarterly time series composite total rate of return measure of investment performance of a large pool of individual commercial real estate properties acquired in the private market for investment purposes only. All properties in the NPI have been acquired, at least in part, on behalf of tax-exempt institutional investors - the great majority being pension funds. As such, all properties are held in a fiduciary environment.

Russell 1000® Index: Measures the performance of the large-cap segment of the U.S. equity universe. It is a subset of the Russell 3000® Index and includes approximately 1000 of the largest securities based on a combination of their market cap and current index membership. The Russell 1000 represents approximately 92% of the U.S. market.

Russell 1000® Growth Index: Measures the performance of the large-cap growth segment of the U.S. equity universe. It includes those Russell 1000 companies with higher price-to-book ratios and higher forecasted growth values.

Russell 1000® Value Index: Measures the performance of the large-cap value segment of the U.S. equity universe. It includes those Russell 1000 companies with lower price-to-book ratios and lower expected growth values. Russell 2000® Growth Index: Measures the performance of the small-cap growth segment of the U.S. equity universe. It includes those Russell 2000 companies with higher price-to-book ratios and higher forecasted growth values.

Russell 2000® Value Index: Measures the performance of the small-cap value segment of the U.S. equity universe. It includes those Russell 2000 companies with lower price-to-book ratios and lower forecasted growth values.

Russell Mid-Cap® Growth Index: Measures the performance of the mid-cap growth segment of the U.S. equity universe. It includes those Russell mid-cap companies with higher price-to-book ratios and higher forecasted growth values.

Russell Mid-Cap® Value Index: Measures the performance of the mid-cap value segment of the U.S. equity universe. It includes those Russell mid-cap companies with lower price-to-book ratios and lower forecasted growth values.

S&P 500 Index: Covers 500 large cap industrial, utility, transportation, and financial companies of the US markets. The index represents about 75% of NYSE market capitalization and 30% of NYSE issues. It is a capitalization weighted index calculated on a total return basis with dividends reinvested.

TASS Index of CTAs: Is a dollar-weighted index based on historical managed futures performance of CTAs with established track records.

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Cobb County OPEB       Asset Class Summary														
<u>Style Analysis</u> As of October 5, 2023 Manager/Accounts	Account #:	% <u>Assets</u>	Large Cap <u>Growth</u>	Large Cap <u>Blend</u>	Large Cap <u>Value</u>	Mid Cap <u>Blend</u>	Small Cap <u>Growth</u>	Small Cap <u>Value</u>	<u>Global</u>	<u>International</u>	Fixed <u>Income</u>	<u>Cash</u>	1	Total <u>Portfolio</u>
TCW	XXXXX93	5.8%	10,089,377										\$	10,089,377
Westfield Capital Management	XXXXX91	6.2%	10,628,754										\$	10,628,754
Vanguard S&P 500 (VINIX)	XXXXX57	12.2%		21,005,917									\$	21,005,917
Eagle Capital	XXXXX00	11.9%			20,575,468								\$	20,575,468
Vanguard Mid Cap (VIMAX)	XXXXX57	6.6%				11,433,023							\$	11,433,023
Fuller & Thaler Behavioral SCG (FTXFX)	XXXXX57	2.8%					4,869,263						\$	4,869,263
Vaughan Nelson	XXXXX94	3.2%						5,540,394					\$	5,540,394
BlackRock Global Allocation (MALOX)	XXXXX57	3.1%							5,359,276				\$	5,359,276
First Eagle Global (SGIIX)	XXXXX57	3.5%							6,055,782				\$	6,055,782
Loomis Sayles Global Equity & Income(LSWWX)	XXXXX57	3.6%							6,143,400				\$	6,143,400
Vanguard Total Int'l Stock (VTSNX)	XXXXX57	5.4%								9,383,637			\$	9,383,637
Vanguard International Growth (VWILX)	XXXXX57	5.6%								9,604,552			\$	9,604,552
Tweedy Browne Global Value (TGBVX)	XXXXX57	4.5%								7,768,945			\$	7,768,945
Richmond	XXXXX92	10.2%									17,580,387		\$	17,580,387
BlackRock Strategic Income Opps (BSIIX)	XXXXX57	7.3%									12,633,766		\$	12,633,766
Delaware Diversified Income (DPFFX)	) XXXXX57	8.2%									14,127,232		\$	14,127,232
Total	l	100%	\$ 20,718,131	\$ 21,005,917	\$ 20,575,468	\$ 11,433,023	\$ 4,869,263	\$ 5,540,394	\$ 17,558,458	\$ 26,757,135	\$ 44,341,384	<u> </u>	\$	172,799,174
Current Allocation Target Allocation Difference in %			11.99% <u>11.00%</u> 0.99%	12.16% <u>11.00%</u> 1.16%	11.91% <u>11.00%</u> 0.91%	6.62% <u>6.00%</u> 0.62%	2.82% <u>3.00%</u> -0.18%	3.21% 3.00% 0.21%	10.16% <u>10.00%</u> 0.16%	15.48% <u>20.00%</u> -4.52%	25.66% <u>25.00%</u> 0.66%	0.00%		100% <u>100%</u>

Earle Dodd, Vandyke Price & Austin Dodd Senior Institutional Consultant Senior Vice President - Wealth Management (404)760-3000

Dollar values above are rounded to the nearest dollar.

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\*Rebalance value is a function of the current market value plus the newly-named Client Cash Request/Proposed Reallocation

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Past performance does not guarantee future results and current performance may be lower or higher than past performance data presented. Past performance for periods greater than one year are presented on an annualized basis. The investment return and principal value of an investment will fluctuate so that your investment, when redeemed, may be worth more or less than your original cost of investing.

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The investment return and principal value of an investment will fluctuate so that your investment, when redeemed, may be worth more or less than your original cost of investing.

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Sources: Custodial Statement; IPS; Client Request or Advisor Recommendation

Review code: IS1602740

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#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price

# **Total Portfolio - OPEB**

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

## Cobb OPEB September 30, 2023

## **Accounts Included in this Report**

UBS account statements represent the only official record of holdings, balances, transactions and security values of assets in your UBS Financial Services Inc. account and are not replaced, amended or superseded by any information presented in this report. As an accommodation to you, values of accounts that you hold at other financial institutions may be included as part of your UBS IC Consulting Services Agreement based on information, including pricing information, provided to us. This report does not include assets held in your UBS account(s) that are not a part of the Institutional Consulting program unless you have requested that those accounts be included in this report. UBS does not independently verify or guarantee the accuracy or validity of any information provided by sources other than UBS Financial Services Inc. Please see the 'Important Information' section at the end of this report for detailed pricing information.

Account Name	Account Number	Custodian Name
Richmond Capital Management	AXxxx92	UBS Financial Services
Multiple Funds	AXxxx57	UBS Financial Services
Eagle Capital Large Value	AXxxx00	UBS Financial Services
TCW Large Cap Growth	AXxxx93	UBS Financial Services
Westfield Capital Large Growth	AXxxx91	UBS Financial Services
Vaughan Nelson	AXxxx94	UBS Financial Services

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**Performance Analysis** 

# **Performance Analysis**

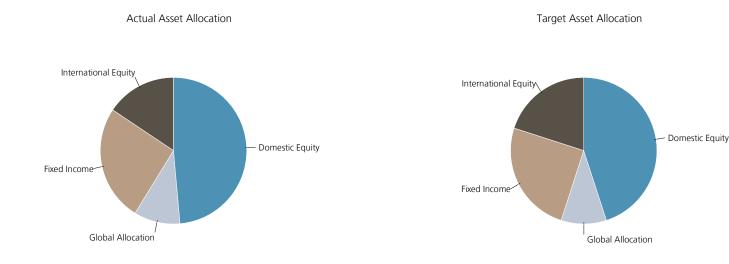
The primary index comparison for your portfolio and each of its asset classes is listed below.

#### CONSOLIDATED PORTFOLIO BENCHMARK

08/31/2008 - Present

- 45% Russell 3000
- 25% Bloomberg US Aggregate Bond
- 20% MSCI AC World X US Net
- 10% HFRX Global Hedge Fund Index

#### Actual vs Target Asset Allocation As of September 30, 2023



	Market Value Actual	Percent Actual	Market Value Target	Percent Target	Market Value Difference	Percent Difference
Fixed Income	44,824,446.6	25.6%	43,708,000.5	25.0%	1,116,446.1	0.6%
Domestic Equity	84,957,459.5	48.6%	78,674,400.9	45.0%	6,283,058.6	3.6%
International Equity	27,274,741.9	15.6%	34,966,400.4	20.0%	(7,691,658.5)	(4.4%)
Global Allocation	17,775,354.0	10.2%	17,483,200.2	10.0%	292,153.8	0.2%
Total Fund	\$174,832,002.0	100.0%	\$174,832,002.0	100.0%	\$0.0	0.0%

This report is provided for informational purposes only. The information shown was obtained from sources believed to be reliable, the accuracy of which cannot be guaranteed. Account statements provided by UBS or other financial institutions are the official record of your holdings, balances, transactions and security values and are not amended or superseded by any of the information presented in this report. Information is current as of the date shown. Past performance is no guarantee of future returns. See IMPORTANT INFORMATION at end of report for assumptions and limitations of the analysis in this report, risk considerations, valuation, fees and other details regarding this report.

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### Performance Summary - Gross of Fees Cobb OPEB As of September 30, 2023

Account	Inception Date	09/30/2023 Market Value	Latest OTR	%tile Ranking	YTD	%tile Ranking	1 Year	%tile Ranking	3 Year	%tile Ranking	5 Year	%tile Ranking	7 Year	%tile RankingInception
Composite	08/31/2008	\$174,832,002	-2.95%	Ranking	9.85%		17.29%	Nanking	4.83%	Ranking	6.24%		7.69%	7.22%
Policy Index	00/3/1/2000	\$171,052,002	-2.92%		6.56%		13.67%		4.15%		5.43%		6.79%	6.36%
Dynamic Index			-3.05%		6.24%		13.00%		4.00%		5.00%			
Fixed Income														
Richmond Capital Management	09/30/2017	\$17,931,008	-2.91%	18	-0.66%	23	1.29%	13	-5.11%	42	0.61%	8		0.38%
BB Gov/Cr Bond			-3.00%	25	-0.85%	35	0.93%	25	-5.32%	63	0.41%	17		0.11%
Blackrock Strategic Income I	09/30/2017	\$12,657,758	-0.38%	52	1.59%	63	3.25%	68	0.26%	46	2.13%	23		1.90%
BB Agg Bond			-3.23%	99	-1.21%	83	0.64%	82	-5.21%	99	0.10%	77		-0.12%
Delaware Diversified Income I	09/30/2017	\$14,235,681	-3.19%	64	-0.92%	59	2.00%	21	-4.58%	36	0.78%			0.37%
BB Agg Bond			-3.23%	67	-1.21%	71	0.64%	65	-5.21%	70	0.10%	56		-0.12%
Large Cap Value														
Eagle Capital Large Value	09/30/2017	\$20,822,499	0.75%	1	26.46%		37.02%	1	13.79%	35	10.13%			11.28%
Russell 1000 Value			-3.16%	75	1.79%	60	14.44%	64	11.05%	70	6.23%	77		6.76%
50%SP500/50%Rus1V			-3.21%	77	7.32%	13	18.02%	29	10.67%	74	8.12%	28		9.02%
Large Cap Blend														
Vanguard 500 Index	09/30/2017	\$21,123,957	-3.27%	47	13.05%		21.58%	25	10.00%	29	9.83%			11.13%
S&P 500 Index			-3.27%	47	13.07%	19	21.62%	24	10.15%	24	9.92%	9		11.21%
Large Cap Growth														
TCW Large Cap Growth	09/30/2017	\$10,108,644	-3.42%	58	24.36%		28.05%	25	3.45%		10.35%			13.17%
Russell 1000 Growth			-3.13%	46	24.98%		27.72%		7.97%	36	12.42%			14.62%
Westfield Capital Large Growth	09/30/2017	\$10,619,322	-2.28%	16	24.77%		28.51%	20	7.30%		11.69%			13.69%
Russell 1000 Growth			-3.13%	46	24.98%	21	27.72%	28	7.97%	36	12.42%	15		14.62%
Mid Cap Blend														
Vanguard Mid-Cap Index Fund Admiral	09/30/2017	\$11,636,967	-5.07%	78	3.30%		12.61%	63	7.26%	77	6.49%			7.62%
Russell Midcap			-4.68%	63	3.91%	45	13.45%	55	8.09%	65	6.38%	27		7.61%
Small Cap Value														
Vaughan Nelson	09/30/2017	\$5,661,810	-4.07%	77	10.51%		19.60%	21	18.99%	23	8.15%			8.26%
Russell 2000 Value			-2.96%	59	-0.53%	88	7.84%	94	13.32%	81	2.59%	95		3.69%
Small Cap Growth														
Fuller & Thaler Small Cap Growth	05/04/2023	\$4,984,261	-2.31%	1									_	5.07%
Russell 2000 Growth			-7.32%	67										0.37%

### Performance Summary - Gross of Fees Cobb OPEB As of September 30, 2023

	Inception	09/30/2023	Latest	%tile		%tile	1	%tile	3	%tile	5	%tile	7	%tile
Account	Date	Market Value	QTR	Ranking	YTD	Ranking	Year	Ranking	Year	Ranking	Year	Ranking	Year	RankingInception
International Equity														
Vanguard Total International Stock Fund	09/30/2017	\$9,624,007	-4.01%	23	5.04%	61	20.50%	76	3.89%	55	2.77%	51		2.58%
MSCI AC WId X US Net			-3.77%	17	5.34%	55	20.39%	77	3.74%	57	2.58%	64		2.44%
Vanguard International Growth Fund	02/07/2019	\$9,744,673	-9.17%	73	3.09%	65	16.10%	75	-4.69%	83				6.16%
MSCI AC WId x US Grw			-7.26%	34	2.90%	69	16.22%	75	-1.56%	56				3.80%
Tweedy Browne Global Value Fund	04/11/2019	\$7,906,062	-1.70%	32	6.40%	80	17.11%	99	9.19%	41				3.20%
MSCI AC WId x US Val			0.07%	6	8.87%	41	26.09%	70	10.30%	24				3.57%
Global Allocation														
Loomis Sayles Global Equity	09/30/2017	\$6,203,294	-3.03%	36	9.13%	1	19.00%	1	1.27%	75	4.98%	6		5.71%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76		1.65%
First Eagle Global Funds Class I	09/30/2017	\$6,152,065	-3.74%	59	5.25%	15	19.33%	1	7.24%	6	5.86%	1		5.45%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76		1.65%
Blackrock Global Allocation Fund	09/30/2017	\$5,419,995	-4.18%	83	2.45%	49	8.86%	77	1.00%	81	3.94%	25		3.69%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76		1.65%
Composite Global Allocation	09/30/2017	\$17,775,354	-3.63%	51	5.68%	8	15.82%	6	3.10%	50	4.96%	7		5.01%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76		1.65%

# Performance Summary - Net of Fees Cobb OPEB As of September 30, 2023

Policy Index       -2.92%       6.56%       13.67%       4.15%       5.43%       6.79%       6.38%         Dynamic Index       -3.05%       6.24%       13.00%       4.00%       5.00%       6.79%       6.38%         Fixed Income       -3.05%       6.24%       13.00%       4.00%       5.00%       6.79%       6.38%         Richmond Capital Management       09/30/2017       \$17,931,008       -2.96%       20       -0.80%       32       1.10%       18       -5.28%       59       0.42%       16       0.20%         BB Gov/Cr Bond	Seption           7.13%           6.36%           0.20%           0.11%           1.90%           0.12%           0.37%           0.12%
Policy Index       -2.92%       6.56%       13.67%       4.15%       5.43%       6.79%       6.36%         Dynamic Index       -3.05%       6.24%       13.00%       4.00%       5.00%       6.79%       6.36%         Fixed Income       -3.05%       6.24%       13.00%       4.00%       5.00%       6.79%       6.36%         BB Gov/Cr Bond       -3.05%       20       -0.80%       32       1.10%       18       -5.28%       59       0.42%       16       0.20%         Blackrock Strategic Income I       09/30/2017       \$17,931,008       -2.96%       20       -0.80%       32       1.10%       18       -5.28%       59       0.42%       16       0.20%         Blackrock Strategic Income I       09/30/2017       \$12,657,758       -0.38%       52       1.59%       63       3.25%       68       0.26%       46       2.13%       23       1.90%         BB Agg Bond       -3.23%       99       -1.21%       83       0.64%       82       -5.21%       99       0.10%       77       -0.12%	6.36% 0.20% 0.11% 1.90% 0.12% 0.37%
Dynamic Index       -3.05%       6.24%       13.00%       4.00%       5.00%         Fixed Income       -3.05%       6.24%       13.00%       4.00%       5.00%         Richmond Capital Management       09/30/2017       \$17,931,008       -2.96%       20       -0.80%       32       1.10%       18       -5.28%       59       0.42%       16       0.20         BB Gov/Cr Bond	0.20% 0.11% 1.90% 0.12% 0.37%
Fixed Income         Richmond Capital Management       09/30/2017       \$17,931,008       -2.96%       20       -0.80%       32       1.10%       18       -5.28%       59       0.42%       16       0.20         BB Gov/Cr Bond       -3.00%       25       -0.85%       35       0.93%       25       -5.32%       63       0.41%       17       0.1         Blackrock Strategic Income I       09/30/2017       \$12,657,758       -0.38%       52       1.59%       63       3.25%       68       0.26%       46       2.13%       23       1.90         BB Agg Bond       -3.23%       99       -1.21%       83       0.64%       82       -5.21%       99       0.10%       77       -0.12	0.11% 1.90% 0.12% 0.37%
Richmond Capital Management       09/30/2017       \$17,931,008       -2.96%       20       -0.80%       32       1.10%       18       -5.28%       59       0.42%       16       0.20         BB Gov/Cr Bond       -3.00%       25       -0.85%       35       0.93%       25       -5.32%       63       0.41%       17       0.1         Blackrock Strategic Income I       09/30/2017       \$12,657,758       -0.38%       52       1.59%       63       3.25%       68       0.26%       46       2.13%       23       1.90%         BB Agg Bond       -3.23%       99       -1.21%       83       0.64%       82       -5.21%       99       0.10%       77       -0.12	0.11% 1.90% 0.12% 0.37%
BB Gov/Cr Bond       -3.00%       25       -0.85%       35       0.93%       25       -5.32%       63       0.41%       17       0.1         Blackrock Strategic Income I       09/30/2017       \$12,657,758       -0.38%       52       1.59%       63       3.25%       68       0.26%       46       2.13%       23       1.90         BB Agg Bond       -3.23%       99       -1.21%       83       0.64%       82       -5.21%       99       0.10%       77       -0.12	0.11% 1.90% 0.12% 0.37%
Blackrock Strategic Income I         09/30/2017         \$12,657,758         -0.38%         52         1.59%         63         3.25%         68         0.26%         46         2.13%         23         1.90           BB Agg Bond         -3.23%         99         -1.21%         83         0.64%         82         -5.21%         99         0.10%         77         -0.12	1.90% <i>0.12%</i> 0.37%
BB Agg Bond -3.23% 99 -1.21% 83 0.64% 82 -5.21% 99 0.10% 77 -0.12	<i>0.12%</i> 0.37%
	0.37%
	0.1270
Large Cap Value	
	0.45%
5 1 5	6.76%
	9.02%
Large Cap Blend	J.02 /0
	1.13%
	1.21%
Large Cap Growth	
	2.60%
	4.62%
	3.10%
	4.62%
Mid Cap Blend	
	7.62%
	7.61%
Small Cap Value	
	7.25%
Russell 2000 Value -2.96% 59 -0.53% 88 7.84% 94 13.32% 81 2.59% 95 3.69	3.69%
Small Cap Growth	
Fuller & Thaler Small Cap Growth 05/04/2023 \$4,984,261 -2.31% 1 5.07	5.07%
	0.37%

# Performance Summary - Net of Fees Cobb OPEB As of September 30, 2023

	Inception	09/30/2023	Latest	%tile		%tile	1	%tile	3	%tile	5	%tile	7	%tile
Account	Date	Market Value	QTR	Ranking	YTD	Ranking	Year	Ranking	Year	Ranking	Year	Ranking	Year	RankingInception
International Equity														
Vanguard Total International Stock Fund	09/30/2017	\$9,624,007	-4.01%	23	5.04%	61	20.50%	76	3.89%	55	2.77%	51		2.58%
MSCI AC WId X US Net			-3.77%	17	5.34%	55	20.39%	77	3.74%	57	2.58%	64		2.44%
Vanguard International Growth Fund	02/07/2019	\$9,744,673	-9.17%	73	3.09%	65	16.10%	75	-4.69%	83				6.16%
MSCI AC WId x US Grw			-7.26%	34	2.90%	69	16.22%	75	-1.56%	56				3.80%
Tweedy Browne Global Value Fund	04/11/2019	\$7,906,062	-1.70%	32	6.40%	80	17.11%	99	9.19%	41				3.20%
MSCI AC Wld x US Val			0.07%	6	8.87%	41	26.09%	70	10.30%	24				3.57%
Global Allocation														
Loomis Sayles Global Equity	09/30/2017	\$6,203,294	-3.03%	36	9.13%	1	19.00%	1	1.27%	75	4.98%	6		5.71%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76		1.65%
First Eagle Global Funds Class I	09/30/2017	\$6,152,065	-3.74%	59	5.25%	15	19.33%	1	7.24%	6	5.86%	1		5.45%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76		1.65%
Blackrock Global Allocation Fund	09/30/2017	\$5,419,995	-4.18%	83	2.45%	49	8.86%	77	1.00%	81	3.94%	25		3.69%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76		1.65%
Composite Global Allocation	09/30/2017	\$17,775,354	-3.63%	51	5.68%	8	15.82%	6	3.10%	50	4.96%	7		5.01%
HFRX Global Hedge			0.75%	1	1.39%	67	1.55%	99	1.83%	66	1.94%	76		1.65%

# **Cobb OPEB**

# Period Ending September 30, 2023

Account Values							
	Latest Quarter	Fiscal YTD	Year to Date	One Year	Three Years	Five Years	Since Inception
Beginning Mkt Value	\$179,280,286.85	\$158,763,411.35	\$158,763,411.35	\$148,863,235.17	\$155,221,920.77	\$124,919,110.78	\$12,000,000.00
Net Contributions	\$945,342.67	\$869,722.07	\$869,722.07	\$835,163.62	\$459,390.02	\$8,329,396.68	\$63,795,603.98
Investment Earnings	(\$5,393,627.48)	\$15,198,868.62	\$15,198,868.62	\$25,133,603.25	\$19,150,691.25	\$41,583,494.58	\$99,036,398.06
Ending Mkt Value	\$174,832,002.04	\$174,832,002.04	\$174,832,002.04	\$174,832,002.04	\$174,832,002.04	\$174,832,002.04	\$174,832,002.04

Returns												Since
	Latest	t Quarter	Fiscal YTD	Calendar YTD	One Year	Three Y	lears l	Five Years	Ten Years	Fif	teen Years	Inception
Account	-2	.99%	9.67%	9.67%	17.05%	4.60	%	6.02%	7.02%			7.13%
Policy Index	-2	.92%	6.56%	6.56%	13.67%	4.15	%	5.43%	6.54%			6.36%
Difference	-0	.07%	3.12%	3.12%	3.39%	0.45	%	0.59%	0.48%			0.77%
Calendar Year F	Returns											
	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Account	9.67%	-18.60%	14.41%	19.12%	22.58%	-6.37%	18.11%	7.35%	0.18%	5.43%	17.61%	12.67%
Policy Index	6.56%	-14.99%	12.79%	15.57%	21.17%	-5.62%	16.17%	7.80%	-0.83%	6.32%	17.59%	12.33%
Difference	3.12%	-3.61%	1.63%	3.56%	1.41%	-0.75%	1.94%	-0.44%	1.01%	-0.89%	0.01%	0.35%

Policy Index: 45% Russell 3000, 25% Bloomberg US Aggregate Bond, 20% MSCI AC World X US Net, 10% HFRX Global Hedge Fund Index

	Quarter To Date	Year To Date
Net ROR:		
Inclusive of UBS Investment Advisory Fees and Other Fees Paid	-3.01%	9.60%
Net ROR:		
Inclusive of Other Fees Paid Only	-2.99%	9.67%
Gross ROR:		
Excluding all Fees Paid	-2.95%	9.85%

The calculations above are effective as of 1/1/2021. This Fees and Returns Summary is included in UBS Institutional Consulting ("IC") quarterly performance reports starting with first quarter reporting in 2021 and it provides detailed fee information for your review. Data from prior to that time is not included in this new exhibit but is available upon request. If you hold your assets away from UBS, "Other Fees" include all fees your custodian provides to us, except your UBS Investment Advisory Fee, and will typically include investment manager fee and may include, custodian, administrative, trading and execution fees. We can only include fees in this analysis when provided by your custodian, which we have not verified, and are not responsible for the accuracy or completeness of this information. For additional information about what fees are included within "Other Fees" please contact your custodian. If you hold your assets at UBS, "Other Fees" include investment manager fees only, as custody, administrative, trading and execution fees are included in your UBS Investment Advisory Fee. If you have any questions about how fees are depicted throughout the remainder of this report, please discuss with your UBS Consultant.

	Quarter	YTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	Inception	Incept Date	Current Asset
Gross Time Weighted Return	-2.95	9.85	17.29	4.83	6.24	7.69	7.15	7.22	08/31/2008	\$174,832,002
Universe Median										
Policy Index	-2.92	6.56	13.67	4.15	5.43	6.79	6.54	6.36		
%-tile										
(45% Russell 3000, 25% Bloomberg US Aggregate Bond	, 20% MSCI AC World	X US Net, 10% H	FRX Global Hedge Fu	und Index, establishe	d 8/31/2008)					
Richmond Capital Management - (To	otal Portfolio)									
Gross Time Weighted Return	-2.91	-0.66	1.29	-5.11	0.61			0.38	09/30/2017	\$17,931,008
Universe Median	-3.14	-1.07	0.56	-5.19	0.00			-0.22		
BB Gov/Cr Bond	-3.00	-0.85	0.93	-5.32	0.41			0.11		
%-tile (100.00% BB Gov/Cr Bond; established 9/30/2017)	18	23	13	42	8			7		
	1 <b>D</b> (C P )									
Blackrock Strategic Income I - (Tota		1.50	2.25	0.00	2.12			1.00	00/20/2017	¢10 (57 75)
Gross Time Weighted Return	-0.38	1.59	3.25	0.26	2.13			1.90	09/30/2017	\$12,657,758
Universe Median	-0.34	2.55	4.58	0.15	1.43			1.31		
Bloomberg US Agg	-3.23	-1.21	0.64	-5.21	0.10			-0.12		
%-tile (100.00% Bloomberg US Agg; established 9/30/2017)	52	63	68	46	23			24		
Delaware Diversified Income I - (Tot	al Portfolio)									
Gross Time Weighted Return	-3.19	-0.92	2.00	-4.58	0.78			0.37	09/30/2017	\$14,235,681
Universe Median	-3.03	-0.71	1.14	-4.81	0.20			-0.04		, ,
Bloomberg US Agg	-3.23	-1.21	0.64	-5.21	0.10			-0.12		
%-tile	64	59	21	36	13			21		
(100 00% Bloomborg US Agg: established 0/30/2017)	-				-					

(100.00% Bloomberg US Agg; established 9/30/2017)

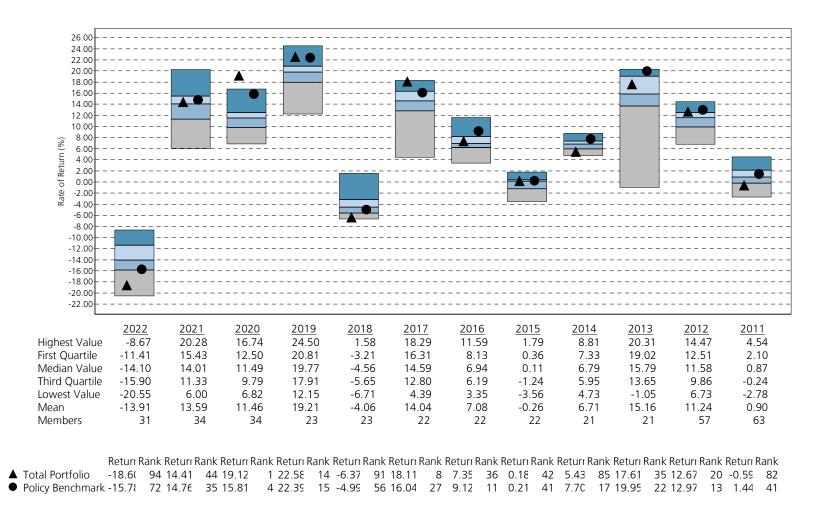
	Ouarter	YTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	Inception	Incept Date	Current Assets
Eagle Capital Large Value - (Total Po	· ·					,		F		
Gross Time Weighted Return	0.75	26.46	37.02	13.79	10.13			11.28	09/30/2017	\$20,822,499
Universe Median	-2.32	2.96	16.40	12.24	7.32			8.02		. , ,
Russell 1000 Value	-3.16	1.79	14.44	11.05	6.23			6.76		
%-tile	1	1	1	35	2			1		
(100.00% Russell 1000 Value; established 9/30/2017)										
Vanguard 500 Index - (Total Portfolio	D)									
Gross Time Weighted Return	-3.27	13.05	21.58	10.00	9.83			11.13	09/30/2017	\$21,123,957
Universe Median	-3.28	11.35	20.34	9.32	8.73			9.94		. , ,
S&P 500 Index	-3.27	13.07	21.62	10.15	9.92			11.21		
%-tile	47	20	25	29	13			10		
(100.00% S&P 500 Index; established 9/30/2017)										
TCW Large Cap Growth - (Total Por	·tfolio)									
Gross Time Weighted Return	-3.42	24.36	28.05	3.45	10.35			13.17	09/30/2017	\$10,108,644
Universe Median	-3.21	19.35	25.25	7.27	10.55			13.05		
Russell 1000 Growth	-3.13	24.98	27.72	7.97	12.42			14.62		
%-tile	58	30	25	79	56			47		
(100.00% Russell 1000 Growth; established 9/30/2017)										
Westfield Capital Large Growth - (To	otal Portfolio)									
Gross Time Weighted Return	-2.28	24.77	28.51	7.30	11.69			13.69	09/30/2017	\$10,619,322
Universe Median	-3.21	19.35	25.25	7.27	10.55			13.05		
Russell 1000 Growth	-3.13	24.98	27.72	7.97	12.42			14.62		
%-tile	16	24	20	47	29			35		
(100.00% Russell 1000 Growth; established 9/30/2017)										

	Quarter	YTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	Inception	Incept Date	Current Assets
Vanguard Mid-Cap Index Fund Admi	ral - (Total P	ortfolio)		-					<b>-</b>	
Gross Time Weighted Return	-5.07	3.30	12.61	7.26	6.49			7.62	09/30/2017	\$11,636,967
Universe Median	-4.33	3.67	13.95	9.55	5.56			6.72		. , ,
Russell Midcap	-4.68	3.91	13.45	8.09	6.38			7.61		
%-tile	78	62	63	77	23			25		
(100.00% Russell Midcap; established 9/30/2017)										
Vaughan Nelson - (Total Portfolio)										
Gross Time Weighted Return	-4.07	10.51	19.60	18.99	8.15			8.26	09/30/2017	\$5,661,810
Universe Median	-2.16	4.05	15.52	16.08	5.24			5.98		
Russell 2000 Value	-2.96	-0.53	7.84	13.32	2.59			3.69		
%-tile	77	4	21	23	8			13		
(100.00% Russell 2000 Value; established 9/30/2017)										
Vanguard Total International Stock F	und - (Total ]	Portfolio)								
Gross Time Weighted Return	-4.01	5.04	20.50	3.89	2.77			2.58	09/30/2017	\$9,624,007
Universe Median	-4.77	5.69	23.45	4.31	2.80			2.57		
MSCI AC Wld X US Net	-3.77	5.34	20.39	3.74	2.58			2.44		
%-tile	23	61	76	55	51			48		
(100.00% MSCI AC Wid X US Net; established 9/30/2017)										
Vanguard International Growth Fund	- (Total Port	tfolio)								
Gross Time Weighted Return	-9.17	3.09	16.10	-4.69				6.16	02/07/2019	\$9,744,673
Universe Median	-7.84	4.05	18.44	-0.92				4.14		
MSCI AC Wld x US Grw	-7.26	2.90	16.22	-1.56				3.80		
%-tile	73	65	75	83				11		
(100.00% MSCI AC Wld x US Grw; established 2/07/2019)										

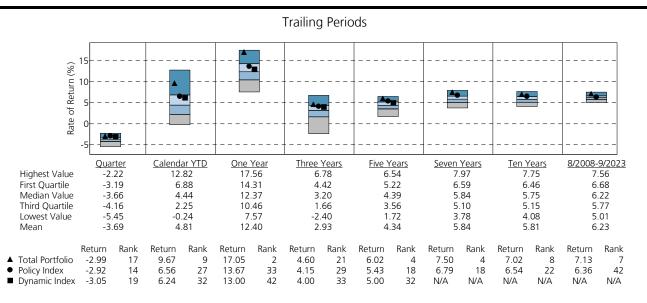
	Quarter	YTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	Inception	Incept Date	Current Assets
Loomis Sayles Global Equity - (Total				-				<b>i</b>	I	
Gross Time Weighted Return	-3.03	9.13	19.00	1.27	4.98			5.71	09/30/2017	\$6,203,294
Universe Median	-3.59	2.35	11.21	3.16	2.93			3.02		
HFRX Global Hedge	0.75	1.39	1.55	1.83	1.94			1.65		
%-tile	36	1	1	75	6			1		
(100.00% HFRX Global Hedge; established 9/30/2017)										
First Eagle Global Funds Class I - (To	otal Portfolio)									
Gross Time Weighted Return	-3.74	5.25	19.33	7.24	5.86			5.45	09/30/2017	\$6,152,065
Universe Median	-3.59	2.35	11.21	3.16	2.93			3.02		
HFRX Global Hedge	0.75	1.39	1.55	1.83	1.94			1.65		
%-tile (100.00% HFRX Global Hedge; established 9/30/2017)	59	15	1	6	1			1		
<b>Blackrock Global Allocation Fund - (</b> Gross Time Weighted Return Universe Median	-4.18 -3.59	2.45 2.35	8.86 11.21	1.00 3.16	3.94 2.93			3.69 3.02	09/30/2017	\$5,419,995
HFRX Global Hedge	0.75	1.39	1.55	1.83	1.94			1.65		
%-tile (100.00% HFRX Global Hedge; established 9/30/2017)	83	49	77	81	25			24		
Tweedy Browne Global Value Fund -	(Total Portfol	io)								
Gross Time Weighted Return	-1.70	6.40	17.11	9.19				3.20	04/11/2019	\$7,906,062
Universe Median	-2.34	8.33	28.12	8.43				3.86		
MSCI AC Wld x US Val	0.07	8.87	26.09	10.30				3.57		
%-tile (100.00% MSCI AC Wld x US Val; established 4/11/2019)	32	80	99	41				68		

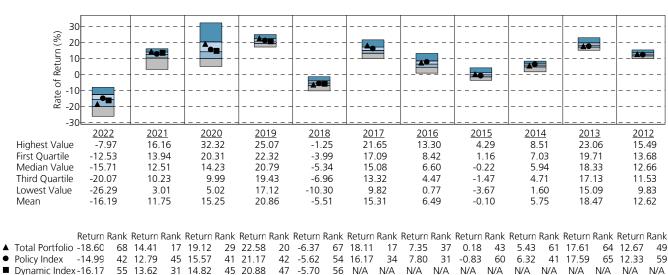
	Quarter	YTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr	Inception	Incept Date	Current Assets
Fuller & Thaler Small Cap Growth	n - (Total Portfolio	)								
Gross Time Weighted Return	-2.31							5.07	05/04/2023	\$4,984,261
Universe Median	-6.56							1.16		
Russell 2000 Growth	-7.32							0.37		
%-tile	1							7		
(100.00% Russell 2000 Growth; established 5/04/2023)										

Consolidated Portfolio vs Master Trusts - Public : Plans < \$1 Billion Managers December 31, 2003 Through December 31, 2022



#### Consolidated Portfolio Peer Universe Comparison versus 50% Equity, 35% Fixed, 15% International Managers





#### Annual Periods

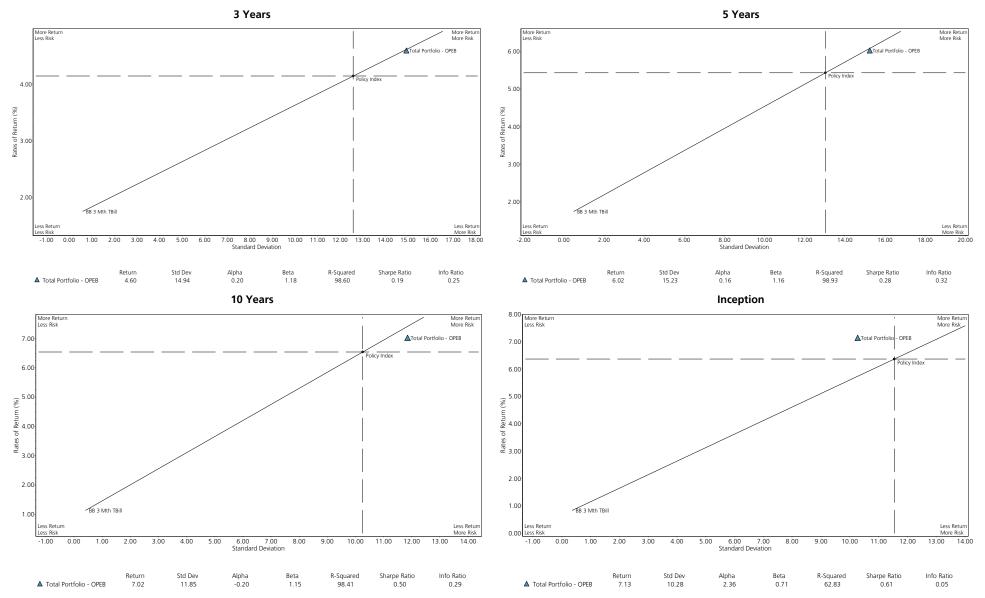
## Performance Profile August 31, 2008 Through September 30, 2023

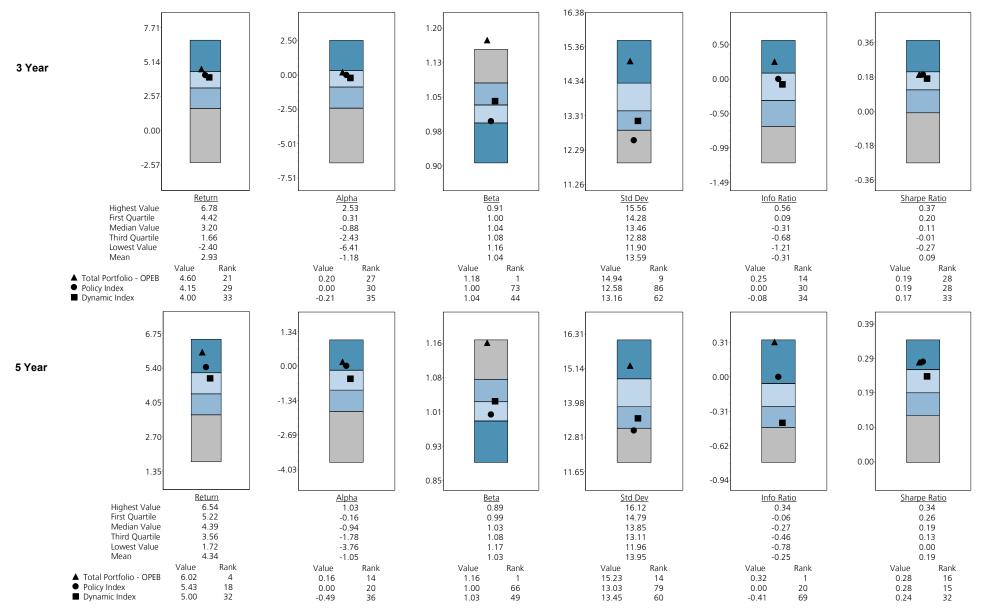
	Ended	Return	Total # of Periods:	181
Best Quarter	6/2020	17.25	# of Positive Periods:	118
Worst Quarter	3/2020	-15.17	# of Negative Periods:	63
Best 4 Quarters	9/2021	23.03		
Worst 4 Quarters	9/2022	-20.52		

			Year						
	Latest	Latest	То	One	Two	Three	Five	Ten	Since
	Month	Quarter	Date	Year	Years	Years	Years	Years	Inception
Consolidated Portfolio	-3.80	-2.99	9.67	17.05	-3.55	4.60	6.02	7.02	7.13
Policy Index	-3.42	-2.92	6.56	13.67	-2.69	4.15	5.43	6.54	6.36
Excess	-0.38	-0.07	3.12	3.39	-0.86	0.45	0.59	0.48	0.77
Riskless Index	0.44	1.33	3.72	4.65	2.61	1.76	1.76	1.14	0.84
Real ROR	-4.00	-3.78	5.84	12.99	-9.01	-1.07	1.93	4.17	4.79
CPI	0.20	0.80	3.66	3.66	5.89	5.67	3.98	2.72	2.24

		Std	Sharpe				Relative	Track	Treynor	Info
Period	Return	Dev	Ratio	Alpha	Beta	<b>R-Squared</b>	Risk	Error	Ratio	Ratio
One Year	17.05	13.16	0.94	1.63	1.18	98.67	1.19	2.50	10.54	1.29
Two Years	-3.55	15.81	-0.39	0.32	1.19	98.59	1.20	3.09	-5.19	-0.18
Three Years	4.60	14.73	0.19	0.20	1.18	98.60	1.19	2.81	2.42	0.25
Five Years	6.02	15.11	0.28	0.16	1.16	98.93	1.17	2.62	3.67	0.32
Ten Years	7.02	11.80	0.50	-0.20	1.15	98.41	1.16	2.11	5.13	0.29
Since Inception	7.13	10.25	0.61	2.36	0.71	62.83	0.89	7.14	8.92	0.05

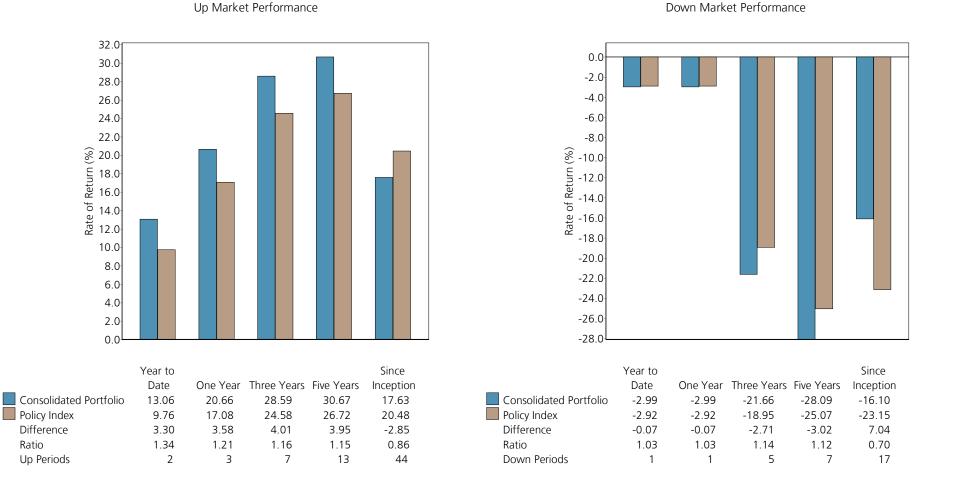
# Risk vs Reward Analysis August 31, 2008 Through September 30, 2023





# Consolidated Portfolio vs 50% Equity, 35% Fixed, 15% International Managers September 30, 2020 Through September 30, 2023

## Performance in Rising and Declining Markets August 31, 2008 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **Richmond Capital Management**

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

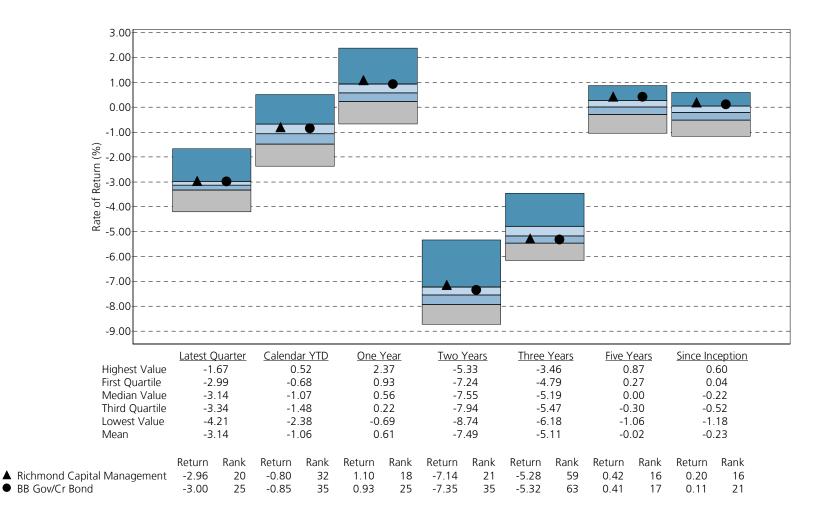
# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

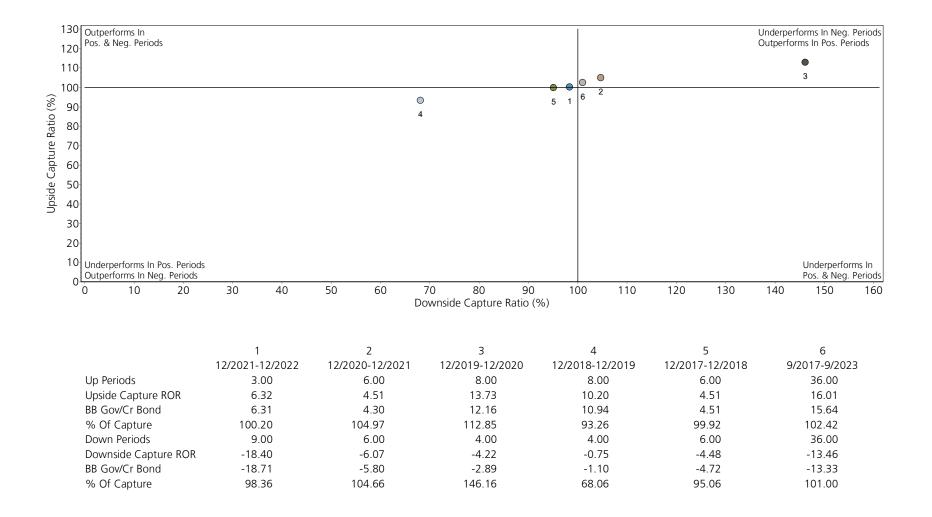
# TOTAL FUND BENCHMARK

9/30/2017 - Present 100% Bloomberg Barclays Government/Credit Bond

#### TOTAL FUND versus Intermediate Core Bond Managers September 30, 2017 Through September 30, 2023









#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **Blackrock Strategic Income I**

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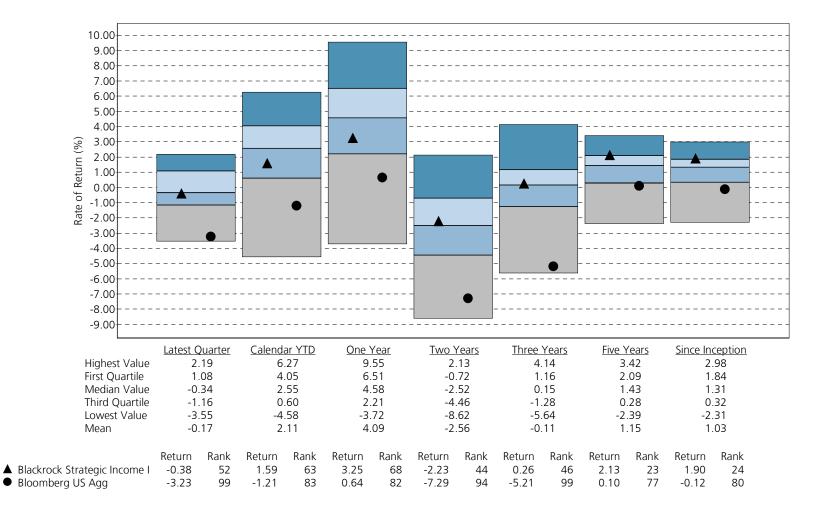
# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

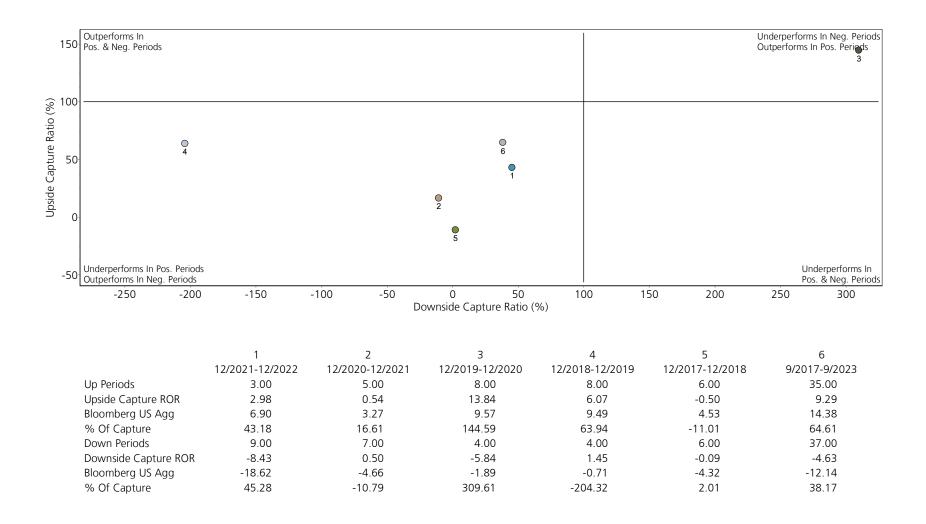
# TOTAL FUND BENCHMARK

9/30/2017 - Present 100% Bloomberg US Aggregate Bond

TOTAL FUND versus Nontraditional Bond Managers September 30, 2017 Through September 30, 2023



# Capture Ratio September 30, 2017 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **Delaware Diversified Income I**

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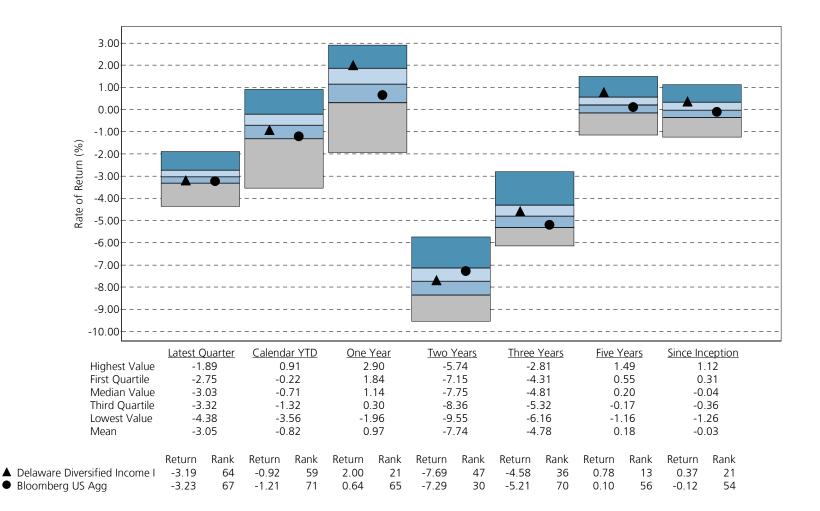
# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

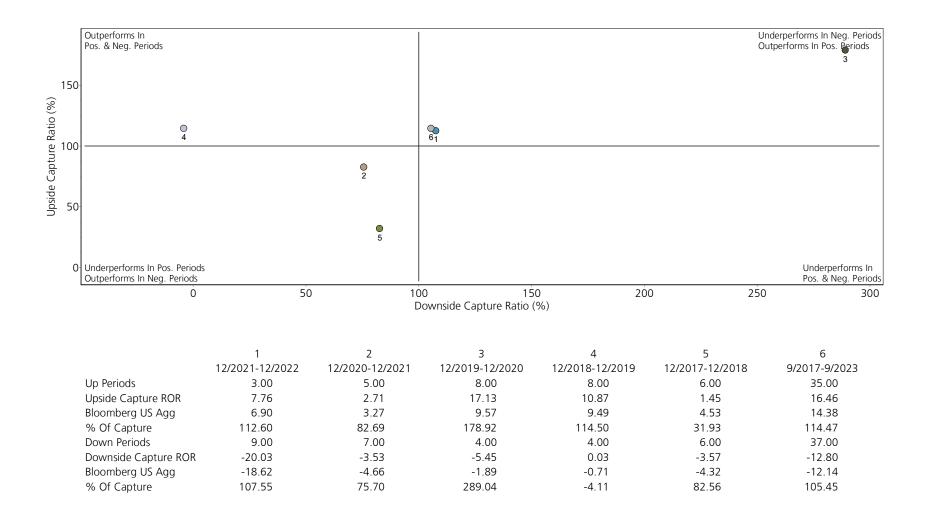
# **TOTAL FUND BENCHMARK**

9/30/2017 - Present 100% Bloomberg US Aggregate Bond

TOTAL FUND versus Intermediate Core Plus Bond Managers September 30, 2017 Through September 30, 2023



# Capture Ratio September 30, 2017 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Eagle Capital Large Value

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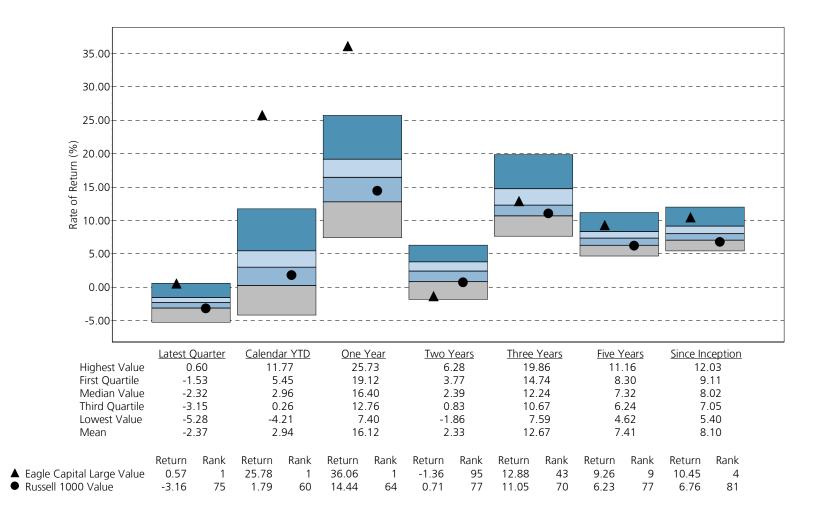
# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

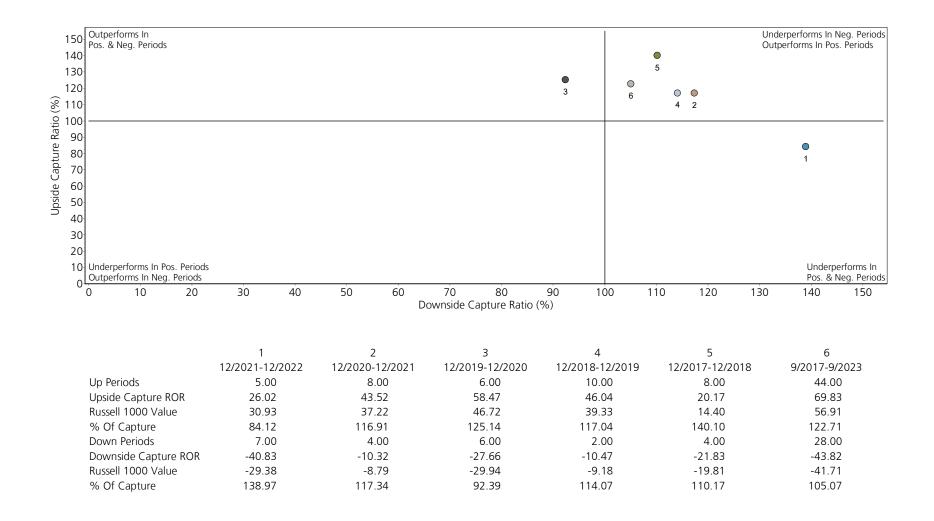
# **TOTAL FUND BENCHMARK**

9/30/2017 - Present 100% Russell 1000 Value

TOTAL FUND versus Large Cap Value Managers September 30, 2017 Through September 30, 2023



## Capture Ratio September 30, 2017 Through September 30, 2023





#### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Vanguard 500 Index

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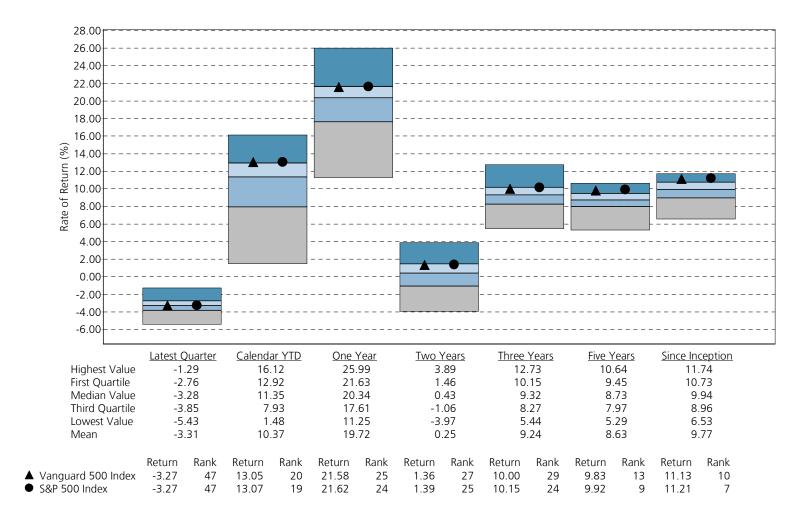
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# **Performance Analysis**

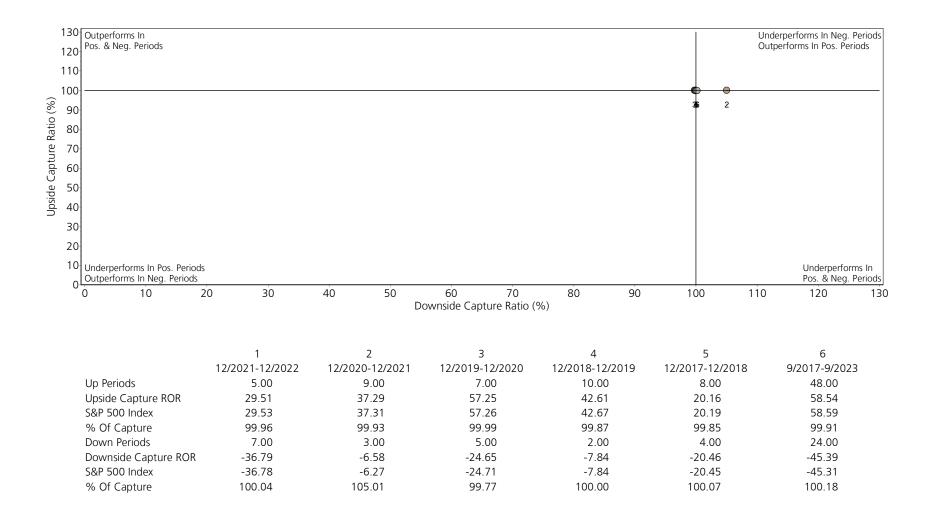
The primary index comparison for your portfolio and each of its asset classes is listed below.

## TOTAL FUND BENCHMARK

9/30/2017 - Present 100% S&P 500 Index



## Capture Ratio September 30, 2017 Through September 30, 2023





Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **TCW Large Cap Growth**

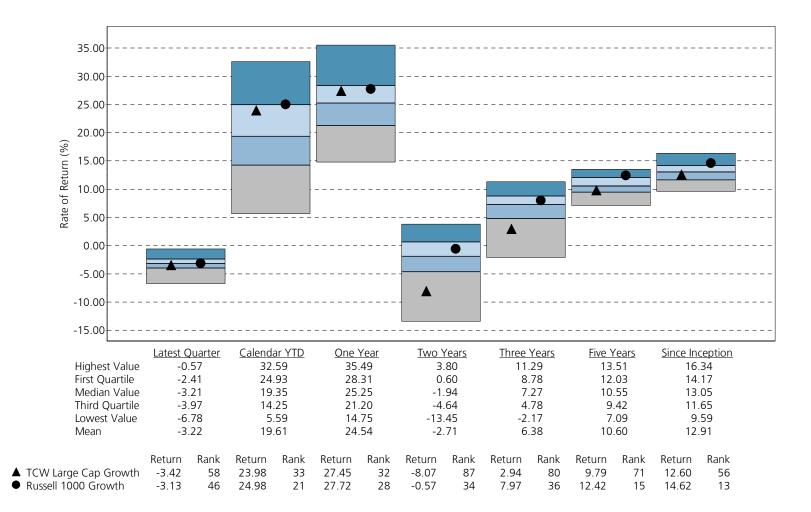
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The primary index comparison for your portfolio and each of its asset classes is listed below.

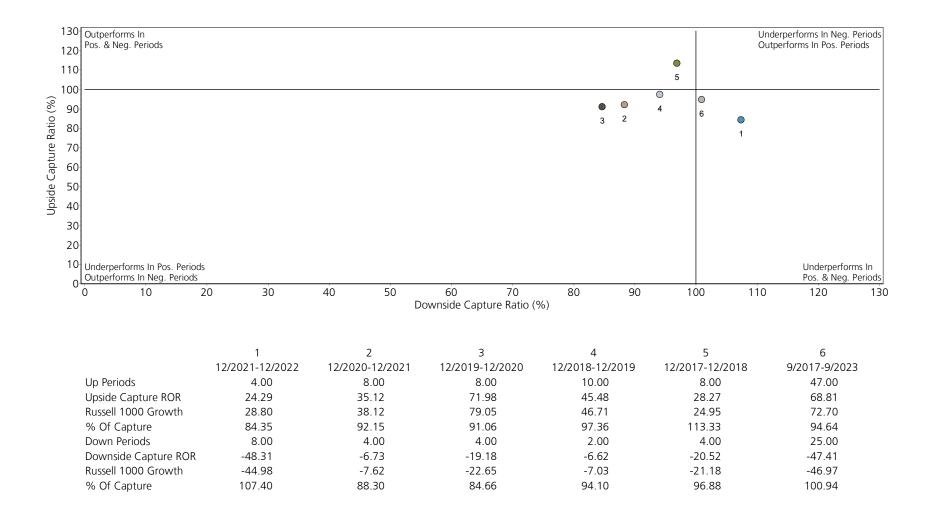
## TOTAL FUND BENCHMARK

9/30/2017 - Present 100% Russell 1000 Growth

### TOTAL FUND versus Large Cap Growth Managers September 30, 2017 Through September 30, 2023









Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Westfield Capital Large Growth

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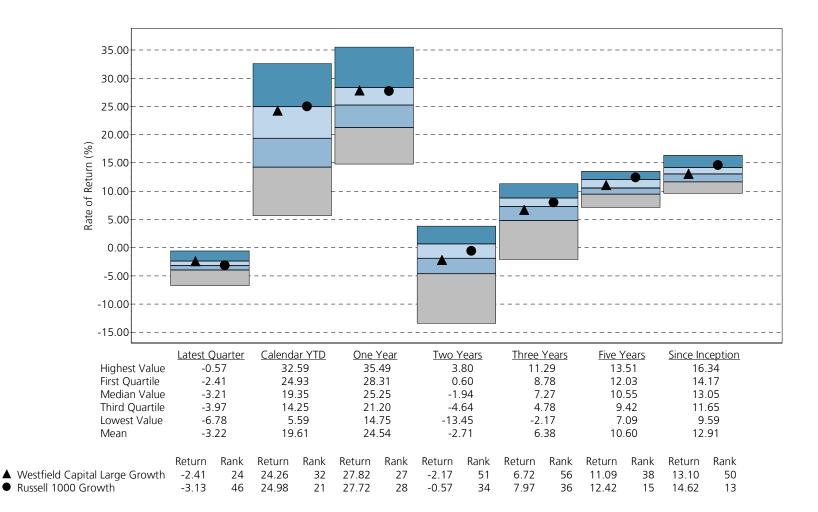
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The primary index comparison for your portfolio and each of its asset classes is listed below.

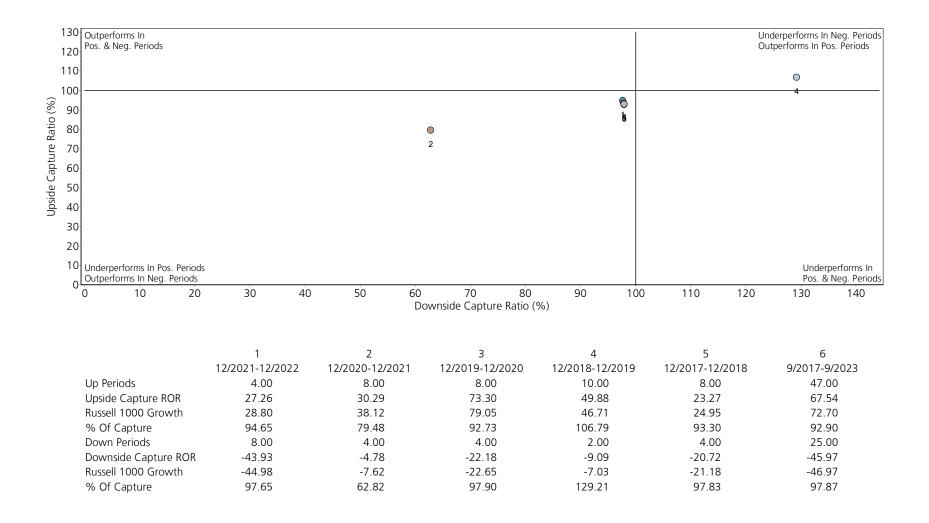
# TOTAL FUND BENCHMARK

9/30/2017 - Present 100% Russell 1000 Growth

TOTAL FUND versus Large Cap Growth Managers September 30, 2017 Through September 30, 2023



## Capture Ratio September 30, 2017 Through September 30, 2023





Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Vanguard Mid-Cap Index Fund Admiral

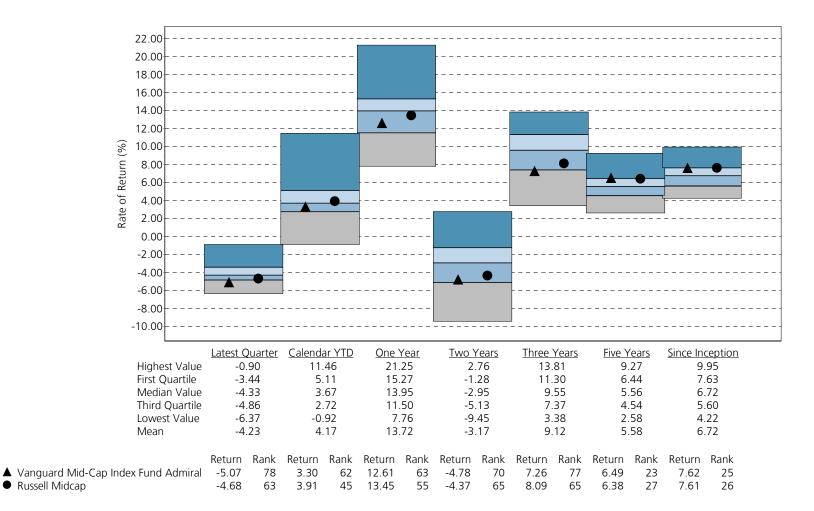
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The primary index comparison for your portfolio and each of its asset classes is listed below.

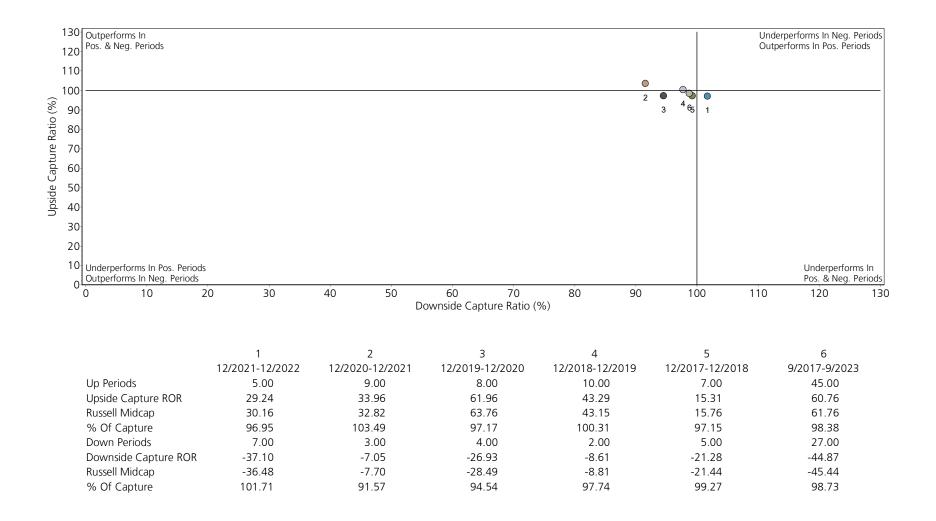
# **TOTAL FUND BENCHMARK**

9/30/2017 - Present 100% Russell Midcap

TOTAL FUND versus Mid Cap Blend Managers September 30, 2017 Through September 30, 2023



## Capture Ratio September 30, 2017 Through September 30, 2023





Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Vaughan Nelson

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

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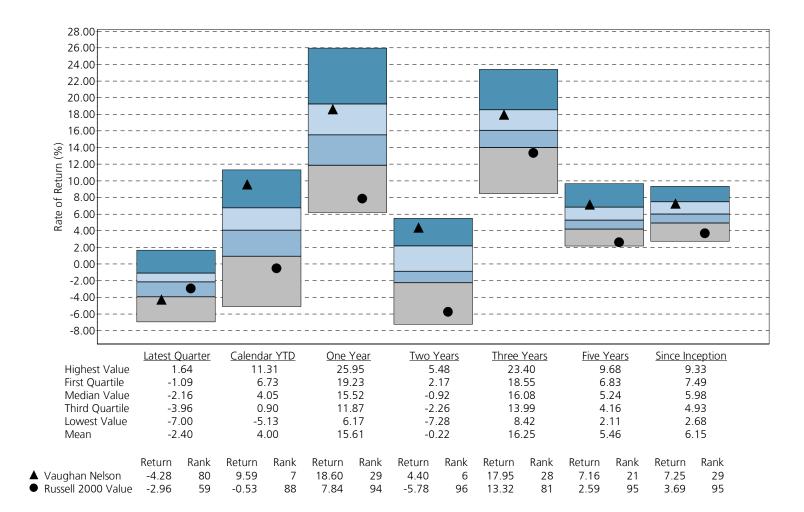
57 of 101 Page 212 of 354

The primary index comparison for your portfolio and each of its asset classes is listed below.

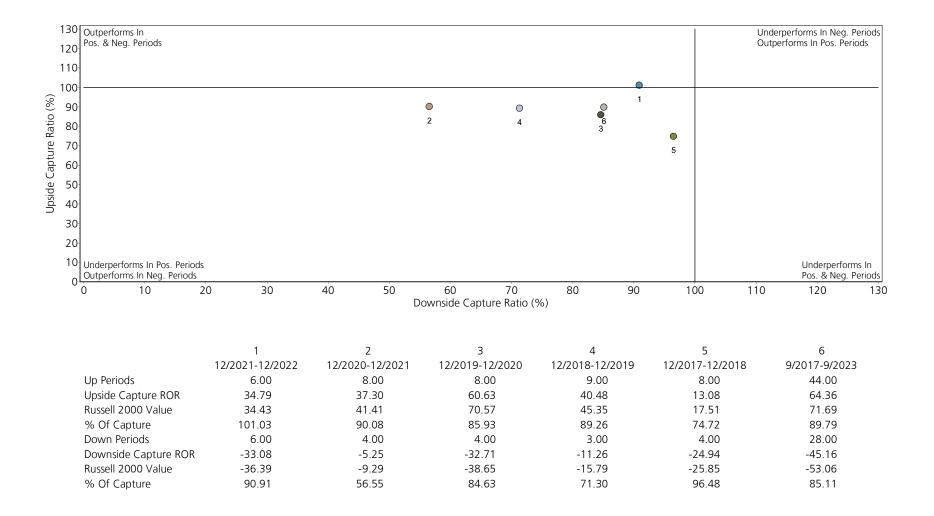
## TOTAL FUND BENCHMARK

9/30/2017 - Present 100% Russell 2000 Value

TOTAL FUND versus Small Cap Value Managers September 30, 2017 Through September 30, 2023









Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Eagle Small Cap Growth Fund

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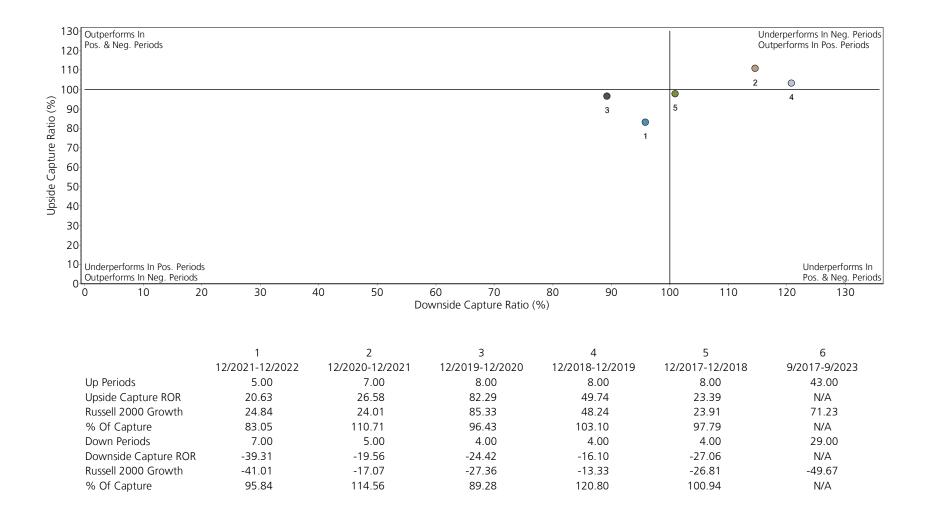
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The primary index comparison for your portfolio and each of its asset classes is listed below.

## TOTAL FUND BENCHMARK

9/30/2017 - Present 100% Russell 2000 Growth

## Capture Ratio September 30, 2017 Through September 30, 2023





Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Vanguard Total International Stock Fund

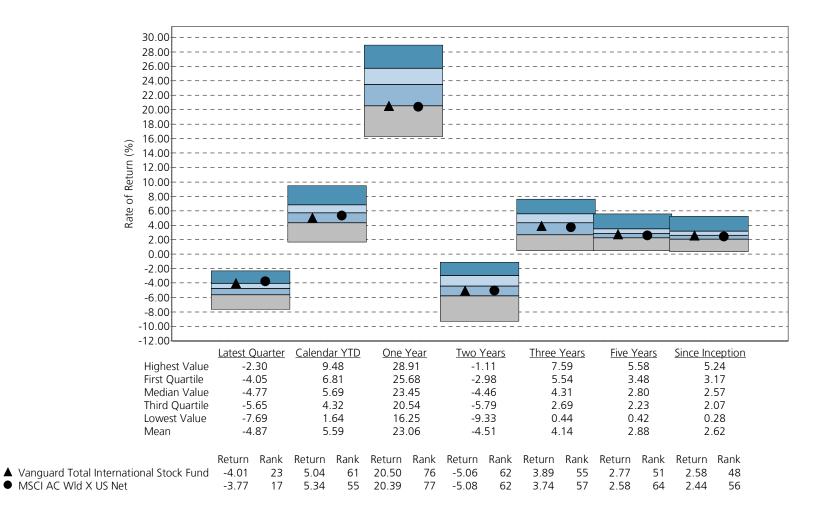
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The primary index comparison for your portfolio and each of its asset classes is listed below.

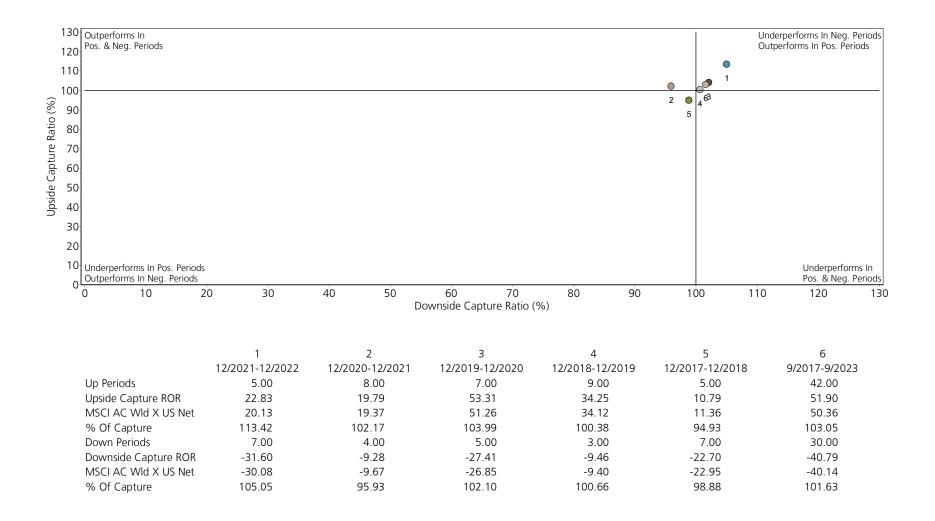
## TOTAL FUND BENCHMARK

9/30/2017 - Present 100% MSCI AC World X US Net

TOTAL FUND versus Foreign Large Blend Managers September 30, 2017 Through September 30, 2023



## Capture Ratio September 30, 2017 Through September 30, 2023





Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Vanguard International Growth Fund

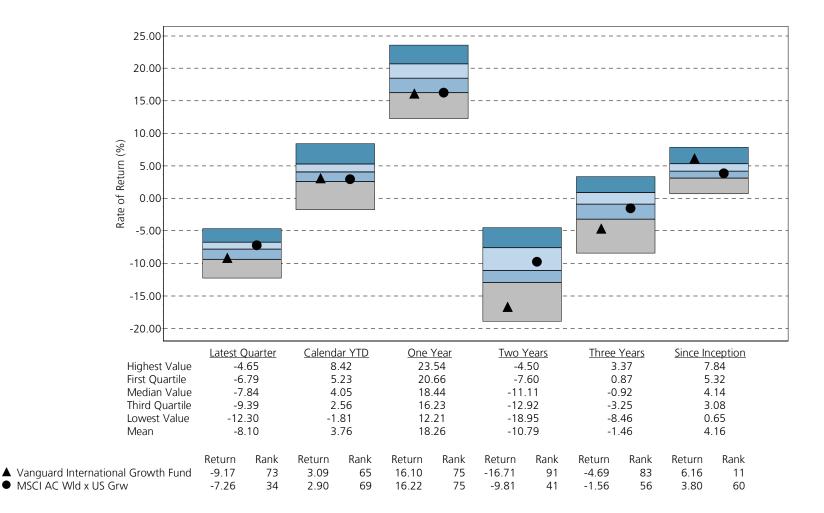
Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

The primary index comparison for your portfolio and each of its asset classes is listed below.

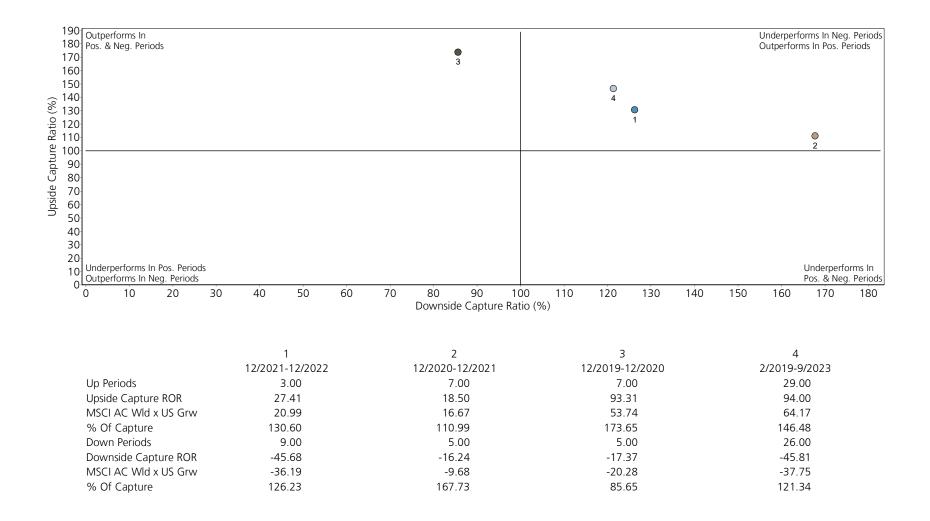
## TOTAL FUND BENCHMARK

2/7/2019 - Present 100% MSCI AC World Index ex USA Growth

TOTAL FUND versus Foreign Large Growth Managers February 28, 2019 Through September 30, 2023



# Capture Ratio February 7, 2019 Through September 30, 2023





Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **Loomis Sayles Global Equity**

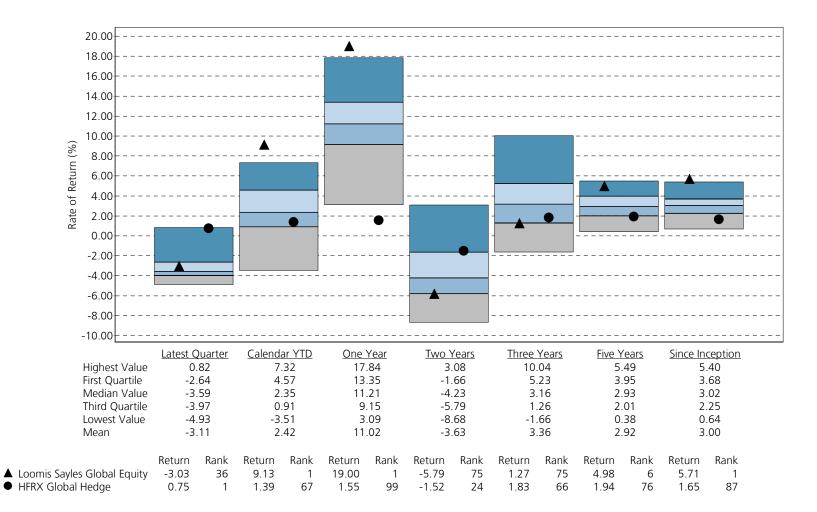
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The primary index comparison for your portfolio and each of its asset classes is listed below.

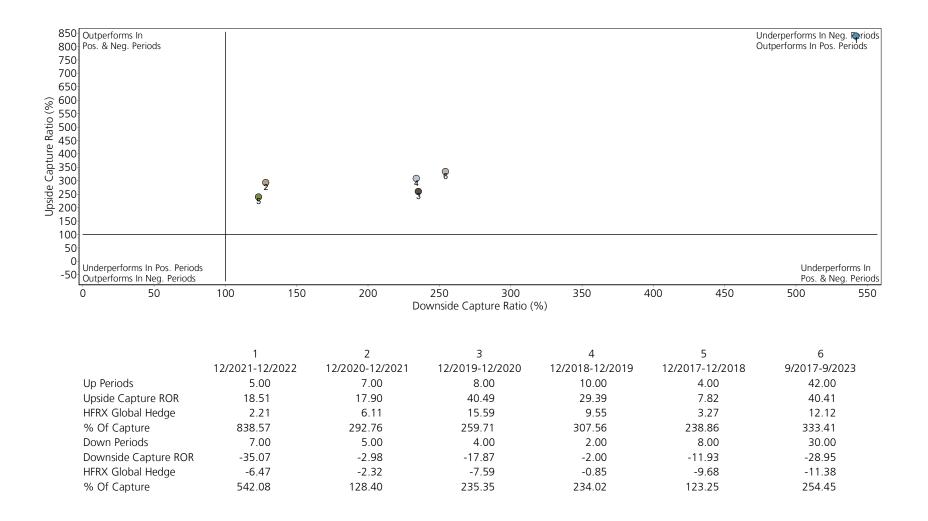
# TOTAL FUND BENCHMARK

9/30/2017 - Present 100% HFRX Global Hedge Fund Index

### TOTAL FUND versus Global Allocation Universe Managers September 30, 2017 Through September 30, 2023



## Capture Ratio September 30, 2017 Through September 30, 2023





Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# First Eagle Global Funds Class I

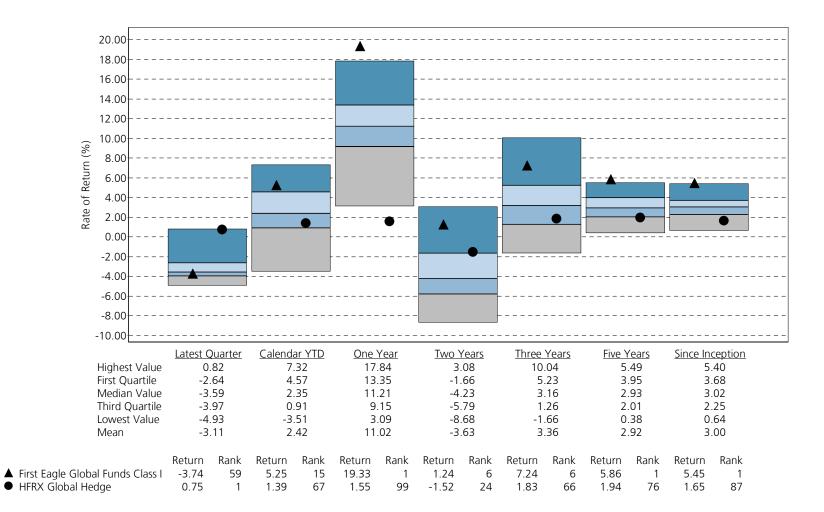
Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

The primary index comparison for your portfolio and each of its asset classes is listed below.

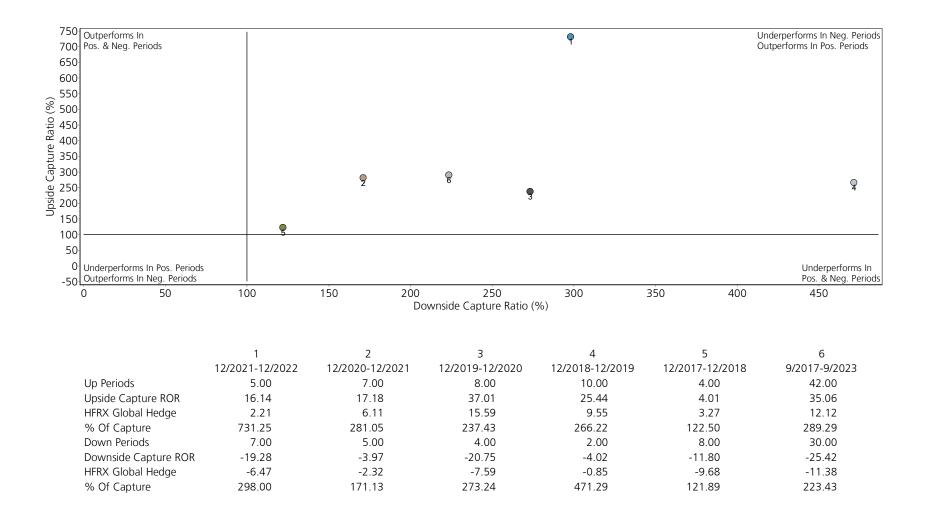
# TOTAL FUND BENCHMARK

9/30/2017 - Present 100% HFRX Global Hedge Fund Index

TOTAL FUND versus Global Allocation Universe Managers September 30, 2017 Through September 30, 2023



## Capture Ratio September 30, 2017 Through September 30, 2023





### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **Blackrock Global Allocation Fund**

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

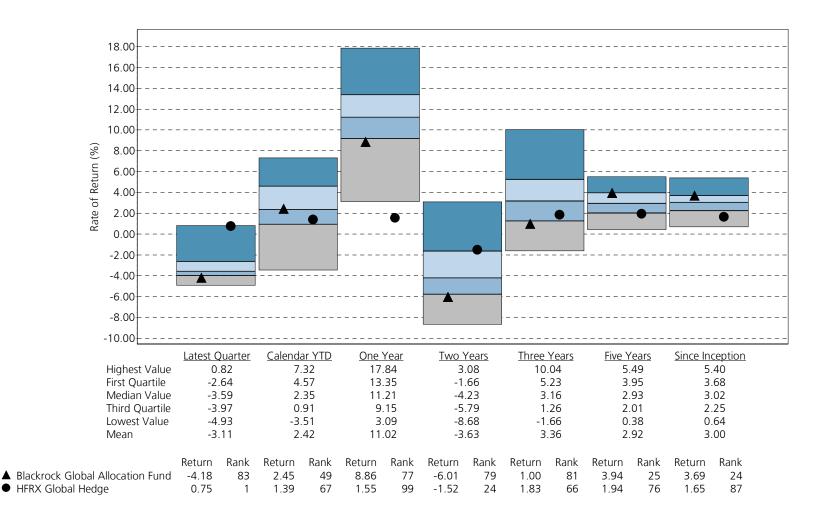
# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

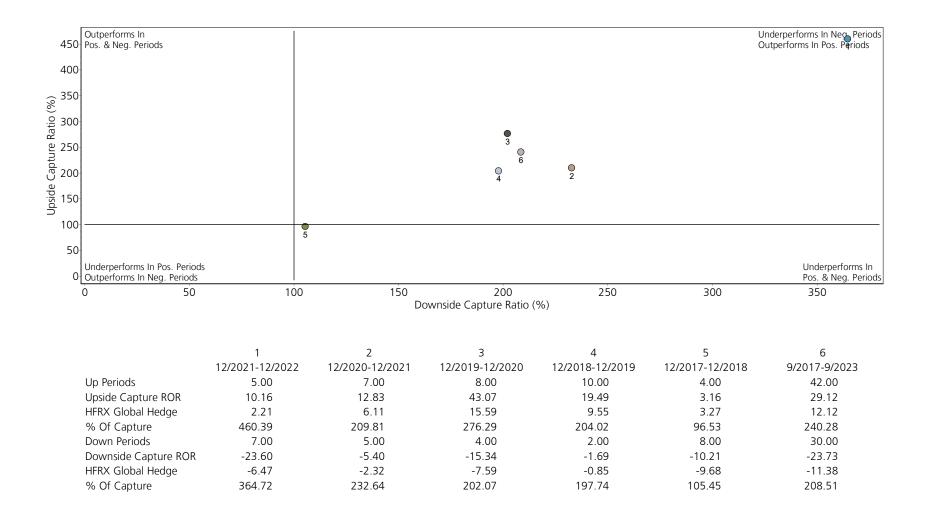
## TOTAL FUND BENCHMARK

9/30/2017 - Present 100% HFRX Global Hedge Fund Index

TOTAL FUND versus Global Allocation Universe Managers September 30, 2017 Through September 30, 2023



## Capture Ratio September 30, 2017 Through September 30, 2023





### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# **Tweedy Browne Global Value Fund**

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

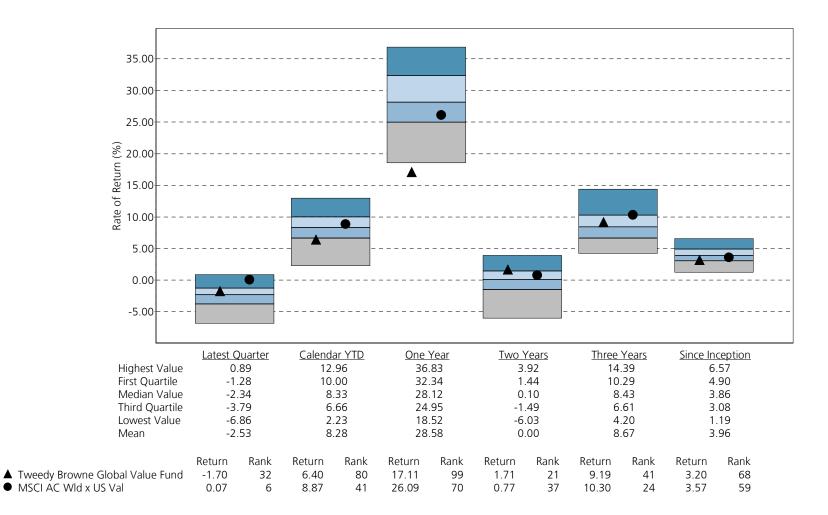
# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

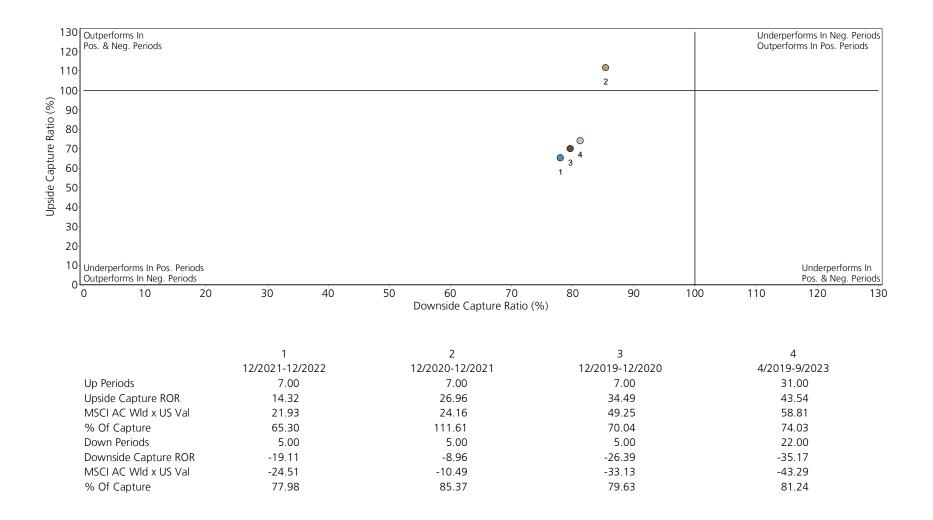
## TOTAL FUND BENCHMARK

4/11/2019 - Present 100% MSCI AC World Index ex USA Value

## TOTAL FUND versus Foreign Large Value Managers April 30, 2019 Through September 30, 2023



## Capture Ratio April 11, 2019 Through September 30, 2023





### **Investment Performance**

Period Ending September 30, 2023

Prepared for: Cobb OPEB October 18, 2023

**Prepared by:** Earle Dodd, Van Price, Allen Wright

# Fuller & Thaler Small Cap Growth

Please contact your UBS Institutional Consultant if you have any questions regarding this report, if your financial situation, individual needs or investment objectives have changed, or if you would like to initiate or modify any investment restrictions on this account.

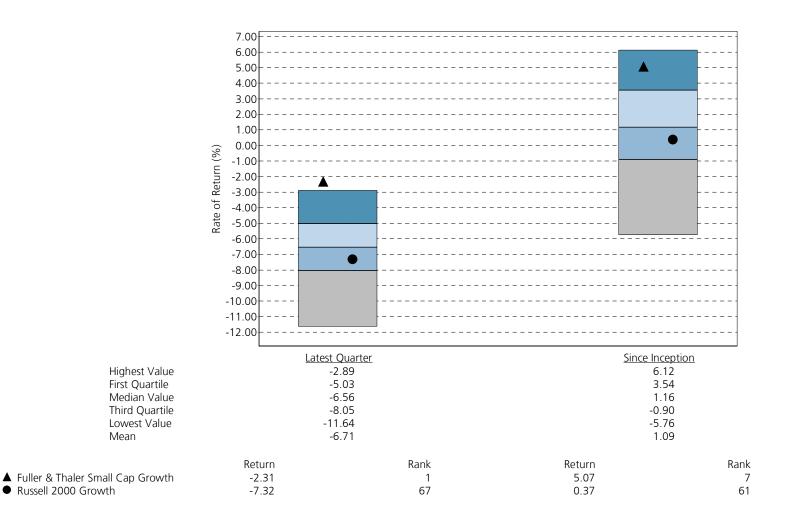
# **Performance Analysis**

The primary index comparison for your portfolio and each of its asset classes is listed below.

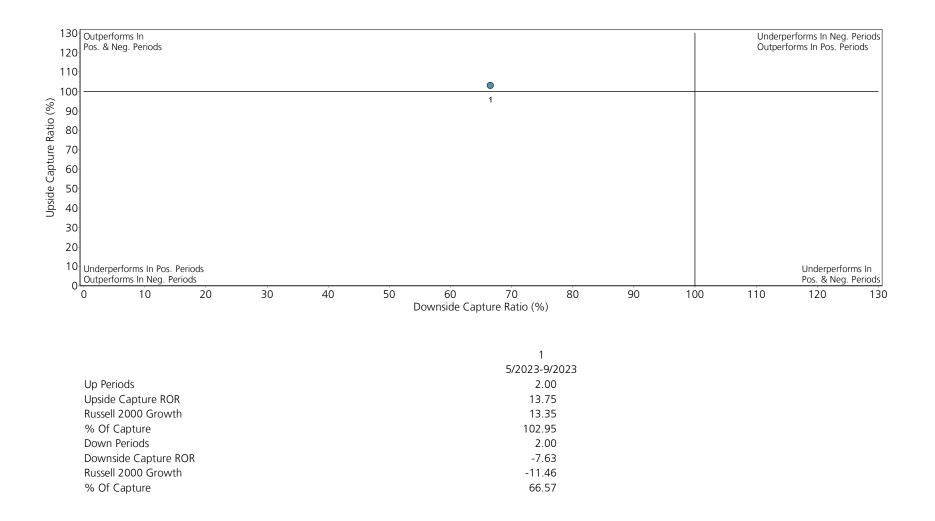
## TOTAL FUND BENCHMARK

5/4/2023 - Present 100% Russell 2000 Growth

## TOTAL FUND versus Small Cap Growth Managers May 31, 2023 Through September 30, 2023



## Capture Ratio May 4, 2023 Through December 31, 2022



## **Cobb OPEB - Investments Not Reviewed by UBS**

UBS does not conduct due diligence and has not otherwise reviewed the following investments or strategies, which are included in this report at your request. You have retained this investment or strategy without the assistance of UBS or any of its employees. The inclusion of these investments/strategies in this performance report does not constitute a recommendation by UBS that you continue to invest or add funds to the strategy.

UBS does not make initial or ongoing recommendations on this investment or manager strategy to existing or prospective clients.

The IC program offers a broad spectrum of investments and manager strategies that are researched by UBS and for which clients can receive investment advice and research. Your IC fee will not be offset or reduced as a result of not accessing our researched options.

At the time of report creation, all investments in your portfolio are reviewed.

Cash and Money Market Funds are not included in this analysis. UBS does not research any money market mutual funds, other than those offered by UBS and its affiliates.

## **Performance Reconciliation Adjustments**

This section provides a record of differences between information reported by your custodian and information used to create this performance report, whether at your direction or as prescribed by your Institutional Consultant on your behalf.

Scenario	Description	Net Adjustment (+/-)

No differences in information were used in the creation of this performance report.

#### IMPORTANT INFORMATION

This report is provided for informational purposes only, does not constitute an offer to buy or sell securities or investment products, does not constitute a recommendation that you buy, sell or hold securities or investment products, and is current as of the date shown. It may include information regarding your UBS Institutional Consulting ("IC") or UBS Consolidated Advisory Program ("CAP") accounts held at various UBS entities including UBS Financial Services Inc., UBS Securities LLC and UBS AG (collectively, "UBS" or "UBS entities"), as well as accounts you hold at other financial institutions. Accounts included in this report are identified at the beginning of the report. Information may be shown for individual accounts or as one or more combined portfolios; the accounts included in each portfolio are also identified at the beginning of the report.

If this output is provided as part of a proposal, it is marketing material. It is provided to you for discussion and consideration and is intended to aid (and be used by) your UBS Consultant or Financial Advisor in providing you with actual individualized investment recommendations. Therefore, they should only be considered in conjunction with the actual recommendations and advice of your UBS Consultant or Financial Advisor, our standard account documents, agreements, disclosures, including the ADV Disclosure for applicable advisory programs, and the additional factors that warrant consideration for your particular financial situation, including costs. The options presented are for discussion purposes only and do not constitute a recommendation to buy, hold, or sell any securities or investment products. This material is not intended and should not be construde to construct to constitute investment advice and does not itself create a fiduciary relationship between you and UBS. You must make independent decisions with respect to any proposals contained within this report. In making those decisions you have reviewed the terms of any Plan with respect to which you are a fiduciary and your obligations to any such Plan under ERISA. If you would like more details about any of the information provided, or personalized recommendations or advice, please contact your UBS Financial Advisor.

Accounts and Assets Included: UBS account statements are the only official records of holdings, balances, transactions, and security values of assets held in UBS accounts and are not replaced, amended or superseded by any of the information presented in this report. If assets that you hold at other financial institutions are included in this report, they are being provided as part of your IC or CAP Services Agreement or you have asked us to include those assets as an accommodation but they are not included as part of your IC or CAP Services Agreement with us. If assets included solely as an accommodation, these assets are identified as such in this report. In either situation, the inclusion of assets held at another financial institution is based on information, including valuation and transactional information, furnished to UBS by you or your custodian. We have not verified, and are not responsible for, the accuracy or completeness of this information. This report is not intended to provide you with consolidated information or reporting regarding your holdings, balances, transactions, and security values of assets, such as account statements for individual accounts held away from UBS. Those documents contain their record of holdings, balances, transactions, and security values of assets held in those accounts, as well as notices, disclosures and other information important to you, and may also serve as a reference should questions arise regarding the accuracy of the information in this report. UBS Financial Services Inc. SIPC coverage would only apply to those assets held at UBS Financial institution where you hold an account to determine the availability of SIPC coverage, if any. We require that you hold and purchase only elligible managed assets in your UBS advisory accounts.

Investment Monitoring: Your IC or CAP Agreement defines the investment monitoring performed as part of your respective investment advisory program. If we have included assets held in UBS brokerage accounts, it is important that you understand that we do not act as an investment adviser or fiduciary on brokerage assets. We do not monitor brokerage account investments through the IC or CAP Programs and we do not monitor investments as a brokerage service unless specifically agreed to in writing. This report is provided solely to help you evaluate your account performance and/or progress toward your financial objectives. By providing this report to you, we are not agreeing to monitor any brokerage account investments contained within the report. If you want ongoing monitoring of your brokerage investments, please speak with your financial advisor about the possibility of including such investments as part of an investment advisory relationship with us. Inclusion of brokerage assets in this report also distorts the actual performance of your advisory assets.

Valuation: Values shown are not inclusive of margin balances. Every reasonable effort has been made to accurately price securities; however, we make no guarantee with respect to any security's price. To determine the value of securities in your account, we generally rely on third party quotation services. If a price is unavailable or believed to be unreliable, we may determine the price in good faith and may use other sources such as the last recorded transaction. We will generally rely on the value provided by you, the custodian or issuer of that security, when (i) securities are held at another custodian; (ii) investments not available through UBS or that our systems do not recognize. To obtain current quotations, when available, contact your Institutional Consultant or Financial Advisor. Such pricing may impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financial institution or you; this will impact the performance information provided by the other financ

Performance Analytics: Unless otherwise noted, performance shown is based on Time Weighted Rate of Return. Periods greater than one year have been annualized, but annual performance may not represent a full calendar year depending on the inception date of the first account included in these reports. Standard deviations are shown only for periods of 12 months or longer. When you hold your assets at UBS, this report will generally show performance net of manager and UBS Institutional Consulting fees, unless you and your UBS Financial Advisor decided to reflect fee information differently. If you hold your assets away from UBS, this report will generally show performance net of manager and UBS Institutional Consulting fees if your custodian provides that level of fee information, unless you and your UBS Financial Advisor decided to reflect fee information, unless you and your UBS Financial Advisor decided to reflect fee information differently. Therefore, this report may reflect performance before the deduction of manager fees and/or UBS Institutional Consulting advisory fees. The payment of fees and expenses will reduce the performance of the account and the reduction in performance will have a cumulative effect over time. The net effect of the payment of fees on the annualized performance, and the compounded or cumulative effect over time, is dependent on the amount of the fee and the account's investment performance. For example, an account that experiences an annual gross performance of 10% but incurs a 2.8% annual fee that is deducted quarterly on a prorated basis, will experience net annual performance of 7.1%, a reduction of 2.9% per year. Compounding will similarly affect the account's performance of 7.1%, a reduction of 2.9% per year.

Performance information incorporates data as of the date your accounts became available for these reports, not as of your initial acquisition of a particular investment unless performance history is imported at client's instruction. For reports that reflect combined account information, the inception date will be the earliest performance start date of any of the individual accounts selected for the consolidation time period. If an individual account's performance information is not available for a full reporting time period (month to date, quarter to date, year to date or performance to date), that account's information will only be included for the period when available. For consolidated accounts that include different account inception dates, the consolidated Additions/Withdrawals, Income Earned and Investment Appreciation/ Depreciation will be reported on from the month end date of when insurance products will be treported on from the month end date of when insurance and annuity activity could be obtained from the carrier. To the extent that your historical data contains a mixture of net and gross performance history related to manager or advisory fees, those distinctions will impact your performance reports to the extent that the different methods of reporting are blended. Note that various factors, including unpriced securities and certain holdings, adjustments or activity may cause the results shown in this report to differ from actual performance (see the Performance reports provided to you by UBS. Performance information may be impacted by the different ways each UBS entities nor any of the these results may differ from other performance is no guarantee of future results. Neither the UBS entities nor any of

You have discussed the receipt of this individually customized report with your Financial Advisor. Your UBS account statements and trade confirmation are the official records of your accounts at UBS. We assign index benchmarks to our asset allocations, strategies in our separately managed accounts and discretionary programs based on our understanding of the allocation, strategy, the investment style and our

research. The benchmarks included in this report can differ from those assigned through our research process. As a result, you may find that the performance comparisons may differ, sometimes significantly, from that presented in performance reports and other materials that are prepared and delivered centrally by the Firm. Depending upon the composition of your portfolio and your investment objectives, the indexes used in this report may not be an appropriate measure for comparison purposes, and as such, are represented for illustration only. Your portfolio holdings and performance may vary significantly from the index. Your financial advisor can provide additional information about how benchmarks within this report were selected.

Using Margin in your IC or CAP Investment Advisory Accounts. Using margin in an advisory account is a more aggressive, higher risk approach to pursuing your investment objectives. Unless you have selected a strategy that requires the use of margin as part of its implementation, we do not recommend the use of margin in advisory accounts, including IC and CAP accounts. The decision to leverage in an advisory account rests solely with you and is made against our recommendation. Your decision should be made only if you understand: (1) the risks of margin in an advisory account; (2) how margin may affect your ability to achieve investment objectives; (3) that you may lose more than your original investment. You will pay interest to UBS on the outstanding margin loan balance. Using margin to purchase securities in an advisory account increases the amount of (but not the percentage of) the advisory fee you pay. Positive or negative performance of a margined advisory account will be magnified by virtue of using margin. You will not benefit from using margin in an advisory account fees incurred by your account as a result of the loan plus the loan proceeds.

Using Advisory Accounts as collateral for a credit line. If you currently have UBS Bank USA Credit Line collateralized by advisory accounts, UBS Bank USA pays UBS Financial Services a servicing fee based on the amount of outstanding loan balances to compensate UBS for referring clients and for administrative and operational support relating to the loan. If you maintain a balance on a non-purpose loan, your Financial Advisor will receive compensation primarily based upon the outstanding balance and the corresponding spread on the loan. This provides an incentive for your Financial Advisor to refer you for a non-purpose loan and to draw down on the loan. As UBS and your Financial Advisor are compensated primarily through advisory fees paid on your account, we (and your Financial Advisor) benefit if you draw down on your loan to meet liquidity needs rather than sell securities or other investments in your UBS account, which would reduce our advisory fee. A draw down would preserve your Financial Advisor's advisory fee revenue and may generate additional loan-related compensation for him. This presents a potential conflict of interest for your Financial Advisor when addressing your needs for liquidity. Please consider your options and these conflicts of interest carefully when deciding whether to liquidate assets or draw down on a non-purpose loan.

UBS Financial Services Inc. is in the business of establishing and maintaining investment accounts and we will receive compensation from you in connection with investments that you make, as well as additional compensation from third parties whose investments we distribute. This presents a conflict of interest when we recommend that you move your assets to UBS from another financial institution, and also when we make investment recommendations for assets you hold at, or purchase through, UBS. For more information on how we are compensated by clients and third parties, conflicts of interest and investments available at UBS please refer to the 'Your relationship with UBS' booklet provided at ubs.com/relationshipwithubs, or ask your UBS Financial Advisor for a copy.Neither UBS, our affiliates nor our Financial Advisors will act as investment adviser to you with respect to the liquidation of securities held in an advisory account to meet a margin call or credit line loan demand

**Benchmark Index Information**: For comparison purposes, these reports may contain a number of general broad market indices, which were selected to demonstrate the performance of broad market indicators that are readily recognized, rather than for direct performance comparisons, and do not reflect the performance of actual investments. The selection and use of benchmarks is not a promise or guarantee that your accounts will meet or exceed the stated benchmarks. Benchmark information is illustrative and relates to historical performance of market indexes and not the performance of actual investments. Indexes are not available for direct investment and reflect an unmanaged universe of securities. Indices assume no management, custody, transaction fees or expenses that would lower the performance results, and assume reinvestment of dividends and capital gains. Information presented. Market index data is subject to review and revision, and UBS reserves the right to substitute indices or display only those indices for which current updated information is available. Information regarding the indexes shown in this report.

**Risk Considerations**: Some of the general risk considerations associated with the investment options included in this report are described below. The descriptions are not meant to be a complete list of all investment risks. For more complete information regarding fees, expenses, risks and restrictions associated with these investments please review the offering documents and marketing materials. Investors should consult their tax advisor about their specific tax situation before investing in any securities. In addition, clients should familiarize themselves with the particular market risks and the other risks associated with the specific investment. All investments contain risk and may lose value.

Cash and cash alternatives: Cash and cash alternatives typically include money market securities or three-month T-Bills. These securities have short maturity dates and they typically provide a stable investment value as compared to other investments and current interest income. These investments may be subject to credit risks and inflation risks. Treasuries also carry liquidity risks for sales prior to maturity. Investments in money market funds are neither insured not guaranteed by the Federal Deposit Insurance Corporation ("FDIC"), the U.S. government or any other government agency. There can be no assurance that the funds will be able to maintain a stable net asset value at \$1.00 per share or unit.

Alternative Investments: Non-traditional asset classes are alternative investments that include hedge funds, private equity, and private real estate (collectively, non-traditional or alternative investments). These investments can be subject to substantial risks (including the risks associated with limited liquidity, the use of leverage, short-sales and concentrated positions), may involve complex tax structures and strategies, and may not be easily valued. The risks of alternative investments should be carefully considered in light of your investment objectives, risk tolerance and net worth. Alternative investments are speculative and entail substantial risks, which may place your capital at risk. Alternative investments may not have been registered with the Securities and Exchange Commission or under any state securities laws. The market for such investments may be highly illiquid and subjectively valued, and these reports provide values for informational purposes only. Accuracy is not guaranteed. These values may differ substantially from prices, if any, at which a unit may be bought or sold and do not necessarily represent the value you would receive from the issuer upon liquidation. Issuer estimated values, if any, are generally updated on a regular (annual or semi-annual) basis and are supplied to us by the issuer, but may be calculated based on different information from what is used by third parties to derive their estimated values.

U.S. Fixed Income: Fixed income represents exposure (whether direct or indirect) to debt issued by private corporations, governments or federal agencies. Historically, fixed income has higher return than cash investments but their value can fluctuate dramatically as they are subject to risks including market, interest rate, issuer, credit, default and inflation risk. An investment in a portfolio may be worth more or less than its original cost when redeemed. In addition, fixed income generally has less volatility and long-term return than equities. U.S. fixed income may be further classified as high yield. These investments are high yielding but may also carry more risk. A bond funds yield and value of its portfolio fluctuate and can be affected by changes in interest rates, general market conditions and other political, social and economic developments.

**U.S. Equity:** Equities represent exposure (whether direct or indirect) to ownership interest in a corporation. Historically, equities are more risky than fixed income or cash investments as they experience greater volatility risk, which is the risk that the value of your investment may fluctuate over time. However, they have had higher returns. Investments in small and medium company stocks can be more volatile over the short term than investments in large company stocks, however, they may offer greater potential for appreciation.

Non-U.S. equity and fixed income: Non-U.S. equity and fixed income represent exposure (whether direct or indirect) to ownership interests and debt, respectively, of foreign governments and corporations that can be sub-divided into those from countries that have developed markets or emerging markets. Further, non-U.S. companies not reporting with the SEC may be subject to accounting, auditing, and financial reporting standards and requirements that differ from companies reporting with the SEC and may have less publicly available information about them than companies reporting with the SEC.

International: Investors in securities of issuers located outside of the United States should be aware that even for securities denominated in U.S. dollars, changes in the exchange rate between the U.S. dollar and the issues "home" currency can have unexpected effects on the market value and liquidity of those securities. Those securities may also be affected by other risks (such as political =, economic or regulatory changes) that may not be readily known to a U.S investor.

Variable Annuities: A variable deferred annuity is a long-term financial product designed for retirement purposes. It is a contractual agreement in which payment(s) are made to an insurance company, which agrees to pay out an income or a lump sum amount at a later date. There are fees and charges associated with a variable annuity contract, which include, but are not limited to, operations charges, sales and surrender charges, administrative fees, and additional charges for optional benefits. Variable annuities are sold by prospectus and you should carefully consider important information on the sub-accounts' investment objectives, risk, charges and expenses.

Please read the prospectus and offering documents carefully before you invest. Your Financial Advisor can provide a copy of the prospectus. For current month-end returns:

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<htp://advisor.morningstar.com/familyinfo.asp <http://advisor.morningstar.com/familyinfo.asp> <http://advisor.morningstar.com/familyinfo.asp> <http://advisor.morningstar.com/familyinfo.asp> withdrawals
from an annuity contract are taxable as ordinary income, not as capital gains and, if made prior to age 59 and 1/2, may be subject to an additional 10% federal income tax penalty. Withdrawals may also be
subject to surrender charges. Withdrawals will reduce the death benefit, living benefits and cash surrender value. For tax purposes, withdrawals will come from any gain in the contract first. Please see the
prospectus for complete details. Amounts in the annuity's variable investment portfolios are subject to fluctuation in value and market risk, including loss of principal. Unregistered group variable annuities and
registered group variable annuities that are solely available for use in qualified plans are rated and ranked based on their position within the bell curve of the open end fund peer group. These ratings and ranks are calculated by using an overlay of the open end fund peer group break points and therefore do not contribute to the category
average or number of funds within the peer group. For variable annuity subaccounts, standardized return is total return based on its inception date within the separate account and is adjusted to reflect
recurring and non-recurring charges such as surrender fees, contract charges, maximum front-end load, maximum deferred load, maximum M&E risk charge, administration fees, and actual ongoing
fund-level expenses. The benchmark used for each individual subaccount performance is an index that has been assigned to the particular manager or fund.

Mutual Fund Performance Information: Mutual Funds are sold by prospectus and you should carefully consider important information on the fund's investment objectives, risk, charges and expenses. Please read the prospectus and offering documents carefully before you invest. Your UBS Institutional Consultant can provide a copy of the prospectus. For current month-end returns: <<htp://advisor.morningstar.com/familyinfo.asp> <htp://advisor.morningstar.com/familyinfo.asp> This analysis may incorporate mutual fund and exchange traded fund performance results. Analyticsshown are calculated based on the fund's Net Asset Value, which may reflect the reinvestment of dividends and capital gains, as well as the deduction of 12b-1 fees and fund internal expenses (e.g. fund management fees). The analytics do not reflect the deduction of the sales load, where applicable, the UBS Consulting fee(s), where applicable, or the impact of taxes. Had the sales load, fee or taxes been included, the results used in this analysis would have been reduced.

Wilshire Trust Universe Comparison Service Information: These reports may contain comparative peer performance data provided by Wilshire Associates Incorporated (Wilshire®), entitled "Quartile Ranking Comparison." Output will be presented as a universe organized by asset type, plan type, plan size or other basis. Wilshire®, the Wilshire Trust Universe Comparison Service® and TUCS® are service marks of Wilshire Associates Incorporated and have been licensed for use by UBS Financial Services Inc. All content of TUCS is ©2021 Wilshire Associates Incorporated, all rights reserved.

Ranking Methodology. Universe ranking assigns a whole number rank between 1 and 99 for a set of values. This is the distribution. Ranking is determined by comparing a value to the values in the set, and using the rank assigned to the value that is equal to or 'better' than the value being compared. A 'better' value is based on whether a higher value is better or a lower vale is better. A set of values can be ranked either high to low (as in rates of return, where a higher value is better than a lower value) or low to high (such as Beta)**Policy Index**: A point of reference for evaluating a portfolio's investment performance. A policy Index can be comprised of single or multiple benchmarks (weighted blend). Portfolios with multiple benchmarks will be depicted with a description of benchmarks and weights that comprise the policy. **The benchmarks that** constitute the policy index change over time as your portfolio changes. For historical policy index information, see the Benchmark Subset in this Report exhibit.

Gain/(Loss) Information: When data is available from UBS, estimated unrealized gains/losses are calculated for individual security lots. For assets transferred from another financial institution, gain/loss information will be reflected only for the period of time the assets have been held at UBS entities. For assets held at other financial institutions, information provided by you or that entity, if any, is reflected. Total realized gain/loss information may include calculations based upon non-UBS entities cost basis information. UBS Financial Services Inc. does not independently verify or guarantee the accuracy or validity of any information provided by sources other than UBS Financial Services Inc. When original cost information is unavailable, gain/loss amounts will represent current market value and total gains/losses may be inaccurate. Date information for when a particular security was acquired, when available, appears on these reports. When no acquisition date is provided for a security, these reports reflect "NA" and omit this information. As a result, these figures may not be accurate and are provided for informational purposes only.

Interest and Dividend Income: When shown on this report, information does not reflect your account's tax status or reporting requirements. You should use only official IRS forms for tax reporting purposes. The classification of private investment distributions can only be determined by referring to the official year-end tax-reporting document provided by the issuer.

**Contributions and Withdrawals**: When shown on a report, information regarding contributions and withdrawals may represent the net value of all cash and securities contributions and withdrawals, and may include program fees (including wrap fees) and other fees added to or subtracted from your accounts from the first day to the last day of the period covered by these reports. Program fees may be separately identified or included in withdrawals except when paid via an invoice or through a separate account billing arrangement.

**Cash Flow**: Cash Flow analysis is based on the historical dividend, coupon and interest payments you have received as of the Record Date in connection with the securities listed and assumes that you will continue to hold the securities for the periods for which cash flows are projected. This may or may not include principal paybacks for the securities listed. These potential cash flows are subject to change due to a variety of reasons, including but not limited to, contractual provisions, changes in corporate policies, changes in the value of the underlying securities and interest rate fluctuations. The effect of a call on any security(s) and the consequential impact on its potential cash flows) is not reflected in this report. Payments that occur in the same month in which the report is generated -- but prior to the report run ("As of") date -- are not reflected in this report. In determining the potential cash flows, UBS relies on information obtained from third party services it believes to be reliable but does not independently verify or guarantee the accuracy or validity of any information provided by third parties. Cash flows for mortgage-backed, asset-backed, factored, and other pass-through securities are based on the assumptions that the current face amount, principal pay-down, interest payment and payment frequency remain constant.

Calculations may include principal payments, are intended to be an estimate of future projected interest cash flows and do not in any way guarantee accuracy.

Important information about advisory & brokerage services: As a firm providing wealth management services to clients, UBS Financial Services Inc. offers investment advisory services in its capacity as an SEC-registered by different laws and separate arrangements. It is important that clients understand the ways in which we conduct business and that they carefully read the agreements and disclosures that we provide to them about the products or services we offer. A small number of our financial advisors are not permitted to offer advisory services to you, and can only work with you directly as UBS broker-dealer representatives. Your financial advisors are acting in our capacity as an investment adviser or broker-dealer. For more information, please review the PDF document at ubs.com/relationshipsummary. While we strive to make sure the nature of our services is clear in the materials we publish, if at any time you would like clarification on the nature of your accounts or the services you are receiving, please speak with your UBS Institutional Consultant. The ACCESS, SWP, AAP, MAC and Institutional Consulting ("IC") programs offer some of the same Separately Manage Account ("SMA") Managers for different SMA Manager fees. The amount of the fee paid to each SMA Manager is a function of that SMA Manager in the dual-contract structure of the MAC or IC program, you may find that the single-contract structure in ACCESS and SWP provides a more cost-effective option or vice versa. In addition, based on the combination of our fees and your SMA Manager's fees, the overall fee for your SMA account in ACCESS, SWP, AAC or IC may exceed 3% of the account value. Please review your options and overall costs carefully with your Financial Advisor before investing

#### **Calculation Definitions**

Accrued Interest: In accounting, accrued interest refers to the amount of interest that has been incurred, as of a specific date, on a loan or other financial obligation but has not yet been paid out. Accrued interest can either be in the form of accrued interest revenue, for the lender, or accrued interest expense, for the borrower. The term accrued interest can also refer to the amount of bond interest that has accumulated since the last time a bond interest payment was made.

Alpha: Alpha measures the difference between an investment's actual performance, and its expected performance as indicated by the returns of a selected market index. A positive Alpha indicates the risk-adjusted performance is above that index. In calculating Alpha, Standard Deviation (total risk) is used as risk measure. Alpha is often used to judge the value added or subtracted by a manager. Annual Income is money (or some equivalent value) that an individual or business receives, usually in exchange for providing a good or service or through investing capital. Income is used to fund day-to-day expenditures. Investments, pensions, and Social Security are primary sources of income for retirees. For individuals, income is often received in the form of wages or salary. Business income can refer to a company's remaining revenues after paving all expenses and taxes. In this case, income is referred to as "earnings." Most forms of income are subject to taxation.

Appreciation/Depreciation: Appreciation or Depreciation is the change in market value minus net cash flows. The value indicates by how much the portfolio value has changed due to changes in asset values. Appreciation would be an increase, Depreciation would be a decrease.

Average Exposure: Average Exposure is generally, the average allocation to a segment or an asset. Calculated as the beginning market value plus the weighted net cash flows as a percentage of the total portfolio market value.

Beta: Beta is defined as a Manager's sensitivity to market movements and is used to evaluate market related, or systematic risk. Beta is a measure of the linear relationship, over time, of the Manager's returns and those of the Benchmark. Beta is computed by regressing the Manager's excess returns over the risk free rate (cash proxy) against the excess returns of the Benchmark over the risk free rate. An investment that is as equally volatile as the market will have a Beta of 1.0; an investment half as volatile as the market will have a Beta of 0.5; and so on. Thus, Betas higher than 1.0 indicate that the fund is more volatile than the market.

**Composite Benchmark:** The Composite Benchmark is a weighted average benchmark based on the allocation of funds within each of the portfolios in the composite and the risk index assigned to each portfolio. **Correlation (R):** The Correlation represents the degree to which investments move in tandem with one another and is a critical component of diversified portfolio construction. The Correlation varies between a minimum of -1 (move in opposite direction) and a maximum of 1 (completely correlated). Lower Correlations enhance diversification and lead to better risk-adjusted returns within diversified portfolios. An R of less than 0.3 is often considered low Correlation.

**Cost:** This is the Cost basis information. Cost basis is the original value of an asset for tax purposes, usually the purchase price, adjusted for stock splits, dividends, and return of capital distributions. This value is used to determine the capital gain, which is equal to the difference between the asset's cost basis and the current market value.

Coupon Rate: A coupon rate is the yield paid by a fixed-income security; a fixed-income security's coupon rate is the annual coupon payments paid by the issuer relative to the bond's face or par value. The coupon rate, or coupon payment, is the yield the bond paid on its issue date. This yield changes as the value of the bond changes, thus giving the bond's face or part value. The weighted average of the assets' coupon rates.

Current Yield: This measure looks at the current price of a bond instead of its face value and represents the return an investor would expect if he or she purchased the bond and held it for a year. This measure is not an accurate reflection of the actual return that an investor will receive in all cases because bond and stock prices are constantly changing due to market factors.

**Distribution of Excess Returns:** Distribution of Excess Returns displays an arrangement of statistical data that exhibits the frequency of occurrence of the investment's returns in excess of the selected Market Index. **Distribution of Assets:** Distribution of Assets displays monthly data related to net contributions, market values, rates of return, and Index Values.

**Down Market (Mkt) Capture Ratio:** Down Market Capture Ratio is a measure of an investment's performance in down markets relative to the market itself. A down market is one in which the market's return is less than zero. The lower the investment's Down Market Capture Ratio, the better the investment protected capital during a market decline. A negative Down Market Capture Ratio indicates that an investment's returns rose while the market declined.

Downside Capture Return: The downside capture return is the cumulative performance of the portfolio in all periods during which the risk benchmark posted a negative return.

**Downside Probability:** The downside probability is the ratio of the number of periods during which the portfolio posted a negative return to the total number of periods under study. If, for example, during a 12 month span, the portfolio realized 5 months of negative returns, the downside probability would be equal to 5/12 or 42 percent. The sum of the downside and upside probabilities must equal 1.0. The downside probability does not consider the extent to which the portfolio will fail to exceed the target index. It merely considers the likelihood that the target will not be exceeded. It is important to bear in mind this point when comparing the downside probabilities of more than one portfolio. It is not necessarily correct, for example, to deem portfolio A riskier than portfolio B simply because A has a higher downside probability.

**Downside Risk (Semi Standard Deviation, Semi Std Dev, or Downside Deviation):**Downside Risk only identifies volatility on the down side. Downside Risk measures the variability of returns below zero, whereas Standard Deviation attributes volatility in either direction to risk. The Downside Risk method calculates the deviations below zero for each observed return. Each time a return falls below zero, the sum is divided by the number of observations and the square root is taken. This result is then shown on an annualized basis.

Dynamic Index: A weighted average blended benchmark of the risk indices assigned to each asset class, based on the asset allocation of the portfolio for a given period. The benchmark index weighting adjusts with changes to the asset allocation. A Dynamic Index should not be used when measuring against the client's Investment Policy Statement.

Effective Duration: A duration calculation for bonds with embedded options. Effective duration takes into account that expected cash flows will fluctuate as interest rates change.

Excess: Denotes that a statistic is being measured relative to the Market Index selected. The data set analyzed consists of the periodic differences between the investment's measure and the selected Market Index's definition. Expense Ratio: Often referred to as the Net Expense Ratio, Morningstar pulls the net annual expense ratio from the fund's audited annual report. Annual-report expense ratios reflect the actual fees charged during a particular fiscal year. The annual report expense ratio for a fund of funds is the wrap or sponsor fee only. The expense ratio expresses the percentage of assets deducted each fiscal year for fund expenses, including 12b-1 fees, management fees, administrative fees, operating costs, and all other asset-based costs incurred by the fund. Portfolio transaction fees, or brokerage costs, as well as initial or deferred sales charges are not included in the expense ratio. The expense ratio, which is deducted from the fund's average net assets, is accrued on a daily basis. If the fund's assets are small, its expense ratio can be quite high because the fund must meet its expenses from a restricted asset base. Conversely, as the net assets of the fund grow, the expense percentage should ideally diminish as expenses are spread across the wider base. Funds may also opt to waive all or a portion of the expenses that make up their overall expense ratio.

Gross Dollar Weighted Return: Gross Dollar Weighted Return is the internal rate of return, excluding money manager fees.

Gross Expense Ratio: Represents the total gross expenses (net expenses with waivers added back in) divided by the fund's average net assets. If it is not equal to the net expense ratio, the gross expense ratio portrays the fund's expenses had the fund not waived a portion, or all, of its fees. Thus, to some degree, it is an indication of fee contracts. Some fee waivers have an expiration date; other waivers are in place indefinitely.

Gross Time Weighted Return: Gross Time Weighted Return is the Modified Dietz return, excluding money manager fees.

Index Value: Index Value is the unit value series based on the return stream. It can be used to calculate rates of return between any two dates in the report.

Information Ratio: The Information Ratio is a measure of value added by an investment manager. It is the ratio of (annualized) excess return above the selected Market Index to (annualized) Tracking Error.

Excess return is calculated by linking the difference of the manager's return for each period minus the selected Market Index return for each period, then annualizing the result.

Investment Class: Group of financial instruments which have similar financial characteristics and which tend to behave similarly in the marketplace.

Investment Style: Method and philosophy followed by a manager when selecting financial instruments.

Management Firm: Professional organization managing various assets in order to meet specified investment goals for the benefit of its clients.

Manager Capture Ratio: The Manager Capture Ratio is manager return divided by the selected Market Index return. It shows what portion of the market performance was captured by the manager under certain market conditions: up market, down market, or both.

Market Experience: Market Experience is the presumable market value of the portfolio if it and its cash flows had grown at the policy index rate of return. It lets the reader know if active management has aided or hurt the portfolio.

Maturity Date: The maturity date is the date on which the principal amount of a note, draft, acceptance bond or other debt instrument becomes due. On this date, which is generally printed on the certificate of the instrument in question, the principal investment is repaid to the investor, while the interest payments that were regularly paid out during the life of the bond, cease to roll in. The maturity date also refers to the termination date (due date) on which an installment loan must be paid back in full.

Net Cash Flow: For the total portfolio, net cash flow is aggregate contributions minus aggregate withdrawals. At the asset class level, net cash flow is aggregate purchases minus aggregate sales minus aggregate income. It is used in the numerator of the Modified Dietz return calculation. It is the same as "New Money" and "Flow".

Net Dollar Weighted Return: Net Dollar Weighted Returns is the internal rate of return, including money manager fees.

Net Time Weighted Return: Net Time Weighted Return is the Modified Dietz return, including money manager fees.

New Money: For the total portfolio, New Money is aggregate contributions minus aggregate withdrawals. At the asset class level, New Money is aggregate purchases minus aggregate sales minus aggregate income. It is used in the numerator of the Modified Dietz return calculation. It is the same as "Net Cash Flow" and "Flow".

**Par value:** Par value is the face value of a bond. The market price of a bond may be above or below par, depending on factors such as the level of interest rates and the bond's credit status. Par value for a bond is typically \$1,000 or \$100 because these are the usual denominations in which they are issued.

**Performance Attribution:** Attribution analysis is a sophisticated method for evaluating the performance of a portfolio or fund manager. Manager Contribution focuses on three factors: the manager's investment style, their specific asset selections, and the market timing of those selections. It attempts to provide a quantitative analysis of the aspects of a fund manager's investment selections and philosophy that lead to that fund's performance. Asset Allocation provides an analysis of the effects on relative performance (i.e., performance vs. an index) that are related to a portfolio's allocation between asset classes. Total Fund Attribution combines the Manager Contribution results with the impacts of Asset Allocation decisions.

Real rate of return is the annual percentage of profit earned on an investment, adjusted for inflation. Therefore, the real rate of return accurately indicates the actual purchasing power of a given amount of money over time. Adjusting the nominal return to compensate for inflation allows the investor to determine how much of a nominal return is real return. In addition to adjusting for inflation, investors also must consider the impact of other factors such as taxes and investing fees in order to calculate real returns on their money or to choose among various investing options.

Tracking error is the divergence between the price behavior of a position or a portfolio and the price behavior of a benchmark. This is often in the context of a hedge fund, mutual fund, or exchange-traded fund (ETF) that did not work as effectively as intended, creating an unexpected profit or loss. Tracking error is reported as a standard deviation percentage difference, which reports the difference between the return an investor receives and that of the benchmark they were attempting to imitate.

Treynor ratio, also known as the reward-to-volatility ratio, is a performance metric for determining how much excess return was generated for each unit of risk taken on by a portfolio. Excess return in this sense refers to the return earned above the return that could have been earned in a risk-free investment. Although there is no true risk-free investment, treasury bills are often used to represent the risk-free return in the Treynor ratio. Risk in the Treynor ratio refers to systematic risk as measured by a portfolio's beta. Beta measures the tendency of a portfolio's return to change in response to changes in return for the overall marketUpside market Capture ratio. The Upside Capture Ratio is the ratio of the Upside Capture Return of a portfolio against a benchmark index- divided by the Market Benchmark Index's return (from zero or positive returns). Upside Capture Return, which is measured based a related benchmark index's returns, is the portfolio's compound return for returns in periods, in which the respective benchmark index's return is above or equal to zero.

Yield to maturity (YTM) is the total return anticipated on a bond if the bond is held until it matures. Yield to maturity is considered a long-term bond yield but is expressed as an annual rate. In other words, it is the internal rate of return (IRR) of an investment in a bond if the investor holds the bond until maturity, with all payments made as scheduled and reinvested at the same rate. Policy Index: A point of reference for evaluating a portfolio's investment performance. A policy Index can be comprised of single or multiple benchmarks (weighted blend). Portfolios with multiple benchmarks will be depicted with a description of benchmarks and weights that comprise the policy.

Rate of Return, ROR, Return %, ROI: All Return terms refer to the Modified Dietz return.

**Relative Risk:** Relative risk is simply the ratio of the standard deviation of the portfolio to the standard deviation of the risk index. The statistic reveals how much of the variation of the risk index is "shared" by the portfolio. A relative risk of 1.0 indicates that the portfolio has the same level of return variability as the risk index. A relative risk of less than 1.0 indicates that the portfolio has shown a lower dispersion of returns than the index. A relative risk in excess of 1.0 indicates that the portfolio returns have been more dispersed than those of the index.

**Riskless Index:** The theoretical rate of return of an investment with zero risk. The risk-free rate represents the interest an investor would expect from an absolutely risk-free investment over a specified period of time. The 3 month T-Bill is the usual index used for riskless.

**R-Squared (R2):** The diversification measure R2 indicates the percentage of volatility in portfolio returns which can be "explained" by market volatility. This statistic indicates the degree to which the observed values of one variable, such as the returns of a managed portfolio, can be explained by, or are associated with the values of another variable, such as a Market Index. It is especially helpful in assessing how likely it is that Alpha and Beta are statistically significant. The R2 values generally range from 0.0 to 1.0. An investment with an R2 of 1.0 is perfectly correlated with the market whereas an investment with an R2 of 0.0 will behave independently of the market. An R2 of 0.95, for example, implies that 95% of the fluctuations in a portfolio are explained by fluctuations in the market.

**Sector Allocations:** The percentage a manager has allocated to specific economic sectors.

Sharpe Ratio: The Sharpe Ratio indicates the excess return per unit of total risk as measured by Standard Deviation. It is a ratio of the arithmetic average of excess returns over the risk free rate to the Standard Deviation. The Sharpe Ratio is a measure of the premium earned for the risk incurred by the portfolio.

**Sortino Ratio**: The Sortino Ratio is a measure of reward per unit of risk. With Sortino, the numerator (i.e., reward) is defined as the incremental compounded average return over the minimum acceptable return (MAR). The denominator (i.e., risk) is defined as the downside deviation of the returns below the MAR. Since the downside deviation is the standard deviation of those returns which fail to exceed the MAR, the result of the Sortino Ratio is a measure of the average reward per unit of loss. As with Sharpe and Treynor, the Sortino Ratio only has value when it is used as the basis of comparison between portfolios. The higher the Sortino Ratio, the better.

Standard Deviation: A measure of the extent to which observations in a series vary from the arithmetic mean of the series. The Standard Deviation of a series of asset returns is a measure of volatility or risk of the asset. Target Allocation: The Target Allocation is the allocation goal of the portfolio approaches and long- and short-term holding periods.

HFRI Relative Value: Equally weighted index of investment managers who maintain positions in which the investment thesis is predicated on realization of a valuation discrepancy in the relationship between multiple securities. Managers employ a variety of fundamental and quantitative techniques to establish investment theses, and security types range broadly across equity, fixed income, derivative or other security types. Unit Values: Unit Value links periodic rates of return, beginning with an initial value of 100. It can be used to calculate rates of return between any two dates in the report.

#### Index Definitions

JP Morgan Global Ex-U.S. Bond Index: Consists of regularly traded, fixed-rate domestic government debt instruments from 12 international bond markets. Countries included are Austria, Belgium, Canada, Denmark, France, Germany, Italy, Japan, the Netherlands, Spain, Sweden and the United Kingdom.

MSCI AC World Index ex USA: Consists of approximately 2,000 securities across 47 markets, with emerging markets representing approximately 18%. MSCI attempts to capture approximately 85% of the market capitalization in each country.

**MSCI EAFE Index (Europe, Australasia, Far East):** A free float-adjusted market capitalization index that is designed to measure the equity market performance of developed markets, excluding the U.S. and Canada. As of June 2007, the MSCI EAFE Index consisted of the following 21 developed market country indexes: Australia, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Hong Kong, Ireland, Italy, Japan, the Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland and the United Kingdom.

**MSCI Emerging Markets Index:** A free float-adjusted market capitalization index that is designed to measure equity market performance of emerging markets. As of November 2008, the MSCI Emerging Markets Index consisted of the following 24 emerging market country indexes: Argentina, Brazil, Chile, China, Colombia, Czech Republic, Egypt, Hungary, India, Indonesia, Israel, Korea, Malaysia, Mexico, Morocco, Pakistan, Peru, Philippines, Poland, Russia, South Africa, Taiwan, Thailand and Turkey.

**MSCI Europe Index:** A free float-adjusted market capitalization-weighted index that is designed to measure the equity market performance of the developed markets in Europe. As of June 2007, the MSCI Europe Index consisted of the following 16 developed market country indexes: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

MSCI Japan Index: A free float-adjusted market capitalization-weighted index that is designed to measure the equity market performance of Japan.

NAREIT index: Benchmarks the performance of the REIT industry since its inception in 1972. It was designed to provide a comprehensive assessment of overall industry performance. Some REITs available from over-the-counter markets are not included due to the lack of real-time pricing.

NCREIF Property Index (NPI): A quarterly time series composite total rate of return measure of investment performance of a large pool of individual commercial real estate properties acquired in the private market for investment purposes only. All properties in the NPI have been acquired, at least in part, on behalf of tax-exempt institutional investors - the great majority being pension funds. As such, all properties are held in a fiduciary environment.

Russell 1000® Index: Measures the performance of the large-cap segment of the U.S. equity universe. It is a subset of the Russell 3000® Index and includes approximately 1000 of the largest securities based on a combination of their market cap and current index membership. The Russell 1000 represents approximately 92% of the U.S. market.

Russell 1000® Growth Index: Measures the performance of the large-cap growth segment of the U.S. equity universe. It includes those Russell 1000 companies with higher price-to-book ratios and higher forecasted growth values.

Russell 1000® Value Index: Measures the performance of the large-cap value segment of the U.S. equity universe. It includes those Russell 1000 companies with lower price-to-book ratios and lower expected growth values. Russell 2000® Growth Index: Measures the performance of the small-cap growth segment of the U.S. equity universe. It includes those Russell 2000 companies with higher price-to-book ratios and higher forecasted growth values.

Russell 2000® Value Index: Measures the performance of the small-cap value segment of the U.S. equity universe. It includes those Russell 2000 companies with lower price-to-book ratios and lower forecasted growth values.

Russell Mid-Cap® Growth Index: Measures the performance of the mid-cap growth segment of the U.S. equity universe. It includes those Russell mid-cap companies with higher price-to-book ratios and higher forecasted growth values.

Russell Mid-Cap® Value Index: Measures the performance of the mid-cap value segment of the U.S. equity universe. It includes those Russell mid-cap companies with lower price-to-book ratios and lower forecasted growth values.

S&P 500 Index: Covers 500 large cap industrial, utility, transportation, and financial companies of the US markets. The index represents about 75% of NYSE market capitalization and 30% of NYSE issues. It is a capitalization weighted index calculated on a total return basis with dividends reinvested.

TASS Index of CTAs: Is a dollar-weighted index based on historical managed futures performance of CTAs with established track records.

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# Quarterly Investment Review Cobb County 10/16/2023

Data as of 09/30/2023



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## **Active Evaluation Criteria**

- **1** Manager Tenure (MGR) > 3 years
- 2 Total Net Assets (ASSETS) > \$500 Mil
- **3** 3 year Annualized Return vs. peers (3 YR PEER) in top 50%
- **4** 5 year Annualized Return vs. peers (5 YR PEER) in top 50%
- **5** Net Expense Ratio vs. peers (NET EXP PEER) in top 50%

## **Passive Evaluation Criteria**

- **1** Manager Tenure (MGR) > 3 years
- 2 Total Net Assets (ASSETS) > \$500 Mil
- 3 3 year Tracking Error vs. peers (3 YR TRACK ERR PEER) in top 25%
- 4 Net Expense Ratio vs. peers (NET EXP PEER) in top 25%

(1) Fund was re-categorized following UBS assessment of investment style.

(2) This investment or strategy is not available through UBS. Please see "Investment Eligibility" and "Non-Program Investments Displayed in this Report" sections of the "Important Information About this Report" section for details.

(3) Since your last Report, this investment option has been removed from the UBS fund eligibility list and is no longer available through UBS Criteria and Weighting Factors were defined by the plan sponsor. Refer to the Definitions section for definitions. Scoring Methodologies can be found in the "Important Information About This Report" section.



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as of 09/30/2023

# **Cobb** County **Executive Summary**

ACTIVE FUNDS CATEGORY	INVESTMENT	SCO	ORE	FUND QTRS			CRITERIA (1 - 5)		
		Q2	Q3	ACTION ON			- ( -,		
		23	23	WATCH	æ	ASSETS	R PEER	R PEER	NET EXP PEER
					MGR	ASS	3 YR	5 YR	<b>D</b> E
Large Blend	American Funds Washington Mutual R6 - RWMGX	4	5		•	•			
Large Growth	JPMorgan Large Cap Growth R6 - JLGMX	5	5		•	٠	٠	٠	٠
Mid-Cap Value	Victory Sycamore Established Value R6 - VEVRX	5	5		•	•	٠	•	٠
Mid-Cap Growth	Delaware Ivy Mid Cap Growth R6 - IGRFX	5	4		•	٠	0	٠	٠
Small Blend	ClearBridge Small Cap I - LMNSX	3	3		•	۲	0	0	٠
Real Estate	Nuveen Real Estate Securities R6 - FREGX	4	4		•	۲	۲	0	٠
Foreign Large Blend	MFS Intl Diversification R6 - MDIZX	4	4		•	٠	0	٠	•
Foreign Large Growth	American Funds Europacific Growth R6 - RERGX	5	5		•	٠	٠	٠	•
Global Large-Stock Growth	American Funds New Perspective R6 - RNPGX	5	5		•	٠	۲	٠	٠
Intermediate Core-Plus Bond	Western Asset Core Plus Bond IS - WAPSX	3	3		•	٠	0	0	٠
High Yield Bond	PGIM High Yield R6 - PHYQX	5	5		•	٠	٠	٠	٠
Money Market-Taxable	Vanguard Treasury Money Market Investor - VUSXX	5	5		•	٠	٠	٠	٠
Target-Date 2000-2010	American Funds 2010 Trgt Date Retire R6 - RFTTX	5	5		•	٠	٠	٠	٠
Target Date 2015	American Funds 2015 Trgt Date Retire R6 - RFJTX	5	5		•	٠	٠	٠	٠
Target Date 2020	American Funds 2020 Trgt Date Retire R6 - RRCTX	5	5		•	٠	٠	٠	٠
Target Date 2025	American Funds 2025 Trgt Date Retire R6 - RFDTX	5	5		•	٠	٠	٠	٠
Target Date 2030	American Funds 2030 Trgt Date Retire R6 - RFETX	5	5		•	٠	٠	٠	٠

Score and Criteria Legend: Meets Does Not Meet O

(1) Fund was re-categorized following UBS assessment of investment style.

(2) This investment or strategy is not available through UBS. Please see "Investment Eligibility" and "Non-Program Investments Displayed in this Report" sections of the "Important Information About this Report" section for details.

(3) Since your last Report, this investment option has been removed from the UBS fund eligibility list and is no longer available through UBS Criteria and Weighting Factors were defined by the plan sponsor. Refer to the Definitions section for definitions. Scoring Methodologies can be found in the "Important Information About This Report" section.

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# Cobb County Executive Summary

ACTIVE FUNDS CATEGORY	INVESTMENT	SCORE FUN		FUND QTRS	UND QTRS		CRITERIA (1 - 5)			
		Q2 23	Q3 23	ACTION ON WATCH	MGR	ASSETS	3 YR PEER	5 YR PEER	NET EXP PEER	
Target Date 2035	American Funds 2035 Trgt Date Retire R6 - RFFTX	5	5		•	٠	٠	٠	٠	
Target Date 2040	American Funds 2040 Trgt Date Retire R6 - RFGTX	5	5		•	٠	٠	٠	۲	
Target Date 2045	American Funds 2045 Trgt Date Retire R6 - RFHTX	4	4		•	۲	0	۲	۲	
Target Date 2050	American Funds 2050 Trgt Date Retire R6 - RFITX	4	4		•	٠	0	٠	۲	
Target Date 2055	American Funds 2055 Trgt Date Retire R6 - RFKTX	4	4		•	۲	0	۲	۲	
Target-Date 2060	American Funds 2060 Trgt Date Retire R6 - RFUTX	4	4		•	٠	0	٠	۲	
Target-Date 2065+	American Funds 2065 Trgt Date Retire R6 - RFVTX	3	3		•	٠	0	-	٠	

Score and Criteria Legend: Meets Does Not Meet O

(1) Fund was re-categorized following UBS assessment of investment style.

(2) This investment or strategy is not available through UBS. Please see "Investment Eligibility" and "Non-Program Investments Displayed in this Report" sections of the "Important Information About this Report" section for details.

(3) Since your last Report, this investment option has been removed from the UBS fund eligibility list and is no longer available through UBS Criteria and Weighting Factors were defined by the plan sponsor. Refer to the Definitions section for definitions. Scoring Methodologies can be found in the "Important Information About This Report" section.



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as of 09/30/2023

PASSIVE FUNDS CATEGORY	INVESTMENT	sco	DRE	FUND QTRS		CRITERIA (1 - 4)			
		Q2 23	Q3 23	ACTION ON WATCH	MGR	ASSETS	3 YR TRACK ERR PEER	NET EXP PEER	
Large Blend	Vanguard Institutional Index Instl Pl - VIIIX	4	4		٠	•	٠	٠	

Score and Criteria Legend: Meets O Does Not Meet O

(1) Fund was re-categorized following UBS assessment of investment style.

(2) This investment or strategy is not available through UBS. Please see "Investment Eligibility" and "Non-Program Investments Displayed in this Report" sections of the "Important Information About this Report" section for details.

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ACTIVE

IVESTMENT	MGR	ASSETS (000,000)	0) 3 YR PEER 5 YR PEER		NET EXP PEER	SCORE OF 5
ge Blend						
American Funds Washington Mutual R6 - RWMGX	26.27	\$153,252	11.69	9.07	0.27	5
Peer Rank Percentile	-	-	10	41	17	-
Russell 1000 TR USD	-	-	9.53	9.63	-	-
Peer Group Median (50th Percentile)	7.99	\$876	9.35	8.76	0.72	-
ge Growth						
JPMorgan Large Cap Growth R6 - JLGMX	19.17	\$62,349	5.61	13.38	0.44	5
Peer Rank Percentile	-	-	39	3	9	-
Russell 1000 Growth TR USD	-	-	7.97	12.42	-	-
Peer Group Median (50th Percentile)	10.13	\$1,077	4.77	9.20	0.87	-
-Cap Value						
Victory Sycamore Established Value R6 - VEVRX	25.18	\$16,851	15.69	8.69	0.54	5
Peer Rank Percentile	-	-	18	7	12	-
Russell Mid Cap Value TR USD	-	-	10.98	5.18	-	-
Peer Group Median (50th Percentile)	10.70	\$698	13.41	5.47	0.90	-
-Cap Growth						
Delaware Ivy Mid Cap Growth R6 - IGRFX	22.65	\$5,504	0.94	7.90	0.69	4
Peer Rank Percentile	-	-	52	20	15	-
Russell Mid Cap Growth TR USD	-	-	2.61	6.97	-	-
Peer Group Median (50th Percentile)	11.34	\$913	1.16	5.98	1.01	-
all Blend						
ClearBridge Small Cap I - LMNSX	12.01	\$798	9.63	1.88	0.84	3
Peer Rank Percentile	-	-	61	83	33	-
Russell 2000 TR USD	-	-	7.16	2.40	-	-
Peer Group Median (50th Percentile)	10.00	\$343	10.48	3.58	0.96	-

Criteria Legend:

Meets Criteria Does Not Meet Criteria

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ACTIVE

NVESTMENT	MGR	ASSETS (000,000)	3 YR PEER	5 YR PEER	NET EXP PEER	SCORE OF 5
al Estate						
Nuveen Real Estate Securities R6 - FREGX	18.35	\$913	3.50	2.62	0.85	4
Peer Rank Percentile	-	-	50	55	40	-
FTSE NAREIT Equity REITs TR USD	-	-	5.76	2.77	-	-
Peer Group Median (50th Percentile)	9.75	\$227	3.48	2.78	0.98	-
reign Large Blend						
MFS Intl Diversification R6 - MDIZX	5.08	\$35,522	2.24	3.85	0.73	4
Peer Rank Percentile	-	-	80	19	35	-
MSCI ACWI EX USA NR USD	-	-	3.74	2.58	-	-
Peer Group Median (50th Percentile)	7.48	\$688	4.36	2.84	0.89	-
reign Large Growth						
American Funds Europacific Growth R6 - RERGX	22.35	\$126,563	0.08	3.11	0.47	5
Peer Rank Percentile	-	-	37	40	6	-
MSCI ACWI Ex USA Growth NR USD	-	-	-1.86	2.54	-	-
Peer Group Median (50th Percentile)	10.47	\$995	-0.90	2.70	0.97	-
bal Large-Stock Growth						
American Funds New Perspective R6 - RNPGX	22.84	\$115,078	4.92	8.36	0.41	5
Peer Rank Percentile	-	-	20	13	1	-
MSCI ACWI Large Cap Growth NR USD	-	-	4.16	9.21	-	-
Peer Group Median (50th Percentile)	9.31	\$560	2.44	6.11	0.99	-
ermediate Core-Plus Bond						
Western Asset Core Plus Bond IS - WAPSX	16.76	\$22,574	-7.05	-0.71	0.42	3
Peer Rank Percentile	-	-	99	89	17	-
Bloomberg US Agg Bond TR USD	-	-	-5.21	0.10	-	-
Peer Group Median (50th Percentile)	9.84	\$1,317	-4.81	0.20	0.64	-

Criteria Legend:

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ACTIVE

IVESTMENT	MGR	ASSETS (000,000)	3 YR PEER	5 YR PEER	NET EXP PEER	SCORE OF 5
h Yield Bond						
PGIM High Yield R6 - PHYQX	15.97	\$17,499	1.61	3.11	0.38	5
Peer Rank Percentile	-	-	50	21	9	-
ICE BofA US High Yield TR USD	-	-	1.82	2.80	-	-
Peer Group Median (50th Percentile)	9.18	\$450	1.60	2.38	0.78	-
ney Market-Taxable						
Vanguard Treasury Money Market Investor - VUSXX	5.78	\$59,076	1.72	1.66	0.09	5
Peer Rank Percentile	-	-	13	4	2	-
ICE BofA USD 3M Dep OR CM TR USD	-	-	1.70	1.86	-	-
Peer Group Median (50th Percentile)	16.81	\$27,184	1.61	1.49	0.34	-
get-Date 2000-2010						
American Funds 2010 Trgt Date Retire R6 - RFTTX	11.75	\$3,794	2.03	3.74	0.28	5
Peer Rank Percentile	-	-	1	4	25	-
S&P Target Date 2010 TR USD	-	-	1.03	3.09	-	-
Peer Group Median (50th Percentile)	10.12	\$95	0.47	2.74	0.43	-
get Date 2015						
American Funds 2015 Trgt Date Retire R6 - RFJTX	11.75	\$4,863	2.32	3.97	0.30	5
Peer Rank Percentile	-	-	2	4	20	-
S&P Target Date 2015 TR USD	-	-	1.57	3.32	-	-
Peer Group Median (50th Percentile)	9.42	\$171	1.00	3.07	0.50	-
get Date 2020						
American Funds 2020 Trgt Date Retire R6 - RRCTX	11.75	\$15,383	2.32	4.11	0.30	5
Peer Rank Percentile	-	-	8	6	17	-
S&P Target Date 2020 TR USD	-	-	1.91	3.44	-	-
Peer Group Median (50th Percentile)	10.25	\$468	1.37	3.31	0.54	-

Criteria Legend:

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ACTIVE

NVESTMENT	MGR	ASSETS (000,000)	3 YR PEER	5 YR PEER	NET EXP PEER	SCORE OF 5
rget Date 2025						
American Funds 2025 Trgt Date Retire R6 - RFDTX	11.75	\$30,617	2.61	4.63	0.32	5
Peer Rank Percentile	-	-	13	3	16	-
S&P Target Date 2025 TR USD	-	-	3.03	4.02	-	-
Peer Group Median (50th Percentile)	10.61	\$487	1.71	3.56	0.58	-
rget Date 2030						
American Funds 2030 Trgt Date Retire R6 - RFETX	11.75	\$40,522	3.46	5.15	0.33	5
Peer Rank Percentile	-	-	12	3	16	-
S&P Target Date 2030 TR USD	-	-	4.08	4.51	-	-
Peer Group Median (50th Percentile)	10.25	\$694	2.75	4.07	0.59	-
rget Date 2035						
American Funds 2035 Trgt Date Retire R6 - RFFTX	11.75	\$36,969	4.63	6.01	0.35	5
Peer Rank Percentile	-	-	15	1	18	-
S&P Target Date 2035 TR USD	-	-	5.24	5.07	-	-
Peer Group Median (50th Percentile)	10.38	\$553	4.00	4.69	0.60	-
rget Date 2040						
American Funds 2040 Trgt Date Retire R6 - RFGTX	11.75	\$33,157	5.30	6.46	0.36	5
Peer Rank Percentile	-	-	33	1	18	-
S&P Target Date 2040 TR USD	-	-	6.16	5.53	-	-
Peer Group Median (50th Percentile)	10.32	\$646	4.99	5.15	0.64	-
rget Date 2045						
American Funds 2045 Trgt Date Retire R6 - RFHTX	11.75	\$27,150	5.39	6.52	0.37	4
Peer Rank Percentile	-	-	61	2	19	-
S&P Target Date 2045 TR USD	-	-	6.72	5.81	-	-
Peer Group Median (50th Percentile)	10.38	\$480	5.65	5.50	0.62	-

Criteria Legend:

Meets Criteria Does Not Meet Criteria

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ACTIVE

NVESTMENT	MGR	ASSETS (000,000)	3 YR PEER	5 YR PEER	NET EXP PEER	SCORE OF 5
rget Date 2050						
American Funds 2050 Trgt Date Retire R6 - RFITX	11.75	\$24,090	5.28	6.49	0.38	4
Peer Rank Percentile	-	-	74	3	18	-
S&P Target Date 2050 TR USD	-	-	7.01	5.93	-	-
Peer Group Median (50th Percentile)	10.38	\$444	5.79	5.59	0.63	-
rget Date 2055						
American Funds 2055 Trgt Date Retire R6 - RFKTX	11.75	\$16,205	5.16	6.41	0.38	4
Peer Rank Percentile	-	-	81	5	19	-
S&P Target Date 2055 TR USD	-	-	7.12	5.98	-	-
Peer Group Median (50th Percentile)	9.52	\$308	5.89	5.62	0.64	-
rget-Date 2060						
American Funds 2060 Trgt Date Retire R6 - RFUTX	8.52	\$9,090	5.12	6.37	0.38	4
Peer Rank Percentile	-	-	83	7	18	-
S&P Target Date 2060+ TR USD	-	-	7.09	6.00	-	-
Peer Group Median (50th Percentile)	7.08	\$144	5.97	5.61	0.64	-
rget-Date 2065+						
American Funds 2065 Trgt Date Retire R6 - RFVTX	3.75	\$1,645	5.15	-	0.38	3
Peer Rank Percentile	-	-	72	-	19	-
S&P Target Date 2060+ TR USD	-	-	7.09	6.00	-	-
Peer Group Median (50th Percentile)	3.02	\$12	5.81	5.78	0.64	-

Criteria Legend:

Meets Criteria Does Not Meet Criteria

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#### PASSIVE

INVESTMENT	MGR	ASSETS (000,000)	3 YR TRACK ERR PEER	NET EXP PEER	SCORE OF 4
Large Blend					
Vanguard Institutional Index Instl Pl - VIIIX	22.76	\$241,625	0.01	0.02	4
Peer Rank Percentile	-	-	1	2	-
S&P 500 TR USD	-	-	-	-	-
Peer Group Median (50th Percentile)	7.99	\$876	3.02	0.72	-

Criteria Legend:

Meets Criteria Does Not Meet Criteria

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## **Related to the subsequent Performance Summary pages in this report:**

Performance data for periods greater than one year are annualized returns. The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate thus an investor's shares, when redeemed, will be worth more or less than their original cost. Current performance can be lower or higher than return data quoted herein.

Standardized Returns assume reinvestment of dividends and capital gains. It depicts performance without adjusting for the effects of taxation or any applicable maximum sales charges but are adjusted to reflect ongoing fund expenses. If adjusted for taxation or maximum sales charges, the performance quoted would be significantly reduced. For variable annuities (if applicable), additional expenses will be taken in account, including M&E risk charges, fund-level expenses such as management fees and operating fees, and contract level administration fees charges as surrender, contract and sales charges.

In some cases multiple benchmarks may be displayed in order to assist you in reviewing the results of the fund. Secondary benchmarks will be italicized if included.

For performance data current to the most recent month-end please visit http://advisor.morningstar.com/familyinfo.asp

Performance is presented after deduction of fund management fees and certain other expenses associated with the Funds. However, performance is shown gross of the deduction of Investment Advisory fees. The payment of these fees will reduce the plan's overall performance and will have a cumulative effect over time. The net effect of the deduction of advisory fees on annualized performance, and the compounded or cumulative effect over time, is determined by the amount of the fee and the plan's investment performance. For example, for a plan in the RPCS Program that experiences an annual gross performance of 10% but incurs a 2% annual fee that is deducted guarterly on a prorated basis, the plan will experience net annual performance of approximately 7.98% per year, a reduction of 2.02% per year. Compounding will similarly affect the plan's overall performance on a cumulative basis. Actual performance will be lower or higher than the results shown.

Please see the fund prospectus which includes investment objectives, risks, fees, expense, and other information that you should read and consider carefully before investing. To obtain a prospectus and most recent performance, contact your financial advisor or the fund company at the website shown in the "Fund Fact Sheets" section of this report.

(1) Fund was re-categorized following UBS assessment of investment style. (2) Results shown for periods of time prior to INCEPTION DATE include pre-Inception Returns. Note however that SI ("Since Inception Returns") always reflect results for the actual share class and thus do not include pre-Inception Returns. Please see the Important Information About This Report section for details. See the Important Information About This Report section for definitions of Fund Score and the Scoring Process. Values in () following performance represent Peer Group Percentile Rank.



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as of 09/30/2023 13 of 98 ACTIVE FUND ASSETS - \$139,972,245

INVESTMENT	ASSETS	LAST QTR	YTD	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	SI	INCEPTION DATE	GROSS EXP	NET EXP	SCORE
arge Blend												
American Funds Washington Mutual R6 - RWMGX <sup>2</sup>	\$9,421,210	-2.08 (12)	5.58 (83)	18.35 (67)	11.69 (10)	9.07 (41)	10.78 (44)	13.05	01-May-2009	0.27	0.27	5
Russell 1000 TR USD		-3.15	13.01	21.19	9.53	9.63	11.63	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.28	11.28	20.30	9.35	8.76	10.55	-	-	0.79	0.72	-
Number of Funds in Peer Group		1495	1458	1441	1321	1238	1064	-	-	-	-	-
arge Growth												
JPMorgan Large Cap Growth R6 - JLGMX <sup>2</sup>	\$30,867,831	-3.64 (49)	18.93 (64)	23.20 (59)	5.61 (39)	13.38 (3)	15.32 (3)	15.16	30-Nov-2010	0.51	0.44	5
Russell 1000 Growth TR USD		-3.13	24.98	27.72	7.97	12.42	14.48	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.67	21.31	24.47	4.77	9.20	11.88	-	-	0.95	0.87	-
Number of Funds in Peer Group		1236	1229	1222	1156	1105	1013	-	-	-	-	-
id-Cap Value												
Victory Sycamore Established Value R6 - VEVRX <sup>2</sup>	\$2,833,042	-4.06 (57)	-0.22 (67)	12.76 (54)	15.69 (18)	8.69 (7)	10.92 (1)	10.09	04-Mar-2014	0.54	0.54	5
Russell Mid Cap Value TR USD		-4.46	0.54	11.05	10.98	5.18	7.92	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.77	1.31	13.28	13.41	5.47	7.45	-	-	1.00	0.90	-
Number of Funds in Peer Group		403	401	400	390	382	328	-	-	-	-	-
id-Cap Growth												
Delaware Ivy Mid Cap Growth R6 - IGRFX <sup>2</sup>	\$6,725,840	-11.08 (97)	5.31 (74)	11.73 (62)	0.94 (52)	7.90 (20)	10.15 (25)	10.28	31-Jul-2014	0.83	0.69	4
Russell Mid Cap Growth TR USD		-5.22	9.88	17.47	2.61	6.97	9.94	-	-	-	-	-
Peer Group Median (50th Percentile)		-5.69	8.05	13.90	1.16	5.98	9.04	-	-	1.07	1.01	-
Number of Funds in Peer Group		563	562	562	538	518	478	-	-	-	-	-

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 See the Important Information About This Report section of Process.
 Values in () following performance represent Peer Group Percentile Rank.



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NVESTMENT	ASSETS	LAST QTR	YTD	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	SI	INCEPTION DATE	GROSS EXP	NET EXP	SCORE
nall Blend												
ClearBridge Small Cap I - LMNSX <sup>2</sup>	\$4,791,418	-5.22 (78)	6.76 (12)	14.01 (35)	9.63 (61)	1.88 (83)	7.50 (34)	9.89	01-Dec-1994	0.85	0.84	3
Russell 2000 TR USD		-5.13	2.54	8.93	7.16	2.40	6.65	-	-	-	-	-
Peer Group Median (50th Percentile)		-4.41	3.16	12.38	10.48	3.58	7.05	-	-	1.06	0.96	-
Number of Funds in Peer Group		630	626	622	604	585	496	-	-	-	-	-
al Estate												
Nuveen Real Estate Securities R6 - FREGX <sup>2</sup>	\$1,967,521	-7.77 (51)	-3.62 (51)	0.53 (44)	3.50 (50)	2.62 (55)	5.80 (43)	4.50	30-Apr-2013	0.93	0.85	4
FTSE NAREIT Equity REITs TR USD		-7.13	-2.14	2.99	5.76	2.77	5.96	-	-	-	-	-
Peer Group Median (50th Percentile)		-7.76	-3.59	0.14	3.48	2.78	5.56	-	-	1.09	0.98	-
Number of Funds in Peer Group		256	254	253	237	232	196	-	-	-	-	-
eign Large Blend												
MFS Intl Diversification R6 - MDIZX <sup>2</sup>	\$4,407,117	-4.83 (56)	5.14 (60)	20.63 (72)	2.24 (80)	3.85 (19)	4.98 (8)	4.34	02-Oct-2017	0.74	0.73	4
MSCI ACWI Ex USA NR USD		-3.77	5.34	20.39	3.74	2.58	3.35	-	-	-	-	-
Peer Group Median (50th Percentile)		-4.69	5.80	23.47	4.36	2.84	3.63	-	-	1.00	0.89	-
Number of Funds in Peer Group		757	746	739	695	655	516	-	-	-	-	-
reign Large Growth												
American Funds Europacific Growth R6 - RERGX <sup>2</sup>	\$4,687,749	-6.33 (22)	5.15 (29)	19.64 (34)	0.08 (37)	3.11 (40)	4.64 (36)	7.23	01-May-2009	0.47	0.47	5
MSCI ACWI Ex USA Growth NR USD		-7.31	2.61	15.84	-1.86	2.54	3.92	-	-	-	-	-
Peer Group Median (50th Percentile)		-7.81	4.03	18.42	-0.90	2.70	4.08	-	-	1.07	0.97	-
Number of Funds in Peer Group		436	436	436	409	387	325	-	-	-	-	-

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 Values in () following performance represent Peer Group Percentile Rank.



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NVESTMENT	ASSETS	LAST QTR	YTD	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	SI	INCEPTION DATE	GROSS EXP	NET EXP	SCORE
obal Large-Stock Growth												
American Funds New Perspective R6 - RNPGX <sup>2</sup>	\$9,103,795	-4.36 (23)	12.17 (34)	21.70 (33)	4.92 (20)	8.36 (13)	9.82 (9)	12.00	01-May-2009	0.41	0.41	5
MSCI ACWI Large Cap Growth NR USD		-4.87	20.16	25.48	4.16	9.21	10.22	-	-	-	-	-
Peer Group Median (50th Percentile)		-5.33	10.21	20.17	2.44	6.11	8.34	-	-	1.16	0.99	-
Number of Funds in Peer Group		364	361	359	332	300	240	-	-	-	-	-
termediate Core-Plus Bond												
Western Asset Core Plus Bond IS - WAPSX <sup>2</sup>	\$6,569,610	-5.25 (99)	-2.25 (90)	0.93 (57)	-7.05 (99)	-0.71 (89)	1.50 (35)	3.90	04-Aug-2008	0.42	0.42	3
Bloomberg US Agg Bond TR USD		-3.23	-1.21	0.64	-5.21	0.10	1.13	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.03	-0.69	1.16	-4.81	0.20	1.30	-	-	0.75	0.64	-
Number of Funds in Peer Group		641	635	631	578	554	477	-	-	-	-	-
gh Yield Bond												
PGIM High Yield R6 - PHYQX <sup>2</sup>	\$2,926,873	0.37 (62)	5.04 (60)	8.90 (70)	1.61 (50)	3.11 (21)	4.49 (6)	5.31	31-Oct-2011	0.38	0.38	5
ICE BofA US High Yield TR USD		0.53	5.97	10.19	1.82	2.80	4.16	-	-	-	-	-
Peer Group Median (50th Percentile)		0.52	5.27	9.62	1.60	2.38	3.43	-	-	0.95	0.78	-
Number of Funds in Peer Group		705	695	692	651	624	532	-	-	-	-	-
oney Market-Taxable												
Vanguard Treasury Money Market Investor - VUSXX	\$4,011,191	1.30 (18)	3.66 (10)	4.55 (14)	1.72 (13)	1.66 (4)	1.06 (2)	2.34	14-Dec-1992	0.09	0.09	5
ICE BofA USD 3M Dep OR CM TR USD		1.33	3.69	4.54	1.70	1.86	1.31	-	-	-	-	-
Peer Group Median (50th Percentile)		1.26	3.49	4.34	1.61	1.49	0.89	-	-	0.36	0.34	-
Number of Funds in Peer Group		588	582	580	533	501	389					

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INVESTMENT	ASSETS	LAST QTR	YTD	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	SI	INCEPTION DATE	GROSS EXP	NET EXP	SCORE
arget-Date 2000-2010												
American Funds 2010 Trgt Date Retire R6 - RFTTX <sup>2</sup>	\$1,446,705	-2.41 (38)	0.92 (91)	7.31 (43)	2.03 (1)	3.74 (4)	4.76 (1)	6.80	13-Jul-2009	0.28	0.28	5
S&P Target Date 2010 TR USD		-2.62	3.14	8.30	1.03	3.09	4.09	-	-	-	-	-
Peer Group Median (50th Percentile)		-2.51	2.35	6.99	0.47	2.74	4.03	-	-	0.45	0.43	-
Number of Funds in Peer Group		123	114	114	110	110	72	-	-	-	-	-
arget Date 2015												
American Funds 2015 Trgt Date Retire R6 - RFJTX <sup>2</sup>	\$2,167,843	-2.55 (24)	1.42 (91)	8.21 (49)	2.32 (2)	3.97 (4)	5.10 (2)	7.25	13-Jul-2009	0.30	0.30	5
S&P Target Date 2015 TR USD		-2.66	3.44	8.81	1.57	3.32	4.58	-	-	-	-	-
Peer Group Median (50th Percentile)		-2.79	2.98	8.18	1.00	3.07	4.52	-	-	0.67	0.50	-
Number of Funds in Peer Group		127	118	118	111	111	65	-	-	-	-	-
arget Date 2020												
American Funds 2020 Trgt Date Retire R6 - RRCTX <sup>2</sup>	\$3,460,529	-2.74 (26)	1.80 (90)	8.83 (52)	2.32 (8)	4.11 (6)	5.53 (3)	7.86	13-Jul-2009	0.30	0.30	5
S&P Target Date 2020 TR USD		-2.73	3.96	9.96	1.91	3.44	4.95	-	-	-	-	-
Peer Group Median (50th Percentile)		-2.95	3.39	8.86	1.37	3.31	4.74	-	-	0.66	0.54	-
Number of Funds in Peer Group		155	146	146	139	139	89	-	-	-	-	-
arget Date 2025												
American Funds 2025 Trgt Date Retire R6 - RFDTX <sup>2</sup>	\$5,888,373	-3.00 (35)	2.73 (82)	10.07 (42)	2.61 (13)	4.63 (3)	6.24 (2)	8.82	13-Jul-2009	0.32	0.32	5
S&P Target Date 2025 TR USD		-2.80	4.35	10.97	3.03	4.02	5.56	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.17	3.74	9.90	1.71	3.56	5.05	-	-	0.72	0.58	-
Number of Funds in Peer Group		219	210	210	203	191	142	-	-	-	-	-

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INVESTMENT	ASSETS	LAST QTR	YTD	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	SI	INCEPTION DATE	GROSS EXP	NET EXP	SCORE
arget Date 2030												
American Funds 2030 Trgt Date Retire R6 - RFETX <sup>2</sup>	\$7,765,044	-3.18 (30)	4.32 (61)	12.16 (34)	3.46 (12)	5.15 (3)	7.05 (1)	9.58	13-Jul-2009	0.33	0.33	5
S&P Target Date 2030 TR USD		-2.98	5.30	12.96	4.08	4.51	6.14	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.44	4.74	11.72	2.75	4.07	5.74	-	-	0.72	0.59	-
Number of Funds in Peer Group		222	213	212	205	186	134	-	-	-	-	-
arget Date 2035												
American Funds 2035 Trgt Date Retire R6 - RFFTX <sup>2</sup>	\$6,212,153	-3.29 (26)	5.79 (54)	14.53 (30)	4.63 (15)	6.01 (1)	7.89 (1)	10.20	13-Jul-2009	0.35	0.35	5
S&P Target Date 2035 TR USD		-3.14	6.34	15.18	5.24	5.07	6.72	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.59	5.83	14.01	4.00	4.69	6.35	-	-	0.76	0.60	-
Number of Funds in Peer Group		218	209	203	196	185	136	-	-	-	-	-
arget Date 2040												
American Funds 2040 Trgt Date Retire R6 - RFGTX <sup>2</sup>	\$6,392,627	-3.49 (31)	7.25 (35)	16.70 (23)	5.30 (33)	6.46 (1)	8.25 (1)	9.92	27-Jul-2009	0.36	0.36	5
S&P Target Date 2040 TR USD		-3.23	7.23	17.06	6.16	5.53	7.15	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.68	6.93	15.96	4.99	5.15	6.81	-	-	0.83	0.64	-
Number of Funds in Peer Group		216	207	207	199	186	134	-	-	-	-	-
arget Date 2045												
American Funds 2045 Trgt Date Retire R6 - RFHTX <sup>2</sup>	\$5,563,700	-3.57 (26)	7.73 (41)	17.33 (46)	5.39 (61)	6.52 (2)	8.37 (1)	10.58	13-Jul-2009	0.37	0.37	4
S&P Target Date 2045 TR USD		-3.33	7.79	18.32	6.72	5.81	7.41	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.78	7.51	17.21	5.65	5.50	7.06	-	-	0.85	0.62	-
Number of Funds in Peer Group		212	203	203	196	185	136	-	-	-	-	-

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NVESTMENT	ASSETS	LAST QTR	YTD	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	SI	INCEPTION DATE	GROSS EXP	NET EXP	SCORE
rget Date 2050												
American Funds 2050 Trgt Date Retire R6 - RFITX <sup>2</sup>	\$5,742,918	-3.58 (25)	8.16 (34)	17.77 (49)	5.28 (74)	6.49 (3)	8.40 (1)	10.61	13-Jul-2009	0.38	0.38	4
S&P Target Date 2050 TR USD		-3.36	8.03	18.84	7.01	5.93	7.60	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.85	7.77	17.71	5.79	5.59	7.17	-	-	0.87	0.63	-
Number of Funds in Peer Group		213	204	204	197	186	134	-	-	-	-	-
rget Date 2055												
American Funds 2055 Trgt Date Retire R6 - RFKTX	\$5,312,673	-3.64 (30)	8.56 (25)	18.14 (41)	5.16 (81)	6.41 (5)	8.35 (1)	9.51	01-Feb-2010	0.38	0.38	4
S&P Target Date 2055 TR USD		-3.36	8.04	18.97	7.12	5.98	7.68	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.87	7.94	17.99	5.89	5.62	7.19	-	-	0.89	0.64	-
Number of Funds in Peer Group		212	203	203	196	185	123	-	-	-	-	-
rget-Date 2060												
American Funds 2060 Trgt Date Retire R6 - RFUTX <sup>2</sup>	\$1,694,777	-3.62 (28)	8.67 (23)	18.17 (41)	5.12 (83)	6.37 (7)	- (-)	7.72	27-Mar-2015	0.38	0.38	4
S&P Target Date 2060+ TR USD		-3.37	8.14	19.09	7.09	6.00	7.74	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.86	7.97	17.98	5.97	5.61	7.10	-	-	0.98	0.64	-
Number of Funds in Peer Group		212	203	203	191	174	8	-	-	-	-	-
rget-Date 2065+												
American Funds 2065 Trgt Date Retire R6 - RFVTX <sup>2</sup>	\$11,706	-3.61 (27)	8.67 (26)	18.23 (48)	5.15 (72)	- (-)	- (-)	12.40	27-Mar-2020	0.38	0.38	3
S&P Target Date 2060+ TR USD		-3.37	8.14	19.09	7.09	6.00	7.74	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.85	8.10	18.14	5.81	5.78	-	-	-	1.13	0.64	-
Number of Funds in Peer Group		204	175	158	111	9	0	-	-	-	-	-

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PASSIVE FUND ASSETS - \$21,719,383

INVESTMENT	ASSETS	LAST QTR	YTD	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	SI	INCEPTION DATE	GROSS EXP	NET EXP	SCORE
Large Blend												
Vanguard Institutional Index Instl Pl - VIIIX <sup>2</sup>	\$21,719,383	-3.27 (50)	13.05 (24)	21.60 (29)	10.13 (29)	9.90 (16)	11.90 (8)	8.10	07-Jul-1997	0.02	0.02	4
S&P 500 TR USD		-3.27	13.07	21.62	10.15	9.92	11.91	10.71	-	-	-	-
Russell 1000 TR USD		-3.15	13.01	21.19	9.53	9.63	11.63	-	-	-	-	-
Peer Group Median (50th Percentile)		-3.28	11.28	20.30	9.35	8.76	10.55	-	-	0.79	0.72	-
Number of Funds in Peer Group		1495	1458	1441	1321	1238	1064	-	-	-	-	-

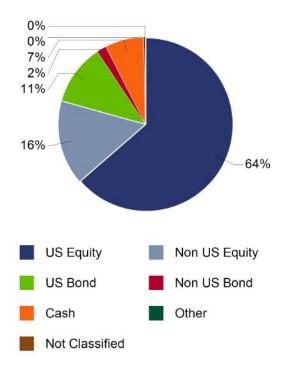
(1) Fund was re-categorized following UBS assessment of investment style.
 (2) Results shown for periods of time prior to INCEPTION DATE include pre-Inception Returns. Note however that SI ("Since Inception Returns") always reflect results for the actual share class and thus do not include pre-Inception Returns. Please see the Important Information About This Report section for details.
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## Cobb County Asset Allocation

INVESTMENT	ASSETS	% OF ASSETS
Total Plan Assets	\$161,691,628	100.00%
Large Blend	\$31,140,593	19.26%
American Funds Washington Mutual R6 - RWMGX	\$9,421,210	5.83%
Vanguard Institutional Index Instl Pl - VIIIX	\$21,719,383	13.43%
Large Growth	\$30,867,831	19.09%
JPMorgan Large Cap Growth R6 - JLGMX	\$30,867,831	19.09%
Mid-Cap Value	\$2,833,042	1.75%
Victory Sycamore Established Value R6 - VEVRX	\$2,833,042	1.75%
Mid-Cap Growth	\$6,725,840	4.16%
Delaware Ivy Mid Cap Growth R6 - IGRFX	\$6,725,840	4.16%
Small Blend	\$4,791,418	2.96%
ClearBridge Small Cap I - LMNSX	\$4,791,418	2.96%
Real Estate	\$1,967,521	1.22%
Nuveen Real Estate Securities R6 - FREGX	\$1,967,521	1.22%
Foreign Large Blend	\$4,407,117	2.73%
MFS Intl Diversification R6 - MDIZX	\$4,407,117	2.73%
Foreign Large Growth	\$4,687,749	2.90%
American Funds Europacific Growth R6 - RERGX	\$4,687,749	2.90%
Global Large-Stock Growth	\$9,103,795	5.63%
American Funds New Perspective R6 - RNPGX	\$9,103,795	5.63%

% of Assets



% Allocation Pie Chart represents composite underlying holdings of all funds in the plan. See the Important Information About this Report section for definitions of each holdings category.



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### Cobb County Asset Allocation

INVESTMENT	ASSETS	% OF ASSETS
Intermediate Core-Plus Bond	\$6,569,610	4.06%
Western Asset Core Plus Bond IS - WAPSX	\$6,569,610	4.06%
High Yield Bond	\$2,926,873	1.81%
PGIM High Yield R6 - PHYQX	\$2,926,873	1.81%
Money Market-Taxable	\$4,011,191	2.48%
Vanguard Treasury Money Market Investor - VUSXX	\$4,011,191	2.48%
Target Date	\$51,659,048	31.95%
American Funds 2010 Trgt Date Retire R6 - RFTTX	\$1,446,705	0.89%
American Funds 2015 Trgt Date Retire R6 - RFJTX	\$2,167,843	1.34%
American Funds 2020 Trgt Date Retire R6 - RRCTX	\$3,460,529	2.14%
American Funds 2025 Trgt Date Retire R6 - RFDTX	\$5,888,373	3.64%
American Funds 2030 Trgt Date Retire R6 - RFETX	\$7,765,044	4.80%
American Funds 2035 Trgt Date Retire R6 - RFFTX	\$6,212,153	3.84%
American Funds 2040 Trgt Date Retire R6 - RFGTX	\$6,392,627	3.95%
American Funds 2045 Trgt Date Retire R6 - RFHTX	\$5,563,700	3.44%
American Funds 2050 Trgt Date Retire R6 - RFITX	\$5,742,918	3.55%
American Funds 2055 Trgt Date Retire R6 - RFKTX	\$5,312,673	3.29%
American Funds 2060 Trgt Date Retire R6 - RFUTX	\$1,694,777	1.05%
American Funds 2065 Trgt Date Retire R6 - RFVTX	\$11,706	0.01%

% Allocation Pie Chart represents composite underlying holdings of all funds in the plan. See the Important Information About this Report section for definitions of each holdings category.



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#### U.S. Equity Style

	VALUE		BLEND		GROWTH		
LARGE			American Funds Washington Mutual R6 Vanguard Institutional Index Instl Pl	\$9,421,210 \$ \$21,719,383		\$30,867,831	5
MEDIUM	Victory Sycamore Established Value \$2,833 R6	,042 5			Delaware Ivy Mid Cap Growth R6	\$6,725,840	4
SMALL			ClearBridge Small Cap I	\$4,791,418			

The vertical axis of equity funds shows the market capitalization of the stocks owned and the horizontal axis shows the investment style. Style box content includes: Fund Name, Assets, and Current Score.

#### Foreign/World Equity Style

	VALUE	BLEND		GROWTH				
LARGE		MFS Intl Diversification R6	\$4,407,117 4	American Funds Europacific Growth R6	\$4,687,749 5			
MEDIUM								
SMALL								

The vertical axis of equity funds shows the market capitalization of the stocks owned and the horizontal axis shows the investment style. Style box content includes: Fund Name, Assets, and Current Score.

Refer to the Important Information About this Report section for Portfolio Style box definitions.



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#### Fixed Income Style

	LIMITED	MODERATE	EXTENSIVE
HIGH			
MEDIUM		Western Asset Core Plus Bond IS \$6,569,610 3	
LOW	PGIM High Yield R6 \$2,926,873 5		

The vertical axis of fixed income funds shows the average credit quality of the bonds owned, and the horizontal axis shows interest rate sensitivity as measured by a bond's duration. Style box content includes: Fund Name, Assets, and Current Score.

#### **Other Styles**

TARGET DAT	E FUNDS	ASSET ALLOCATION	SPECIALTY		
Target Date Series	\$51,659,048 -		Nuveen Real Estate Securities R6	\$1,967,521	4

Target Date, Asset Allocation, and Specialty Asset Category boxes have been segregated from the traditional Equity Style box to distinguish funds assigned to them. Multisector funds are typically not categorized within the Morningstar StyleBox.

Style box content includes: Fund Name, Assets, and Current Score.

Funds not included in the style charts American Funds New Perspective R6 Vanguard Treasury Money Market Investor

Refer to the Important Information About this Report section for Portfolio Style box definitions.

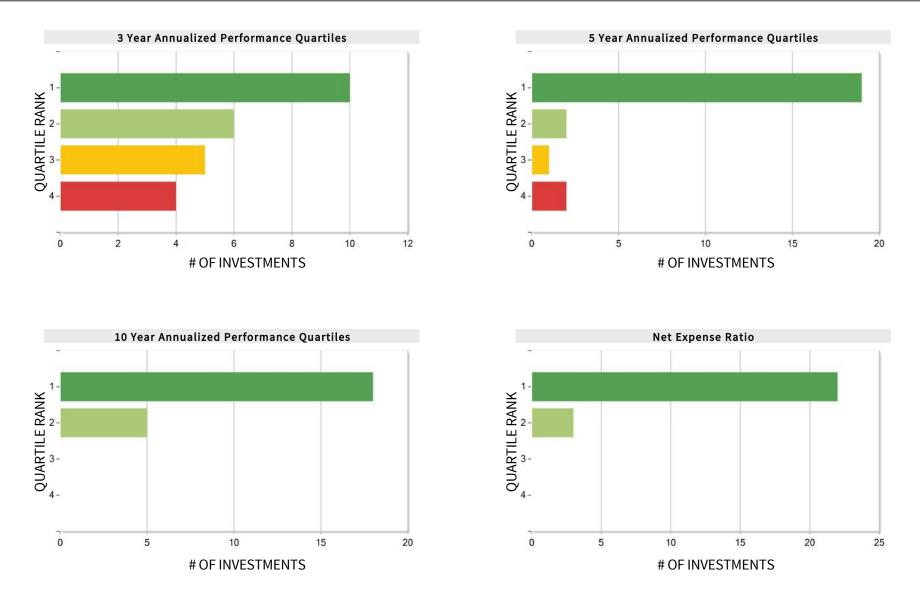


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### Cobb County Performance and Net Expense Ratio Quartiles



Please note: The performance quartile charts represent the number of funds in each peer group quartile for each respective metric and include all funds displayed in the report, including all current funds, proposed funds, funds on watch, and funds to be removed, provided performance history is available.



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# Cobb County **Investment Fee Analysis**

CATEGORY	INVESTMENT	ASSETS (\$)	ASSETS (%)	NET EXP (%)	NET EXP (\$)	PEER MEDIAN NET EXP (%)
Large Blend	American Funds Washington Mutual R6 - RWMGX	\$9,421,210	5.8%	0.27%	\$25,437	0.72%
Large Blend	Vanguard Institutional Index Instl Pl - VIIIX	\$21,719,383	13.4%	0.02%	\$4,344	0.72%
Large Growth	JPMorgan Large Cap Growth R6 - JLGMX	\$30,867,831	19.1%	0.44%	\$135,818	0.87%
Mid-Cap Value	Victory Sycamore Established Value R6 - VEVRX	\$2,833,042	1.8%	0.54%	\$15,298	0.90%
Mid-Cap Growth	Delaware Ivy Mid Cap Growth R6 - IGRFX	\$6,725,840	4.2%	0.69%	\$46,408	1.01%
Small Blend	ClearBridge Small Cap I - LMNSX	\$4,791,418	3.0%	0.84%	\$40,248	0.96%
Real Estate	Nuveen Real Estate Securities R6 - FREGX	\$1,967,521	1.2%	0.85%	\$16,724	0.98%
Foreign Large Blend	MFS Intl Diversification R6 - MDIZX	\$4,407,117	2.7%	0.73%	\$32,172	0.89%
Foreign Large Growth	American Funds Europacific Growth R6 - RERGX	\$4,687,749	2.9%	0.47%	\$22,032	0.97%
Global Large-Stock Growth	American Funds New Perspective R6 - RNPGX	\$9,103,795	5.6%	0.41%	\$37,326	0.99%
Intermediate Core-Plus Bond	Western Asset Core Plus Bond IS - WAPSX	\$6,569,610	4.1%	0.42%	\$27,592	0.64%
High Yield Bond	PGIM High Yield R6 - PHYQX	\$2,926,873	1.8%	0.38%	\$11,122	0.78%
Money Market-Taxable	Vanguard Treasury Money Market Investor - VUSXX	\$4,011,191	2.5%	0.09%	\$3,610	0.34%
Target-Date 2000-2010	American Funds 2010 Trgt Date Retire R6 - RFTTX	\$1,446,705	0.9%	0.28%	\$4,051	0.43%
Target Date 2015	American Funds 2015 Trgt Date Retire R6 - RFJTX	\$2,167,843	1.3%	0.30%	\$6,504	0.50%
Target Date 2020	American Funds 2020 Trgt Date Retire R6 - RRCTX	\$3,460,529	2.1%	0.30%	\$10,382	0.54%
Target Date 2025	American Funds 2025 Trgt Date Retire R6 - RFDTX	\$5,888,373	3.6%	0.32%	\$18,843	0.58%
Target Date 2030	American Funds 2030 Trgt Date Retire R6 - RFETX	\$7,765,044	4.8%	0.33%	\$25,625	0.59%
Target Date 2035	American Funds 2035 Trgt Date Retire R6 - RFFTX	\$6,212,153	3.8%	0.35%	\$21,743	0.60%
Target Date 2040	American Funds 2040 Trgt Date Retire R6 - RFGTX	\$6,392,627	4.0%	0.36%	\$23,013	0.64%
Target Date 2045	American Funds 2045 Trgt Date Retire R6 - RFHTX	\$5,563,700	3.4%	0.37%	\$20,586	0.62%
Target Date 2050	American Funds 2050 Trgt Date Retire R6 - RFITX	\$5,742,918	3.6%	0.38%	\$21,823	0.63%
Target Date 2055	American Funds 2055 Trgt Date Retire R6 - RFKTX	\$5,312,673	3.3%	0.38%	\$20,188	0.64%
Target-Date 2060	American Funds 2060 Trgt Date Retire R6 - RFUTX	\$1,694,777	1.0%	0.38%	\$6,440	0.64%
Target-Date 2065+	American Funds 2065 Trgt Date Retire R6 - RFVTX	\$11,706	0.0%	0.38%	\$44	0.64%

(1) The net expense ratio for Core Assets is the weighted average of each Core Asset investment's individual expense ratio (excluding custom fund assets).

 (2) Fund was re-categorized following UBS assessment of investment style.
 (3) This investment or strategy is not available through UBS. Please see "Investment Eligibility" and "Non-Program Investments Displayed in this Report" sections of the "Important Information About this Report" section for details.

(4) Since your last Report, this investment option has been removed from the UBS fund eligibility list and is no longer available through UBS.



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CATEGORY	INVESTMENT		ASSETS (\$)	ASSETS (%)	NET EXP (%)	NET EXP (\$)	PEER MEDIAN NET EXP (%)
		TOTAL CORE ASSETS	\$161,691,628	100.0%	<b>0.37%</b> <sup>1</sup>	\$597,374	

(1) The net expense ratio for Core Assets is the weighted average of each Core Asset investment's individual expense ratio (excluding custom fund assets).

 (2) Fund was re-categorized following UBS assessment of investment style.
 (3) This investment or strategy is not available through UBS. Please see "Investment Eligibility" and "Non-Program Investments Displayed in this Report" sections of the "Important Information About this Report" section for details.

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#### American Funds Washington Mutual R6 - RWMGX

Family: American Funds Fund Manager: Alan N. Berro Fund Inception Date: 01-May-2009

**Quarterly Returns History** 

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-2.08	1.20	1.07	12 / 1495
YTD	5.58	-5.70	-7.43	83 / 1458
1 Year	18.35	-1.95	-2.84	67 / 1441
3 Year	11.69	2.34	2.16	10/1321
5 Year	9.07	0.31	-0.56	41 / 1238
10 Year	10.78	0.23	-0.85	44 / 1064
5 Year Up/Down	82.65 / 82.77	-12.85 / -15.50		
Since Inception	13.05	-	1.29	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns							
	2022	2021	2020	2019	2018	2017	2016
Fund	-8.18	28.90	8.08	25.93	-2.66	20.54	13.73
Peer Group	-18.11	26.76	17.41	30.17	-5.48	21.19	10.72

Category: Large Blend Benchmark: Russell 1000 TR USD Prospectus Objective: Growth and Income Home Page: www.americanfunds.com Phone: 800-421-4225

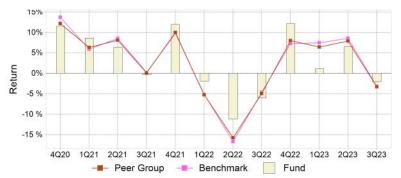
Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	26.27	7.99
Track Record (Yrs)	71.17	21.08
Turnover Ratio %	30.00	27.00
Total Net Assets (\$Millions)	153,252.00	876.00
Price/Earnings	19.42	21.87
Assets in top 10 holdings %	29.87	33.41
Number of holdings	192.00	111.00

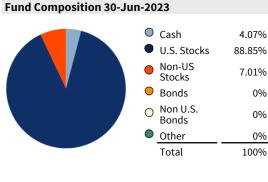
Fund	Peers
-	5.50
-	1.00
Fund	Peers
-	0.25
0.27	0.79
	-

Morningstar Overall Rating: 4.00

Overall Morningstar Rating for RWMGX as of 9/30/2023 rated against 1321 funds in its category.

Top 10 Holdings	
Broadcom Inc	6.43%
Microsoft Corp	6.19%
UnitedHealth Group Inc	3.24%
Comcast Corp Class A	2.68%
Marsh & McLennan Companies Inc	2.51%
Eli Lilly and Co	1.98%
Northrop Grumman Corp	1.80%
The Home Depot Inc	1.75%
Philip Morris International Inc	1.70%
Apple Inc	1.60%









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#### American Funds Washington Mutual R6 - RWMGX

Family: American Funds Fund Manager: Alan N. Berro Fund Inception Date: 01-May-2009 Category: Large Blend Benchmark: Russell 1000 TR USD Prospectus Objective: Growth and Income Home Page: www.americanfunds.com Phone: 800-421-4225

**Calendar Year Quartile Rankings** 

Morningstar Overall Rating: 4.00

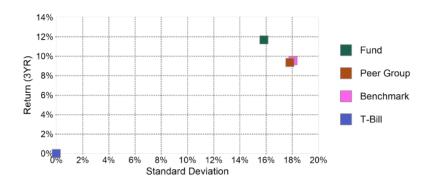
Overall Morningstar Rating for RWMGX as of 9/30/2023 rated against 1321 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.92	-0.03	-0.08
Sharpe Ratio - 3 Year		0.67	0.17	0.17
Sharpe Ratio - 5 Year		0.50	0.05	0.02
Sharpe Ratio - 10 Year		0.74	0.06	0.01
Std. Deviation - 3 Year		15.84	-1.98	-2.23
Std. Deviation - 5 Year		16.91	-2.06	-2.46
Std. Deviation - 10 Year		13.54	-1.44	-1.67
Mean - 3 Year		11.69	2.34	2.16
Mean - 5 Year		9.07	0.31	-0.56
Mean - 10 Year		10.78	0.23	-0.85
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		3.10	3.03	3.10
Alpha (Standard) - 5 Year		0.52	1.02	0.52
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		0.83	-0.14	-0.17
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		90.01	-6.76	-9.99
Sector Weightings (%)				
Basic Materials	2.55			
Consumer Cyclical	7.40			
Financial Services	14.36			
Real Estate	2.01			
Consumer Defensive	8.85			
Healthcare	17.58			
Utilities	3.01			
Communication Services	5.43			
Energy	5.44			
Industrials	11.50			

21.89

(shades indicate fund quartile ranking; numbers indicate performance at NAV)							
Тор							
2nd							
3rd							
Bottom							
	2016	2017	2018	2019	2020	2021	2022
Fund	13.73%	20.54%	-2.66%	25.93%	8.08%	28.90%	-8.18%
Peer Group 25 Percentile	12.29%	22.49%	-4.37%	31.44%	20.14%	28.52%	-14.61%
Peer Group 50 Percentile	10.72%	21.19%	-5.48%	30.17%	17.41%	26.76%	-18.11%
Peer Group 75 Percentile	8.51%	19.47%	-7.43%	27.68%	13.36%	24.64%	-19.48%
Benchmark	12.05%	21.69%	-4.78%	31.43%	20.96%	26.45%	-19.13%

#### Fund Risk/Return (3 Year)





Technology

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### Vanguard Institutional Index Instl Pl - VIIIX

Family: Vanguard Fund Manager: Donald M. Butler Fund Inception Date: 07-Jul-1997 Total Net Assets: \$241,625,000,000

Performance	Fund	Benchmark	Difference	Peers
Last Cal. QTR	-3.27	-3.15	-0.12	-3.28
YTD	13.05	13.01	0.04	11.28
1 Year	21.60	21.19	0.41	20.30
3 Year	10.13	9.53	0.60	9.35
5 Year	9.90	9.63	0.27	8.76
10 Year	11.90	11.63	0.27	10.55
Since Inception	8.10	11.76	-3.66	-

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns							
	2022	2021	2020	2019	2018	2017	2016
Fund	-18.13	28.69	18.41	31.48	-4.41	21.82	11.95
Peer Group	-18.11	26.76	17.41	30.17	-5.48	21.19	10.72

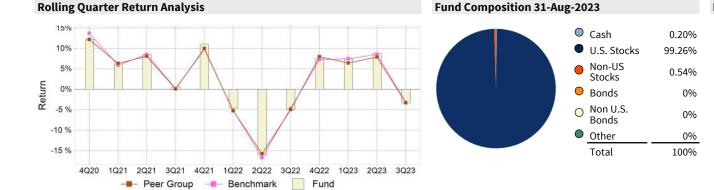
Category: Large Blend Benchmark: Russell 1000 TR USD Prospectus Objective: Growth and Income Home Page: www.vanguard.com Phone: 888-809-8102

Fund Basics 31-Aug-2023	Fund	Peers
5 Year Up:	99.25	95.50
5 Year Down:	98.24	98.27
3 Year Up:	100.92	97.14
3 Year Down:	98.73	97.36
3 Year Sharpe Ratio:	0.54	0.50
1 Year Sharpe Ratio:	1.03	0.95
3 Year R-Squared:	99.66	96.77
3 Year Beta:	0.99	0.97
3 Year Std Deviation:	17.85	17.82
1 Year Std Deviation:	15.99	16.02
3 Year Tracking Error:	1.07	3.32
1 Year Tracking Error:	0.86	3.27
Net Expense Ratio:	0.02	0.72
Gross Expense Ratio:	0.02	0.79

Morningstar Overall Rating: 5.00

Overall Morningstar Rating for VIIIX as of 9/30/2023 rated against 1321 funds in its category.

Top 10 Holdings	
Apple Inc	7.36%
Microsoft Corp	6.46%
Amazon.com Inc	3.27%
NVIDIA Corp	3.24%
Alphabet Inc Class A	2.14%
Alphabet Inc Class C	1.86%
Tesla Inc	1.84%
Meta Platforms Inc Class A	1.74%
Berkshire Hathaway Inc Class B	1.70%
Exxon Mobil Corp	1.19%







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#### JPMorgan Large Cap Growth R6 - JLGMX

Family: JPMorgan Fund Manager: Giri K Devulapally Fund Inception Date: 30-Nov-2010

**Quarterly Returns History** 

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-3.64	0.03	-0.51	49 / 1236
YTD	18.93	-2.38	-6.05	64 / 1229
1 Year	23.20	-1.27	-4.52	59 / 1222
3 Year	5.61	0.84	-2.36	39 / 1156
5 Year	13.38	4.18	0.96	3/1105
10 Year	15.32	3.44	0.84	3/1013
5 Year Up/Down	95.30 / 91.86	4.93 / -8.19		
Since Inception	15.16	-	3.46	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Yea	r Returns	;					
	2022	2021	2020	2019	2018	2017	2016
Fund	-25.21	18.79	56.42	39.39	0.57	38.37	-1.74
Peer Group	-30.85	22.15	35.38	33.11	-1.32	29.13	2.90

15% 10% 5% 0% -10% -10% -15% -20% 4Q20 1Q21 2Q21 3Q21 4Q21 1Q22 2Q22 3Q22 4Q22 1Q23 2Q23 3Q23 - Peer Group - Benchmark Fund

Category: Large Growth Benchmark: Russell 1000 Growth TR USD Prospectus Objective: Growth Home Page: www.jpmorganfunds.com Phone: 800-480-4111

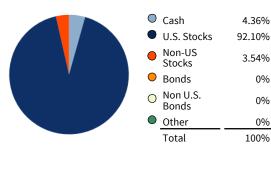
Fund Basics 31-Aug-2023	Fund	Peers
Manager Tenure (Yrs)	19.17	10.13
Track Record (Yrs)	31.58	23.25
Turnover Ratio %	42.00	34.00
Total Net Assets (\$Millions)	62,349.00	1,077.00
Price/Earnings	32.59	32.69
Assets in top 10 holdings %	50.41	49.85
Number of holdings	68.00	61.00

Fund	Peers
-	5.50
-	1.00
Fund	Peers
-	0.25
0.51	0.95
	- - Fund

Morningstar Overall Rating: 5.00

Overall Morningstar Rating for JLGMX as of 9/30/2023 rated against 1156 funds in its category.

Top 10 Holdings	
Microsoft Corp	10.13%
Amazon.com Inc	6.56%
Alphabet Inc Class C	5.42%
NVIDIA Corp	5.39%
Apple Inc	4.91%
Meta Platforms Inc Class A	4.74%
JPMorgan Prime Money Market Inst	4.35%
SPDR <sup>®</sup> S&P 500 ETF Trust	3.68%
Netflix Inc	2.66%
Eli Lilly and Co	2.56%



Fund Composition 31-Aug-2023





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#### JPMorgan Large Cap Growth R6 - JLGMX

Family: JPMorgan Fund Manager: Giri K Devulapally Fund Inception Date: 30-Nov-2010 Category: Large Growth Benchmark: Russell 1000 Growth TR USD Prospectus Objective: Growth Home Page: www.jpmorganfunds.com Phone: 800-480-4111

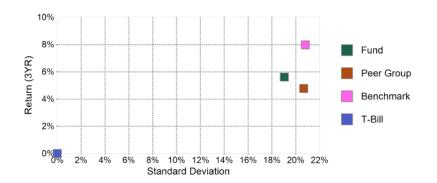
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for JLGMX as of 9/30/2023 rated against 1156 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-	Calendar Year Quar (shades indicate fund
Sharpe Ratio - 1 Year		1.08	0.00	-0.16	Top
Sharpe Ratio - 3 Year		0.29	0.04	-0.10	2nd
Sharpe Ratio - 5 Year		0.61	0.17	0.03	3rd
Sharpe Ratio - 10 Year		0.84	0.15	0.01	Bottom
Std. Deviation - 3 Year		19.05	-1.63	-1.76	
Std. Deviation - 5 Year		21.55	0.28	0.25	Fund
Std. Deviation - 10 Year		17.41	0.59	0.74	Peer Group 25 Percentil
Mean - 3 Year		5.61	0.84	-2.36	Peer Group 50 Percentil
Mean - 5 Year		13.38	4.18	0.96	Peer Group 75 Percentil
Mean - 10 Year		15.32	3.44	0.84	Benchmark
Alpha (Best Fit) - 3 Year		-	-	-	
Alpha (Standard) - 3 Year		-1.74	0.95	-1.74	
Alpha (Standard) - 5 Year		1.07	3.64	1.07	
Beta (Best Fit) - 3 Year		-	-	-	
Beta (Standard) - 3 Year		0.90	-0.08	-0.10	
R-Squared (Best Fit) - 3 Year		-	-	-	
R-Squared (Standard) - 3 Year		96.51	2.32	-3.49	
Sector Weightings (%)					Fund Risk/Return (3
Basic Materials	0.83				
Consumer Cyclical	17.75				10%
Financial Services	4.38				
Real Estate	0.09				8%
Consumer Defensive	1.77				Ŕ
Healthcare	13.27				×69 6%
Utilities	0.09				(BY R) (37 R) (3
Communication Services	14.07				Ret
Energy	1.36				2%
Industrials	3.61				
Technology	42.77				0%

Calendar Year Quartile Rankings							
(shades indicate fund quartile r	anking; nui	mbers indic	ate perfor	mance at N	AV)		
Тор							
2nd							
3rd							
Bottom							
	2016	2017	2018	2019	2020	2021	2022
Fund	-1.74%	38.37%	0.57%	39.39%	56.42%	18.79%	-25.21%
Peer Group 25 Percentile	6.52%	32.22%	1.05%	36.05%	44.14%	25.86%	-26.13%
Peer Group 50 Percentile	2.90%	29.13%	-1.32%	33.11%	35.38%	22.15%	-30.85%
Peer Group 75 Percentile	0.47%	25.61%	-3.89%	30.27%	29.37%	17.11%	-34.44%
Benchmark	7.08%	30.21%	-1.51%	36.39%	38.49%	27.60%	-29.14%

#### Fund Risk/Return (3 Year)





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### Victory Sycamore Established Value R6 - VEVRX

Family: Victory Capital Fund Manager: Gary H. Miller Fund Inception Date: 04-Mar-2014

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-4.06	-0.29	0.40	57 / 403
YTD	-0.22	-1.53	-0.76	67 / 401
1 Year	12.76	-0.52	1.71	54 / 400
3 Year	15.69	2.28	4.71	18 / 390
5 Year	8.69	3.22	3.51	7 / 382
10 Year	10.92	3.47	3.00	1/328
5 Year Up/Down	101.09 / 90.53	2.42 / -7.44		
Since Inception	10.09	-	-0.90	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Yea	r Returns	5					
	2022	2021	2020	2019	2018	2017	2016
Fund	-2.48	31.95	8.16	28.82	-9.95	16.08	21.11
Peer Group	-8.11	28.73	2.93	26.89	-13.23	13.58	18.35

Category: Mid-Cap Value Benchmark: Russell Mid Cap Value TR USD Prospectus Objective: Growth Home Page: www.VictoryFunds.com Phone: 800-539-3863

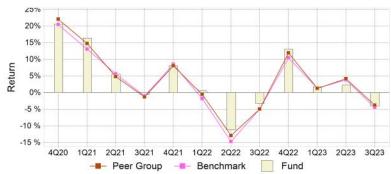
Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	25.18	10.70
Track Record (Yrs)	40.08	21.67
Turnover Ratio %	28.00	43.00
Total Net Assets (\$Millions)	16,851.00	698.00
Price/Earnings	18.12	14.73
Assets in top 10 holdings %	17.16	21.47
Number of holdings	76.00	76.00

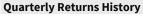
Sales Charges	Fund	Peers
Front End Load %	-	5.63
Deferred Load %	-	1.00
Expenses	Fund	Peers
12b1 Expense %	0.00	0.25
•		
Gross Expense Ratio %	0.54	1.00

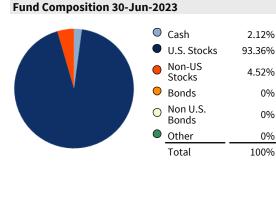
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for VEVRX as of 9/30/2023 rated against 390 funds in its category.

Top 10 Holdings	
Ross Stores Inc	1.83%
Yum Brands Inc	1.77%
Flex Ltd	1.76%
MKS Instruments Inc	1.74%
Textron Inc	1.72%
NNN REIT Inc	1.69%
Lamar Advertising Co Class A	1.69%
Quest Diagnostics Inc	1.68%
BorgWarner Inc	1.66%
Alliant Energy Corp	1.64%











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### Victory Sycamore Established Value R6 - VEVRX

Family: Victory Capital Fund Manager: Gary H. Miller Fund Inception Date: 04-Mar-2014 Category: Mid-Cap Value Benchmark: Russell Mid Cap Value TR USD Prospectus Objective: Growth Home Page: www.VictoryFunds.com Phone: 800-539-3863

**Calendar Year Quartile Rankings** 

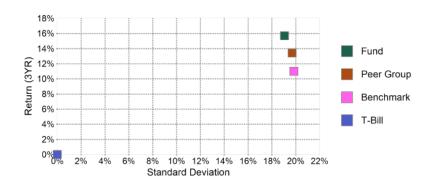
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for VEVRX as of 9/30/2023 rated against 390 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.49	0.00	0.10
Sharpe Ratio - 3 Year		0.77	0.12	0.23
Sharpe Ratio - 5 Year		0.42	0.14	0.16
Sharpe Ratio - 10 Year		0.64	0.20	0.17
Std. Deviation - 3 Year		19.07	-0.64	-0.79
Std. Deviation - 5 Year		21.22	-1.19	-1.12
Std. Deviation - 10 Year		16.49	-1.05	-0.69
Mean - 3 Year		15.69	2.28	4.71
Mean - 5 Year		8.69	3.22	3.51
Mean - 10 Year		10.92	3.47	3.00
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		4.58	2.02	4.58
Alpha (Standard) - 5 Year		3.36	2.90	3.36
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		0.95	-0.02	-0.05
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		97.47	1.61	-2.53
Sector Weightings (%)				
Basic Materials	5.11			
Consumer Cyclical	15.99			
Financial Services	12.90			
Real Estate	8.91			
Consumer Defensive	3.50			
Healthcare	8.48			
Utilities	3.31			
Communication Services	1.08			
Energy	2.91			
Industrials	24.47			
Technology	13.35			

(shades indicate fund quartile ranking; numbers indicate performance at NAV)								
Тор								
2nd								
3rd								
Bottom								
	2016	2017	2018	2019	2020	2021	2022	
Fund	21.11%	16.08%	-9.95%	28.82%	8.16%	31.95%	-2.48%	
Peer Group 25 Percentile	21.22%	15.69%	-11.27%	29.59%	6.26%	31.82%	-5.50%	
Peer Group 50 Percentile	18.35%	13.58%	-13.23%	26.89%	2.93%	28.73%	-8.11%	
Peer Group 75 Percentile	15.05%	11.64%	-15.13%	24.11%	-0.03%	25.81%	-10.42%	
Benchmark	20.00%	13.34%	-12.29%	27.06%	4.96%	28.34%	-12.03%	

#### Fund Risk/Return (3 Year)





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#### **Delaware Ivy Mid Cap Growth R6 - IGRFX**

Family: Delaware Funds by Macquarie Fund Manager: Kimberly A. Scott Fund Inception Date: 31-Jul-2014

**Quarterly Returns History** 

20%

15%

10%

5%

0%

-5 %

-10 %

-15 %

-20 %

4Q20

Return

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-11.08	-5.39	-5.86	97 / 563
YTD	5.31	-2.74	-4.57	74 / 562
1 Year	11.73	-2.17	-5.74	62 / 562
3 Year	0.94	-0.22	-1.67	52 / 538
5 Year	7.90	1.92	0.93	20 / 518
10 Year	10.15	1.11	0.21	25 / 478
5 Year Up/Down	110.13 / 106.36	12.25 / 5.16		
Since Inception	10.28	-	-0.33	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns									
	2022	2021	2020	2019	2018	2017	2016		
Fund	-30.45	16.91	48.98	38.56	0.36	27.51	6.50		
Peer Group	-28.45	12.03	38.88	33.80	-5.09	25.09	5.03		

1Q21 2Q21 3Q21 4Q21 1Q22 2Q22 3Q22

Fund

--- Peer Group --- Benchmark

Category: Mid-Cap Growth Benchmark: Russell Mid Cap Growth TR USD Prospectus Objective: Growth Home Page: www.ivvinvestments.com Phone: 800-523-1918

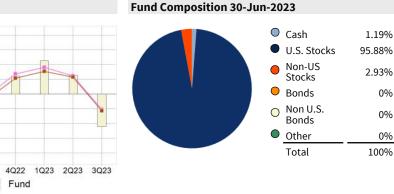
Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	22.65	11.34
Track Record (Yrs)	23.25	23.42
Turnover Ratio %	23.00	46.00
Total Net Assets (\$Millions)	5,504.00	913.00
Price/Earnings	35.44	27.13
Assets in top 10 holdings %	27.41	26.66
Number of holdings	68.00	77.00

Fund	Peers
-	5.50
-	1.00
Fund	Peers
-	0.25
0 83	1.07
0.85	1.07

Morningstar Overall Rating: 4.00

Overall Morningstar Rating for IGRFX as of 9/30/2023 rated against 538 funds in its category.

Top 10 Holdings	
CoStar Group Inc	4.60%
DexCom Inc	3.40%
Monolithic Power Systems Inc	2.90%
Pinterest Inc Class A	2.68%
MarketAxess Holdings Inc	2.51%
The Trade Desk Inc Class A	2.40%
BorgWarner Inc	2.36%
Microchip Technology Inc	2.36%
Intuitive Surgical Inc	2.15%
Pool Corp	2.05%







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### **Delaware Ivy Mid Cap Growth R6 - IGRFX**

Family: Delaware Funds by Macquarie Fund Manager: Kimberly A. Scott Fund Inception Date: 31-Jul-2014

Category: Mid-Cap Growth Benchmark: Russell Mid Cap Growth TR USD Prospectus Objective: Growth Home Page: www.ivvinvestments.com Phone: 800-523-1918

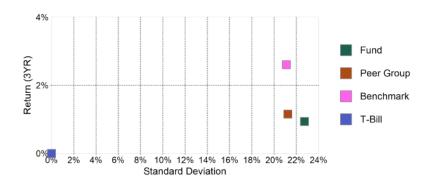
Morningstar Overall Rating: 4.00

Overall Morningstar Rating for IGRFX as of 9/30/2023 rated against 538 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-	Calendar Year Quartile Ra (shades indicate fund quartil	-
Sharpe Ratio - 1 Year		0.42	-0.16	-0.33	Top	
Sharpe Ratio - 3 Year		0.08	0.00	-0.07	2nd	
Sharpe Ratio - 5 Year		0.36	0.07	0.02	3rd	
Sharpe Ratio - 10 Year		0.55	0.04	-0.02	Bottom	
Std. Deviation - 3 Year		22.75	1.50	1.64		201
Std. Deviation - 5 Year		24.12	1.64	1.74	Fund	6.50
Std. Deviation - 10 Year		18.77	0.92	1.30	Peer Group 25 Percentile	7.90
Mean - 3 Year		0.94	-0.22	-1.67	Peer Group 50 Percentile	5.03
Mean - 5 Year		7.90	1.92	0.93	Peer Group 75 Percentile	2.15
Mean - 10 Year		10.15	1.11	0.21	Benchmark	7.33
Alpha (Best Fit) - 3 Year		-	-	-		
Alpha (Standard) - 3 Year		-1.45	-0.20	-1.45		
Alpha (Standard) - 5 Year		0.81	1.58	0.81		
Beta (Best Fit) - 3 Year		-	-	-		
Beta (Standard) - 3 Year		1.06	0.08	0.06		
R-Squared (Best Fit) - 3 Year		-	-	-		
R-Squared (Standard) - 3 Year		95.75	2.30	-4.25		
Sector Weightings (%)					Fund Risk/Return (3 Year)	
Basic Materials	1.36					
Consumer Cyclical	12.64				4%	
Financial Services	3.76				470	
Real Estate	4.65					
Consumer Defensive	1.27				R)	
Healthcare	19.12				Return (3YR) %	
Utilities	0.00				g <sup>2%</sup>	
Communication Services	3.14				Ret	
Energy	0.00					
Industrials	16.52					
Technology	37.54				0% 2% 4%	6% 8%

l quartile ranking; numbers indicate performance at NAV)								
	2016	2017	2018	2019	2020	2021	2022	
	6.50%	27.51%	0.36%	38.56%	48.98%	16.91%	-30.45%	
tile	7.90%	28.38%	-2.11%	37.48%	49.00%	16.85%	-24.33%	
tile	5.03%	25.09%	-5.09%	33.80%	38.88%	12.03%	-28.45%	
tile	2.15%	22.88%	-7.32%	30.63%	30.33%	7.86%	-33.30%	
	7.33%	25.27%	-4.75%	35.47%	35.59%	12.73%	-26.72%	

#### nd Risk/Return (3 Year)





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#### ClearBridge Small Cap I - LMNSX

Family: Franklin Templeton Investments Fund Manager: Albert Grosman Fund Inception Date: 01-Dec-1994

**Quarterly Returns History** 

Return

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-5.22	-0.81	-0.09	78 / 630
YTD	6.76	3.60	4.22	12 / 626
1 Year	14.01	1.63	5.08	35 / 622
3 Year	9.63	-0.85	2.47	61/604
5 Year	1.88	-1.70	-0.52	83 / 585
10 Year	7.50	0.45	0.85	34 / 496
5 Year Up/Down	104.39 / 104.67	5.36 / 8.66		
Since Inception	9.89	-	-0.82	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns									
	2022	2021	2020	2019	2018	2017	2016		
Fund	-20.40	19.15	3.43	30.94	-8.88	12.10	27.72		
Peer Group	-16.66	23.14	12.71	24.81	-11.84	13.47	20.82		

Category: Small Blend Benchmark: Russell 2000 TR USD Prospectus Objective: Small Company Home Page: www.leggmason.com Phone: 877-656-3863

Gross Expense Ratio %

Net Expense Ratio %

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	12.01	10.00
Track Record (Yrs)	37.75	21.75
Turnover Ratio %	36.00	38.00
Total Net Assets (\$Millions)	798.00	343.00
Price/Earnings	10.90	13.13
Assets in top 10 holdings %	18.23	16.96
Number of holdings	94.00	141.00
	<b>F</b> 4	<b>D</b>
Sales Charges	Fund	Peers
Front End Load %	-	5.50
Deferred Load %	-	1.00
Expenses	Fund	Peers
12b1 Expense %	-	0.25

0.85

0.84

1.06

0.96

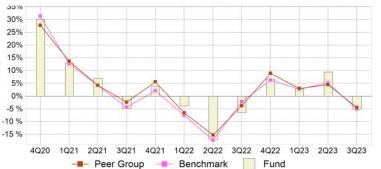
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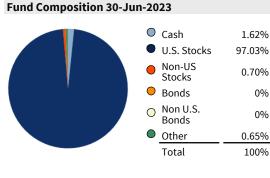
0%

Morningstar Overall Rating: 2.00

Overall Morningstar Rating for LMNSX as of 9/30/2023 rated against 604 funds in its category.

Top 10 Holdings	
Murphy USA Inc	2.11%
Textainer Group Holdings Ltd	1.95%
SMART Global Holdings Inc	1.89%
Eagle Materials Inc	1.88%
Bloomin Brands Inc	1.79%
Kite Realty Group Trust	1.78%
Century Communities Inc	1.77%
Euronet Worldwide Inc	1.77%
Terex Corp	1.76%
Itron Inc	1.53%





Equity Style % 30-Jun-2023							
	Value	Blend	Growth				
	0.00%	0.00%	0.00%	Large			
	1.40%	0.00%	1.47%	Med			
	27.03%	49.27%	20.82%	Small			

#### / 630 / 626

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#### **ClearBridge Small Cap I - LMNSX**

Family: Franklin Templeton Investments Fund Manager: Albert Grosman Fund Inception Date: 01-Dec-1994

Category: Small Blend Benchmark: Russell 2000 TR USD Prospectus Objective: Small Company Home Page: www.leggmason.com Phone: 877-656-3863

Morningstar Overall Rating: 2.00

Overall Morningstar Rating for LMNSX as of 9/30/2023 rated against 604 funds in its category.

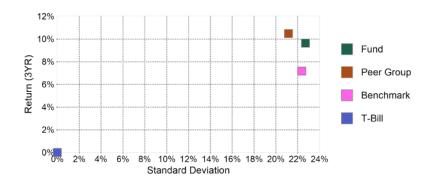
Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.49	0.05	0.20
Sharpe Ratio - 3 Year		0.44	-0.06	0.10
Sharpe Ratio - 5 Year		0.14	-0.06	-0.01
Sharpe Ratio - 10 Year		0.40	0.01	0.03
Std. Deviation - 3 Year		22.72	1.55	0.34
Std. Deviation - 5 Year		26.29	2.44	1.92
Std. Deviation - 10 Year		20.55	1.36	0.92
Mean - 3 Year		9.63	-0.85	2.47
Mean - 5 Year		1.88	-1.70	-0.52
Mean - 10 Year		7.50	0.45	0.85
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		2.48	-1.08	2.48
Alpha (Standard) - 5 Year		-0.13	-1.29	-0.13
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		0.99	0.07	-0.01
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		94.16	0.35	-5.84
Sector Weightings (%)				
Basic Materials	6.91			
Consumer Cyclical	14.05			
Financial Services	11.83			
Real Estate	7.21			
Consumer Defensive	2.63			
Healthcare	9.92			
Utilities	2.05			
Communication Services	2.77			
Energy	7.73			
Industrials	17.74			
Technology	17.16			

### **Calendar Year Quartile Rankings**

(shades indicate fund quartile ranking; numbers indicate performance at NAV)

Тор							
2nd							
3rd							
Bottom							
	2016	2017	2018	2019	2020	2021	2022
Fund	27.72%	12.10%	-8.88%	30.94%	3.43%	19.15%	-20.40%
Peer Group 25 Percentile	24.01%	15.22%	-9.67%	27.02%	18.38%	26.71%	-14.73%
Peer Group 50 Percentile	20.82%	13.47%	-11.84%	24.81%	12.71%	23.14%	-16.66%
Peer Group 75 Percentile	17.97%	11.16%	-14.17%	22.36%	8.14%	19.11%	-19.75%
Benchmark	21.31%	14.65%	-11.01%	25.52%	19.96%	14.82%	-20.44%

#### Fund Risk/Return (3 Year)





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#### Nuveen Real Estate Securities R6 - FREGX

Family: Nuveen Fund Manager: Jay L. Rosenberg Fund Inception Date: 30-Apr-2013

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-7.77	-0.01	-0.64	51/256
YTD	-3.62	-0.03	-1.48	51/254
1 Year	0.53	0.39	-2.46	44 / 253
3 Year	3.50	0.02	-2.26	50 / 237
5 Year	2.62	-0.16	-0.15	55 / 232
10 Year	5.80	0.24	-0.16	43 / 196
5 Year Up/Down	93.14 / 94.65	-3.07 / -2.12		
Since Inception	4.50	-	-6.24	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns							
	2022	2021	2020	2019	2018	2017	2016
Fund	-24.59	41.48	-5.95	25.74	-5.39	5.78	7.05
Peer Group	-26.16	41.49	-4.73	28.00	-5.41	6.06	6.04

1Q21 2Q21 3Q21 4Q21 1Q22 2Q22 3Q22

--- Peer Group --- Benchmark

Fund

Category: Real Estate Benchmark: FTSE NAREIT Equity REITs TR USD Prospectus Objective: Specialty - Real Estate Home Page: www.nuveen.com Phone: 800-257-8787

Fund Basics 31-Jul-2023	Fund	Peers
Manager Tenure (Yrs)	18.35	9.75
Track Record (Yrs)	28.25	21.00
Turnover Ratio %	78.00	35.75
Total Net Assets (\$Millions)	913.00	227.00
Price/Earnings	26.99	29.52
Assets in top 10 holdings %	48.17	54.04
Number of holdings	58.00	39.00

Fund	Peers
-	5.50
-	1.00
Fund	Peers
0.00	0.25
0.02	1.09
0.95	1.09
	Fund

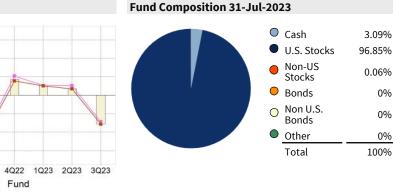
**Top 10 Holdings Prologis Inc** 9.59% Equinix Inc 6.19% Public Storage 5.41% Equity Residential 4.36% American Tower Corp 4.22% Welltower Inc 4.06% Kimco Realty Corp 4.05% VICI Properties Inc Ordinary Shares 3.99% Ventas Inc 3.18%

Healthpeak Properties Inc

Overall Morningstar Rating for FREGX as of 9/30/2023

Morningstar Overall Rating: 4.00

rated against 237 funds in its category.







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as of 09/30/2023

3.12%

**Quarterly Returns History** 

15%

10%

5%

0%

-5 %

-10 %

-15 %

4Q20

Return

#### **Nuveen Real Estate Securities R6 - FREGX**

Family: Nuveen Fund Manager: Jay L. Rosenberg Fund Inception Date: 30-Apr-2013 Category: Real Estate Benchmark: FTSE NAREIT Equity REITs TR USD Prospectus Objective: Specialty - Real Estate Home Page: www.nuveen.com Phone: 800-257-8787

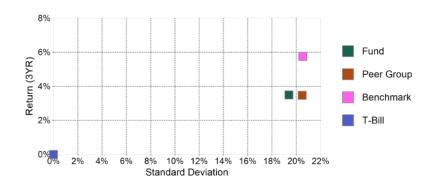
Morningstar Overall Rating: 4.00

Overall Morningstar Rating for FREGX as of 9/30/2023 rated against 237 funds in its category.

			Peers	Bench
Risk Measures		Fund	+/-	+/-
Sharpe Ratio - 1 Year		-0.14	0.01	-0.15
Sharpe Ratio - 3 Year		0.18	0.00	-0.11
Sharpe Ratio - 5 Year		0.14	-0.01	-0.02
Sharpe Ratio - 10 Year		0.36	0.01	0.00
Std. Deviation - 3 Year		19.40	-1.09	-1.14
Std. Deviation - 5 Year		19.36	-0.71	-1.62
Std. Deviation - 10 Year		16.45	-0.39	-1.11
Mean - 3 Year		3.50	0.02	-2.26
Mean - 5 Year		2.62	-0.16	-0.15
Mean - 10 Year		5.80	0.24	-0.16
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		-1.99	0.02	-1.99
Alpha (Standard) - 5 Year		-0.21	-0.19	-0.21
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		0.94	-0.04	-0.06
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		98.10	0.60	-1.90
Sector Weightings (%)				
Basic Materials	0.00			
Consumer Cyclical	0.00			
Financial Services	0.00			
Real Estate	100.00			
Consumer Defensive	0.00			
Healthcare	0.00			
Utilities	0.00			
Communication Services	0.00			
Energy	0.00			
Industrials	0.00			
Technology	0.00			

Calendar Year Quartile Rankings							
(shades indicate fund quartile	ranking; nui	nbers indio	ate perfor	mance at N	AV)		
Тор							
2nd							
3rd							
Bottom							
	2016	2017	2018	2019	2020	2021	2022
Fund	7.05%	5.78%	-5.39%	25.74%	-5.95%	41.48%	-24.59%
Peer Group 25 Percentile	7.91%	8.16%	-4.29%	30.34%	-2.75%	44.07%	-25.09%
Peer Group 50 Percentile	6.04%	6.06%	-5.41%	28.00%	-4.73%	41.49%	-26.16%
Peer Group 75 Percentile	5.07%	4.58%	-7.24%	25.18%	-7.49%	39.07%	-27.63%
Benchmark	8.52%	5.23%	-4.62%	26.00%	-8.00%	43.24%	-24.37%

#### Fund Risk/Return (3 Year)





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#### MFS Intl Diversification R6 - MDIZX

Family: MFS Fund Manager: Camille Humphries Lee Fund Inception Date: 02-Oct-2017

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-4.83	-0.14	-1.06	56 / 757
YTD	5.14	-0.66	-0.20	60 / 746
1 Year	20.63	-2.84	0.24	72 / 739
3 Year	2.24	-2.12	-1.50	80 / 695
5 Year	3.85	1.01	1.27	19 / 655
10 Year	4.98	1.35	1.63	8 / 516
5 Year Up/Down	101.34 / 96.39	-3.57 / -6.98		
Since Inception	4.34	-	-0.09	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns							
	2022	2021	2020	2019	2018	2017	2016
Fund	-17.02	7.78	15.43	26.09	-10.92	30.25	2.47
Peer Group	-15.71	10.34	10.00	22.24	-14.82	25.84	0.94

Category: Foreign Large Blend Benchmark: MSCI ACWI Ex USA NR USD Prospectus Objective: Growth Home Page: http://www.mfs.com Phone: 800-225-2606

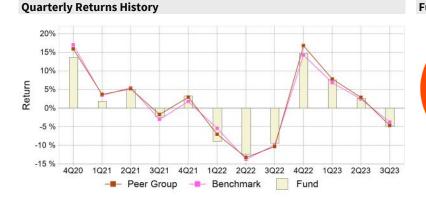
Fund Basics 31-Aug-2023	Fund	Peers
Manager Tenure (Yrs)	5.08	7.48
Track Record (Yrs)	19.00	16.46
Turnover Ratio %	7.00	31.00
Total Net Assets (\$Millions)	35,522.00	688.00
Price/Earnings	14.87	13.91
Assets in top 10 holdings %	99.77	24.10
Number of holdings	7.00	145.00

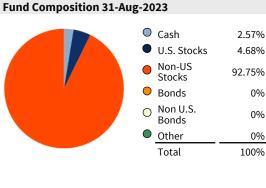
Sales Charges	Fund	Peers
Front End Load %	-	5.50
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses	Fullu	Peers
12b1 Expense %	-	0.25
•	- 0.74	
12b1 Expense %	-	0.25

Morningstar Overall Rating: 3.00

Overall Morningstar Rating for MDIZX as of 9/30/2023 rated against 695 funds in its category.

Top 10 Holdings	
MFS Research International R6	27.53%
MFS Emerging Markets Equity R6	17.26%
MFS International Large Cap Value R6	15.03%
MFS International Intrinsic Value R6	15.01%
MFS International Growth R6	14.93%
MFS International New Discovery R6	10.00%
	0.00%
	0.00%
	0.00%
	0.00%









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#### MFS Intl Diversification R6 - MDIZX

Family: MFS Fund Manager: Camille Humphries Lee Fund Inception Date: 02-Oct-2017

Category: Foreign Large Blend Benchmark: MSCI ACWI Ex USA NR USD Prospectus Objective: Growth Home Page: http://www.mfs.com Phone: 800-225-2606

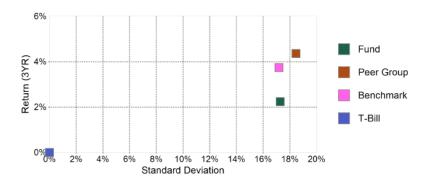
Morningstar Overall Rating: 3.00

Overall Morningstar Rating for MDIZX as of 9/30/2023 rated against 695 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-	Calendar Year Quartile Ra (shades indicate fund quartil	-
Sharpe Ratio - 1 Year		0.85	-0.12	-0.04	Тор	
Sharpe Ratio - 3 Year		0.11	-0.12	-0.09	2nd	
Sharpe Ratio - 5 Year		0.21	0.06	0.07	3rd	
Sharpe Ratio - 10 Year		0.34	0.10	0.12	Bottom	
Std. Deviation - 3 Year		17.28	-1.18	0.09		201
Std. Deviation - 5 Year		17.13	-1.45	-0.59	Fund	2.47
Std. Deviation - 10 Year		13.94	-1.18	-0.82	Peer Group 25 Percentile	2.69
Mean - 3 Year		2.24	-2.12	-1.50	Peer Group 50 Percentile	0.94
Mean - 5 Year		3.85	1.01	1.27	Peer Group 75 Percentile	-0.92
Mean - 10 Year		4.98	1.35	1.63	Benchmark	4.50
Alpha (Best Fit) - 3 Year		-	-	-		
Alpha (Standard) - 3 Year		-1.40	-2.06	-1.40		
Alpha (Standard) - 5 Year		1.25	0.91	1.25		
Beta (Best Fit) - 3 Year		-	-	-		
Beta (Standard) - 3 Year		0.98	-0.06	-0.02		
R-Squared (Best Fit) - 3 Year		-	-	-		
R-Squared (Standard) - 3 Year		95.97	1.49	-4.03		
Sector Weightings (%)					Fund Risk/Return (3 Year)	
Basic Materials	9.32					
Consumer Cyclical	10.27				6%	
Financial Services	18.20					
Real Estate	1.69					
Consumer Defensive	11.34				<u>6</u> 4%	
Healthcare	9.13				(37	
Utilities	1.95				(8 4% 3 4 W 3 4 W 3 4 W 3 4 W	
Communication Services	4.32				2%	
Energy	4.80					
Industrials	15.24					
Technology	13.74				0%	% 6%

d quartile ı	ranking; nur	mbers india	cate perfor	mance at N	IAV)		
	2016	2017	2018	2019	2020	2021	2022
	2.47%	30.25%	-10.92%	26.09%	15.43%	7.78%	-17.02%
tile	2.69%	28.08%	-13.56%	25.44%	14.11%	12.00%	-14.18%
tile	0.94%	25.84%	-14.82%	22.24%	10.00%	10.34%	-15.71%
tile	-0.92%	24.41%	-16.90%	20.70%	7.53%	7.72%	-17.92%
	4.50%	27.19%	-14.20%	21.51%	10.65%	7.82%	-16.00%

#### Fund Risk/Return (3 Year)





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#### American Funds Europacific Growth R6 - RERGX

Family: American Funds Fund Manager: Carl M. Kawaja Fund Inception Date: 01-May-2009

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-6.33	1.48	0.98	22 / 436
YTD	5.15	1.12	2.54	29 / 436
1 Year	19.64	1.22	3.80	34 / 436
3 Year	0.08	0.98	1.94	37 / 409
5 Year	3.11	0.41	0.57	40 / 387
10 Year	4.64	0.56	0.72	36 / 325
5 Year Up/Down	108.89 / 105.48	2.27 / 0.52		
Since Inception	7.23	-	3.40	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns							
	2022	2021	2020	2019	2018	2017	2016
Fund	-22.72	2.84	25.27	27.40	-14.91	31.17	1.01
Peer Group	-24.71	8.94	22.30	28.14	-14.33	31.03	-1.50

Category: Foreign Large Growth Benchmark: MSCI ACWI Ex USA Growth NR USD Prospectus Objective: Foreign Stock Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	22.35	10.47
Track Record (Yrs)	39.42	16.92
Turnover Ratio %	34.00	32.00
Total Net Assets (\$Millions)	126,563.00	995.00
Price/Earnings	19.05	22.66
Assets in top 10 holdings %	24.39	30.38
Number of holdings	363.00	72.00

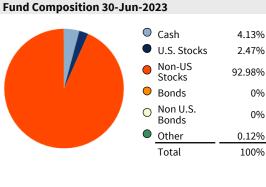
Sales Charges	Fund	Peers
Front End Load %	-	5.50
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund	<b>Peers</b> 0.25
	<b>Fund</b> - 0.47	

Morningstar Overall Rating: 3.00

Overall Morningstar Rating for RERGX as of 9/30/2023 rated against 409 funds in its category.

Top 10 Holdings	
Novo Nordisk A/S Class B	3.88%
LVMH Moet Hennessy Louis Vuitton SE	3.24%
ASML Holding NV	2.81%
Reliance Industries Ltd	2.48%
Taiwan Semiconductor Manufacturing Co Ltd	2.37%
Airbus SE	2.35%
AIA Group Ltd	1.92%
Daiichi Sankyo Co Ltd	1.91%
Canadian Natural Resources Ltd	1.86%
Flutter Entertainment PLC	1.58%
Flutter Entertainment PLC	1.58





0%

0%

Equity Style % 30-Jun-2023								
	Value	Blend	Growth					
	13.58%	25.03%	51.26%	Large				
	0.86%	3.18%	5.82%	Med				
	0.08%	0.13%	0.06%	Small				



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#### American Funds Europacific Growth R6 - RERGX

Family: American Funds Fund Manager: Carl M. Kawaja Fund Inception Date: 01-May-2009 Category: Foreign Large Growth Benchmark: MSCI ACWI Ex USA Growth NR USD **Prospectus Objective: Foreign Stock** Home Page: www.americanfunds.com Phone: 800-421-4225

**Calendar Year Quartile Rankings** 

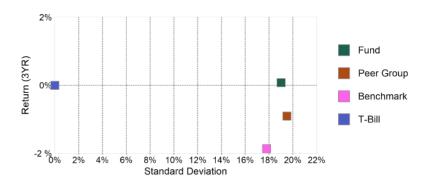
Morningstar Overall Rating: 3.00

Overall Morningstar Rating for RERGX as of 9/30/2023 rated against 409 funds in its category.

Risk Measures		Fund	Peers	Bench
			+/-	+/-
Sharpe Ratio - 1 Year		0.78	0.07	0.15
Sharpe Ratio - 3 Year		0.01	0.04	0.12
Sharpe Ratio - 5 Year		0.17	0.02	0.04
Sharpe Ratio - 10 Year		0.30	0.03	0.04
Std. Deviation - 3 Year		19.02	-0.50	1.22
Std. Deviation - 5 Year		19.41	0.01	1.54
Std. Deviation - 10 Year		15.49	-0.03	0.79
Mean - 3 Year		0.08	0.98	1.94
Mean - 5 Year		3.11	0.41	0.57
Mean - 10 Year		4.64	0.56	0.72
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		2.24	0.71	2.24
Alpha (Standard) - 5 Year		0.69	0.33	0.69
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		1.04	-0.01	0.04
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		94.91	3.43	-5.09
Sector Weightings (%)				
Basic Materials	8.66			
Consumer Cyclical	14.20			
Financial Services	12.20			
Real Estate	0.51			
Consumer Defensive	6.85			
Healthcare	13.84			
Utilities	0.98			
Communication Services	3.79			
Energy	8.20			
Industrials	14.83			
Technology	15.96			

(shades indicate fund quartile ranking; numbers indicate performance at NAV)							
Тор							
2nd							
3rd							
Bottom							
	2016	2017	2018	2019	2020	2021	2022
Fund	1.01%	31.17%	-14.91%	27.40%	25.27%	2.84%	-22.72%
Peer Group 25 Percentile	0.91%	34.87%	-11.37%	31.24%	29.18%	12.00%	-21.11%
Peer Group 50 Percentile	-1.50%	31.03%	-14.33%	28.14%	22.30%	8.94%	-24.71%
Peer Group 75 Percentile	-4.05%	27.91%	-16.54%	26.91%	16.62%	3.70%	-28.51%
Benchmark	0.12%	32.01%	-14.43%	27.34%	22.20%	5.09%	-23.05%

#### Fund Risk/Return (3 Year)





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#### American Funds New Perspective R6 - RNPGX

Family: American Funds Fund Manager: Robert W. Lovelace Fund Inception Date: 01-May-2009

**Quarterly Returns History** 

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-4.36	0.97	0.51	23 / 364
YTD	12.17	1.96	-7.99	34 / 361
1 Year	21.70	1.53	-3.78	33 / 359
3 Year	4.92	2.48	0.76	20 / 332
5 Year	8.36	2.25	-0.85	13 / 300
10 Year	9.82	1.48	-0.40	9 / 240
5 Year Up/Down	94.59 / 97.25	5.86 / 1.52		
Since Inception	12.00	-	4.83	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

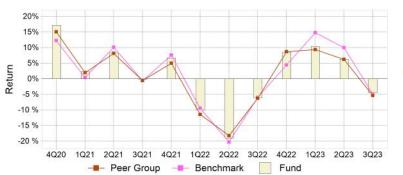
Calendar Year Returns							
	2022	2021	2020	2019	2018	2017	2016
Fund	-25.61	18.10	33.81	30.48	-5.56	29.30	2.19
Peer Group	-25.92	15.76	29.63	30.38	-6.74	30.39	1.86

Category: Global Large-Stock Growth Benchmark: MSCI ACWI Large Cap Growth NR USD **Prospectus Objective: World Stock** Home Page: www.americanfunds.com Phone: 800-421-4225

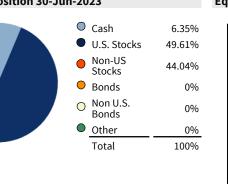
Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	22.84	9.31
Track Record (Yrs)	50.50	15.00
Turnover Ratio %	21.00	33.00
Total Net Assets (\$Millions)	115,078.00	560.00
Price/Earnings	21.65	27.61
Assets in top 10 holdings %	26.58	38.62
Number of holdings	298.00	55.00

Sales Charges	Fund	Peers
Front End Load %	-	5.50
Deferred Load %	-	1.00
Expenses	Fund	Peers
12b1 Expense %	-	0.25
Gross Expense Ratio %	0.41	1.16
Net Expense Ratio %	0.41	0.99

**Top 10 Holdings** Capital Group Central Cash Fund 6.35% Microsoft Corp 4.69% Novo Nordisk A/S Class B 2.48% Tesla Inc 2.39% Taiwan Semiconductor Manufacturing 2.29% Co Ltd Meta Platforms Inc Class A 2.15% Broadcom Inc 1.91% Eli Lilly and Co 1.51% ASML Holding NV 1.46% LVMH Moet Hennessy Louis Vuitton SE 1.33%



### Fund Composition 30-Jun-2023 Cash Non-US Stocks 0 Bonds







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as of 09/30/2023

Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RNPGX as of 9/30/2023 rated against 332 funds in its category.

#### American Funds New Perspective R6 - RNPGX

Family: American Funds Fund Manager: Robert W. Lovelace Fund Inception Date: 01-May-2009

Category: Global Large-Stock Growth Benchmark: MSCI ACWI Large Cap Growth NR USD **Prospectus Objective: World Stock** Home Page: www.americanfunds.com Phone: 800-421-4225

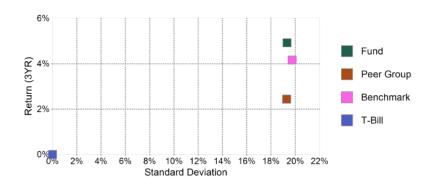
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RNPGX as of 9/30/2023 rated against 332 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-	Calendar Year Quartile Rank (shades indicate fund quartile r	-
Sharpe Ratio - 1 Year		0.99	0.08	-0.12	Top	
Sharpe Ratio - 3 Year		0.26	0.13	0.04	2nd	
Sharpe Ratio - 5 Year		0.42	0.11	-0.04	3rd	
Sharpe Ratio - 10 Year		0.61	0.10	-0.02	Bottom	
Std. Deviation - 3 Year		19.33	0.03	-0.41		201
Std. Deviation - 5 Year		19.85	0.21	-0.02	Fund	2.19
Std. Deviation - 10 Year		15.62	0.00	-0.11	Peer Group 25 Percentile	3.77
Mean - 3 Year		4.92	2.48	0.76	Peer Group 50 Percentile	1.86
Mean - 5 Year		8.36	2.25	-0.85	Peer Group 75 Percentile	-0.47
Mean - 10 Year		9.82	1.48	-0.40	Benchmark	3.36
Alpha (Best Fit) - 3 Year		-	-	-		
Alpha (Standard) - 3 Year		0.85	2.35	0.85		
Alpha (Standard) - 5 Year		-0.59	1.64	-0.59		
Beta (Best Fit) - 3 Year		-	-	-		
Beta (Standard) - 3 Year		0.95	0.03	-0.05		
R-Squared (Best Fit) - 3 Year		-	-	-		
R-Squared (Standard) - 3 Year		93.91	4.53	-6.09		
Sector Weightings (%)					Fund Risk/Return (3 Year)	
Basic Materials	5.06					
Consumer Cyclical	13.42				6%	
Financial Services	10.68					
Real Estate	0.54					
Consumer Defensive	6.10				<u>ƙ</u> 4%	
Healthcare	17.50				(37	
Utilities	1.01				(£ 4% (3,4) 2%	
Communication Services	7.46				2%	
Energy	4.42					
Industrials	12.40					
Technology	21.40				0% 2% 4%	6% 8

#### (shades indicate fund quartile ranking; numbers indicate performance at NAV) 2017 2018 2019 2021 2022 2016 2020 2.19% 29.30% -5.56% 30.48% 33.81% 18.10% -25.61% 3.77% 32.64% 35.89% 18.07% -21.68% Peer Group 25 Percentile 34.53% -4.53% Peer Group 50 Percentile 1.86% 30.39% -6.74% 30.38% 29.63% 15.76% -25.92% -9.39% 28.22% 24.26% 11.52% -30.28% Peer Group 75 Percentile -0.47% 27.53% 3.36% 30.78% -6.89% 33.55% 34.82% 18.18% -29.13%

#### Fund Risk/Return (3 Year)





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#### Western Asset Core Plus Bond IS - WAPSX

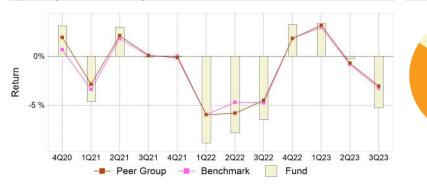
Family: Franklin Templeton Investments Fund Manager: Mark S. Lindbloom Fund Inception Date: 04-Aug-2008

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-5.25	-2.22	-2.02	99/641
YTD	-2.25	-1.56	-1.04	90 / 635
1 Year	0.93	-0.23	0.29	57 / 631
3 Year	-7.05	-2.24	-1.84	99 / 578
5 Year	-0.71	-0.91	-0.81	89 / 554
10 Year	1.50	0.20	0.37	35 / 477
5 Year Up/Down	139.69 / 146.88	32.53 / 41.38		
Since Inception	3.90	-	-2.60	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns							
	2022	2021	2020	2019	2018	2017	2016
Fund	-18.83	-1.87	9.51	12.32	-1.47	6.99	4.72
Peer Group	-13.90	-0.83	8.45	9.28	-0.80	4.25	3.79

#### **Quarterly Returns History**

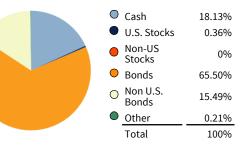


Category: Intermediate Core-Plus Bond Benchmark: Bloomberg US Agg Bond TR USD Prospectus Objective: Corporate Bond - General Home Page: www.leggmason.com Phone: 877-656-3863

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	16.76	9.84
Track Record (Yrs)	25.17	24.17
Turnover Ratio %	55.00	141.00
Total Net Assets (\$Millions)	22,574.00	1,317.00
Price/Earnings	-	12.31
Assets in top 10 holdings %	10.76	26.47
Number of holdings	3,059.00	658.00

Sales Charges	Fund	Peers
Front End Load %	-	3.75
Deferred Load %	-	1.00
_		_
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund	0.25
•	- 0.42	

#### Fund Composition 30-Jun-2023



Morningstar Overall Rating: 2.00

Overall Morningstar Rating for WAPSX as of 9/30/2023 rated against 578 funds in its category.

Fund	Peers
7.82	6.33
14.01	8.90
-	-
	7.82

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	43.77	52.65
AA %	5.25	4.39
A %	15.11	10.94
BBB %	24.32	18.17
BB %	6.43	5.42
В%	1.79	1.73
Below B %	0.94	0.55
Not Rated %	2.38	1.60

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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#### Western Asset Core Plus Bond IS - WAPSX

Family: Franklin Templeton Investments Fund Manager: Mark S. Lindbloom Fund Inception Date: 04-Aug-2008

Category: Intermediate Core-Plus Bond Benchmark: Bloomberg US Agg Bond TR USD Prospectus Objective: Corporate Bond - General Home Page: www.leggmason.com Phone: 877-656-3863

Morningstar Overall Rating: 2.00

-1.54%

-13.01%

Overall Morningstar Rating for WAPSX as of 9/30/2023 rated against 578 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-	Calendar Year Quartile Ra (shades indicate fund quartil	-
Sharpe Ratio - 1 Year		-0.28	0.13	0.20	Top	
Sharpe Ratio - 3 Year		-0.93	0.06	0.17	2nd	
Sharpe Ratio - 5 Year		-0.25	-0.04	0.01	3rd	
Sharpe Ratio - 10 Year		0.09	0.03	0.06	Bottom	
Std. Deviation - 3 Year		9.23	2.84	3.03		201
Std. Deviation - 5 Year		8.31	2.14	2.72	Fund	4.72
Std. Deviation - 10 Year		6.26	1.51	1.88	Peer Group 25 Percentile	4.72
Mean - 3 Year		-7.05	-2.24	-1.84	Peer Group 50 Percentile	3.79
Mean - 5 Year		-0.71	-0.91	-0.81	Peer Group 75 Percentile	2.88
Mean - 10 Year		1.50	0.20	0.37	Benchmark	2.65
Alpha (Best Fit) - 3 Year		-	-	-		
Alpha (Standard) - 3 Year		1.37	0.82	1.37		
Alpha (Standard) - 5 Year		-0.05	-0.22	-0.05		
Beta (Best Fit) - 3 Year		-	-	-		
Beta (Standard) - 3 Year		1.45	0.44	0.45		
R-Squared (Best Fit) - 3 Year		-	-	-		
R-Squared (Standard) - 3 Year		95.29	-0.64	-4.71		
Sector Weightings (%)					Fund Risk/Return (3 Year)	
Basic Materials	-					
Consumer Cyclical	-				2%	
Financial Services	-					
Real Estate	-				0%	
Consumer Defensive	-				ίχ	
Healthcare	-				(3 Kg) 2 -2 % -4 %	
Utilities	-				퇴 -4 %	
Communication Services	-				Rei	
Energy	-				-6 %	

#### (shades indicate fund quartile ranking; numbers indicate performance at NAV) 2017 2019 2021 2022 2016 2018 2020 4.72% 6.99% -1.47% 12.32% 9.51% -1.87% -18.83% 5.00% -0.25% 10.08% 9.36% -0.14% -12.99% Peer Group 25 Percentile 4.72% Peer Group 50 Percentile 3.79% 4.25% -0.80% 9.28% 8.45% -0.83% -13.90% 2.88% 8.34% -1.34% Peer Group 75 Percentile 3.54% -1.45% 7.27% -14.75%

0.01%

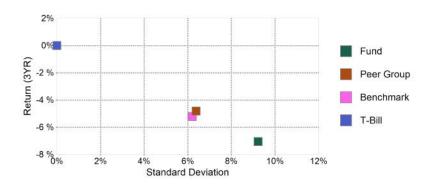
8.72%

7.51%

2.65%

3.54%

#### Fund Risk/Return (3 Year)





Industrials

Technology

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#### PGIM High Yield R6 - PHYQX

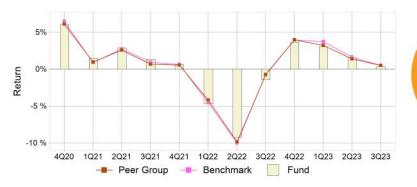
Family: PGIM Investments Fund Manager: Robert Spano Fund Inception Date: 31-Oct-2011

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	0.37	-0.15	-0.16	62 / 705
YTD	5.04	-0.23	-0.93	60 / 695
1 Year	8.90	-0.72	-1.29	70 / 692
3 Year	1.61	0.01	-0.21	50 / 651
5 Year	3.11	0.73	0.31	21/624
10 Year	4.49	1.06	0.33	6 / 532
5 Year Up/Down	102.01 / 99.32	7.02 / 1.66		
Since Inception	5.31	-	-2.24	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns									
	2022	2021	2020	2019	2018	2017	2016		
Fund	-11.55	6.47	5.72	16.26	-1.18	7.70	15.61		
Peer Group	-10.74	4.86	5.24	13.69	-2.88	6.70	13.79		

**Quarterly Returns History** 

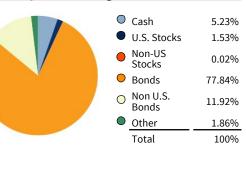


Category: High Yield Bond Benchmark: ICE BofA US High Yield TR USD Prospectus Objective: Corporate Bond - High Yield Home Page: www.prudentialfunds.com Phone: 800-225-1852

Fund Basics 31-Aug-2023	Fund	Peers
Manager Tenure (Yrs)	15.97	9.18
Track Record (Yrs)	44.50	21.00
Turnover Ratio %	38.00	38.00
Total Net Assets (\$Millions)	17,499.00	450.00
Price/Earnings	-	10.73
Assets in top 10 holdings %	12.34	11.84
Number of holdings	770.00	332.00

Sales Charges	Fund	Peers
Front End Load %	-	4.00
Deferred Load %	-	1.00
_		_
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund	<b>Peers</b> 0.25
•	- 0.38	

#### Fund Composition 31-Aug-2023



Morningstar Overall Rating: 4.00

Overall Morningstar Rating for PHYQX as of 9/30/2023 rated against 651 funds in its category.

Fixed Income Basics 31- Aug-2023	Fund	Peers
Avg. Effective Duration (Yrs)	3.65	3.45
Avg. Effective Maturity (Yrs)	5.56	5.00
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	8.84	0.39
AA %	0.04	0.00
Α%	0.00	0.00
BBB %	6.79	3.79
BB %	39.58	40.01
В %	28.99	38.82
Below B %	12.32	10.36
Not Rated %	3.44	1.57

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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#### **PGIM High Yield R6 - PHYQX**

Family: PGIM Investments Fund Manager: Robert Spano Fund Inception Date: 31-Oct-2011 Category: High Yield Bond Benchmark: ICE BofA US High Yield TR USD Prospectus Objective: Corporate Bond - High Yield Home Page: www.prudentialfunds.com Phone: 800-225-1852

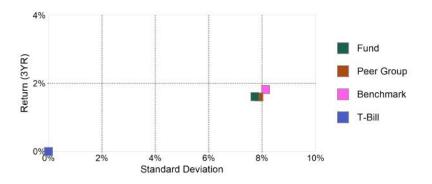
Morningstar Overall Rating: 4.00

Overall Morningstar Rating for PHYQX as of 9/30/2023 rated against 651 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.76	-0.13	-0.19
Sharpe Ratio - 3 Year		0.03	0.00	-0.03
Sharpe Ratio - 5 Year		0.19	0.07	0.03
Sharpe Ratio - 10 Year		0.47	0.12	0.04
Std. Deviation - 3 Year		7.73	-0.15	-0.40
Std. Deviation - 5 Year		9.58	0.30	0.13
Std. Deviation - 10 Year		7.50	0.14	-0.03
Mean - 3 Year		1.61	0.01	-0.21
Mean - 5 Year		3.11	0.73	0.31
Mean - 10 Year		4.49	1.06	0.33
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		-0.21	0.00	-0.21
Alpha (Standard) - 5 Year		0.31	0.65	0.31
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		0.94	-0.01	-0.06
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		98.35	0.62	-1.65
Sector Weightings (%)				
Basic Materials	0.00			
Consumer Cyclical	2.75			
Financial Services	0.00			
Real Estate	0.00			
Consumer Defensive	0.00			
Healthcare	0.00			
Utilities	6.97			
Communication Services	0.00			
Energy	90.28			
Industrials	0.00			
Technology	0.00			

Calendar Year Quartile Rankings								
(shades indicate fund quartile ranking; numbers indicate performance at NAV)								
Тор								
2nd								
3rd								
Bottom								
	2016	2017	2018	2019	2020	2021	2022	
Fund	15.61%	7.70%	-1.18%	16.26%	5.72%	6.47%	-11.55%	
Peer Group 25 Percentile	15.39%	7.53%	-1.90%	14.81%	6.51%	5.84%	-9.17%	
Peer Group 50 Percentile	13.79%	6.70%	-2.88%	13.69%	5.24%	4.86%	-10.74%	
Peer Group 75 Percentile	12.10%	5.98%	-3.75%	12.19%	3.81%	3.93%	-11.74%	
Benchmark	17.49%	7.48%	-2.26%	14.41%	6.17%	5.36%	-11.22%	

#### Fund Risk/Return (3 Year)





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## Vanguard Treasury Money Market Investor - VUSXX

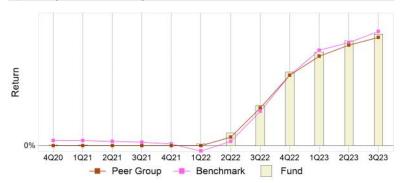
Family: Vanguard Fund Manager: Nafis T. Smith Fund Inception Date: 14-Dec-1992

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	1.30	0.04	-0.03	18 / 588
YTD	3.66	0.17	-0.03	10 / 582
1 Year	4.55	0.21	0.01	14 / 580
3 Year	1.72	0.11	0.02	13 / 533
5 Year	1.66	0.17	-0.20	4 / 501
10 Year	1.06	0.17	-0.25	2 / 389
5 Year Up/Down	87.27 / -183.34	8.49 / -81.72		
Since Inception	2.34	-	-0.37	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns								
	2022	2021	2020	2019	2018	2017	2016	
Fund	1.50	0.01	0.47	2.14	1.80	0.79	0.25	
Peer Group	1.36	0.01	0.28	1.87	1.49	0.49	0.04	

**Quarterly Returns History** 

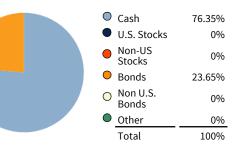


Category: Money Market-Taxable Benchmark: ICE BofA USD 3M Dep OR CM TR USD Prospectus Objective: Money Mkt - Treasury Home Page: www.vanguard.com Phone: 800-662-7447

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	5.78	16.81
Track Record (Yrs)	30.75	16.67
Turnover Ratio %	-	0.00
Total Net Assets (\$Millions)	59,076.00	27,184.00
Price/Earnings	-	-
Assets in top 10 holdings %	70.64	65.32
Number of holdings	26.00	51.00

Sales Charges	Fund	Peers
Front End Load %	-	5.75
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses	i unu	F CCI 3
12b1 Expense %	-	0.15
	- 0.09	

### Fund Composition 30-Jun-2023



Morningstar Overall Rating: -

Overall Morningstar Rating for VUSXX as of 9/30/2023 rated against 533 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	-	0.09
Avg. Effective Maturity (Yrs)	-	0.19
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	-	100.00
AA %	-	0.00
A %	-	0.00
BBB %	-	0.00
BB %	-	0.00
В%	-	0.00
Below B %	-	0.00
Not Rated %	-	0.00

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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## Vanguard Treasury Money Market Investor - VUSXX

Family: Vanguard Fund Manager: Nafis T. Smith Fund Inception Date: 14-Dec-1992 Category: Money Market-Taxable Benchmark: ICE BofA USD 3M Dep OR CM TR USD Prospectus Objective: Money Mkt - Treasury Home Page: www.vanguard.com Phone: 800-662-7447

Morningstar Overall Rating: -

Overall Morningstar Rating for VUSXX as of 9/30/2023 rated against 533 funds in its category.

Risk Measures	Fund	Peers +/-	Bench +/-	Calendar Year Quartile
Sharpe Ratio - 1 Year	0.88	1.36	-0.09	Top
Sharpe Ratio - 3 Year	0.33	0.99	0.19	2nd
Sharpe Ratio - 5 Year	-0.37	1.14	-1.13	3rd
Sharpe Ratio - 10 Year	-0.53	1.47	-1.86	Bottom
Std. Deviation - 3 Year	0.60	0.02	0.00	
Std. Deviation - 5 Year	0.49	0.02	-0.01	Fund
Std. Deviation - 10 Year	0.40	0.02	-0.01	Peer Group 25 Percentile
Mean - 3 Year	1.72	0.11	0.02	Peer Group 50 Percentile
Mean - 5 Year	1.66	0.17	-0.20	Peer Group 75 Percentile
Mean - 10 Year	1.06	0.17	-0.25	Benchmark
Alpha (Best Fit) - 3 Year	-	-	-	
Alpha (Standard) - 3 Year	0.03	0.11	0.03	
Alpha (Standard) - 5 Year	-0.11	0.16	-0.11	
Beta (Best Fit) - 3 Year	-	-	-	
Beta (Standard) - 3 Year	0.61	-0.02	-0.39	
R-Squared (Best Fit) - 3 Year	-	-	-	
R-Squared (Standard) - 3 Year	46.90	0.33	-53.10	
Sector Weightings (%)				Fund Risk/Return (3 Y
Basic Materials -				
Consumer Cyclical -				4%
Financial Services				470
Real Estate -				
Consumer Defensive -				R
Healthcare -				Return (3YR)
Utilities -				Ę <sup>2%</sup>
Communication Services -				Ret
Energy -				
Industrials -				

Calendar Year Quartile Rankings
shades indicate fund quartile ranking; numbers indicate performance at NAV)

	2016	2017	2018	2019	2020	2021	2022
	0.25%	0.79%	1.80%	2.14%	0.47%	0.01%	1.50%
e	0.15%	0.69%	1.67%	2.03%	0.35%	0.02%	1.47%
e	0.04%	0.49%	1.49%	1.87%	0.28%	0.01%	1.36%
e	0.01%	0.29%	1.28%	1.65%	0.22%	0.01%	1.22%
	0.66%	1.11%	2.08%	2.60%	1.08%	0.17%	1.21%

isk/Return (3 Year)





Technology

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## American Funds 2010 Trgt Date Retire R6 - RFTTX

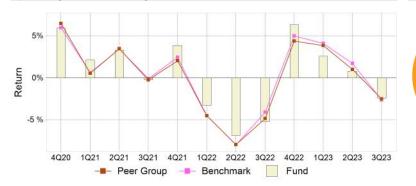
Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-2.41	0.10	0.21	38 / 123
YTD	0.92	-1.43	-2.22	91/114
1 Year	7.31	0.32	-0.99	43/114
3 Year	2.03	1.56	1.00	1/110
5 Year	3.74	1.00	0.65	4/110
10 Year	4.76	0.73	0.67	1/72
5 Year Up/Down	105.20 / 100.00	6.01/-1.32		
Since Inception	6.80	-	2.26	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns									
	2022	2021	2020	2019	2018	2017	2016		
Fund	-9.15	9.32	9.25	13.88	-2.49	10.41	7.45		
Peer Group	-12.58	6.76	10.39	14.41	-3.14	10.46	6.50		

#### **Quarterly Returns History**

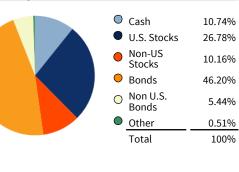


Category: Target-Date 2000-2010 Benchmark: S&P Target Date 2010 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	11.75	10.12
Track Record (Yrs)	16.58	13.92
Turnover Ratio %	18.00	29.40
Total Net Assets (\$Millions)	3,794.00	95.00
Price/Earnings	16.62	16.62
Assets in top 10 holdings %	80.55	80.55
Number of holdings	19.00	27.00

Sales Charges	Fund	Peers
Front End Load %	-	5.38
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund	<b>Peers</b> 0.25
	<b>Fund</b> - 0.28	

### Fund Composition 30-Jun-2023



Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFTTX as of 9/30/2023 rated against 110 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	5.11	5.66
Avg. Effective Maturity (Yrs)	-	7.62
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	70.64	76.87
AA %	4.35	3.67
A %	7.95	7.34
BBB %	8.11	10.04
BB %	4.76	1.01
В%	1.86	0.54
Below B %	0.69	0.19
Not Rated %	1.64	-2.64

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2010 Trgt Date Retire R6 - RFTTX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009 Category: Target-Date 2000-2010 Benchmark: S&P Target Date 2010 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

**Calendar Year Quartile Rankings** 

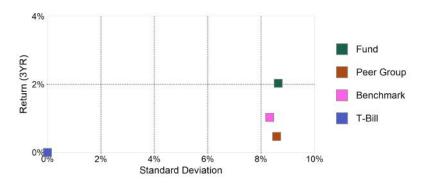
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFTTX as of 9/30/2023 rated against 110 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.36	0.04	-0.13
Sharpe Ratio - 3 Year		0.08	0.17	0.12
Sharpe Ratio - 5 Year		0.28	0.12	0.08
Sharpe Ratio - 10 Year		0.56	0.10	0.08
Std. Deviation - 3 Year		8.64	0.06	0.32
Std. Deviation - 5 Year		8.29	-0.01	0.03
Std. Deviation - 10 Year		6.68	-0.09	0.24
Mean - 3 Year		2.03	1.56	1.00
Mean - 5 Year		3.74	1.00	0.65
Mean - 10 Year		4.76	0.73	0.67
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		1.02	1.47	1.02
Alpha (Standard) - 5 Year		0.65	1.01	0.65
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		1.02	0.00	0.02
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		96.10	-1.40	-3.90
Sector Weightings (%)				
Basic Materials	4.53			
Consumer Cyclical	6.61			
Financial Services	13.92			
Real Estate	4.73			
Consumer Defensive	11.22			
Healthcare	15.63			
Utilities	5.06			
Communication Services	5.63			
Energy	7.05			
Industrials	11.91			
Technology	13.71			

(shades indicate fund quartile ranking; numbers indicate performance at NAV)							
Тор							
2nd							
3rd							
Bottom							
	2016	2017	2018	2019	2020	2021	2022
Fund	7.45%	10.41%	-2.49%	13.88%	9.25%	9.32%	-9.15%
Peer Group 25 Percentile	7.00%	11.03%	-2.81%	15.10%	10.99%	7.74%	-11.83%
Peer Group 50 Percentile	6.50%	10.46%	-3.14%	14.41%	10.39%	6.76%	-12.58%
Peer Group 75 Percentile	5.91%	9.96%	-3.58%	12.67%	9.30%	4.04%	-13.42%
Benchmark	5.82%	9.95%	-3.10%	14.30%	9.95%	6.54%	-11.44%

### Fund Risk/Return (3 Year)





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## American Funds 2015 Trgt Date Retire R6 - RFJTX

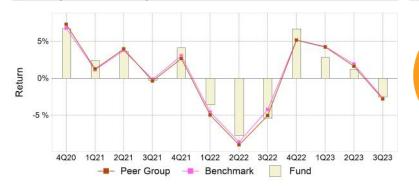
Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-2.55	0.24	0.11	24 / 127
YTD	1.42	-1.56	-2.02	91/118
1 Year	8.21	0.03	-0.60	49/118
3 Year	2.32	1.32	0.75	2/111
5 Year	3.97	0.90	0.65	4/111
10 Year	5.10	0.58	0.52	2 / 65
5 Year Up/Down	103.52 / 98.64	0.00 / -8.50		
Since Inception	7.25	-	2.29	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns							
	2022	2021	2020	2019	2018	2017	2016
Fund	-10.25	10.27	9.96	14.94	-2.72	11.19	7.55
Peer Group	-13.73	7.88	11.44	15.95	-3.90	11.78	6.88

**Quarterly Returns History** 

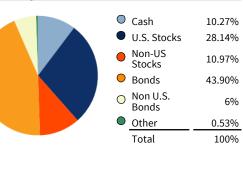


Category: Target-Date 2015 Benchmark: S&P Target Date 2015 TR USD **Prospectus Objective: Asset Allocation** Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	11.75	9.42
Track Record (Yrs)	16.58	10.08
Turnover Ratio %	17.00	28.90
Total Net Assets (\$Millions)	4,863.00	171.00
Price/Earnings	16.97	16.97
Assets in top 10 holdings %	72.00	75.89
Number of holdings	22.00	25.00

Sales Charges	Fund	Peers
Front End Load %	-	5.75
Deferred Load %	-	1.00
_		_
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund	0.25
•	- 0.30	

### Fund Composition 30-Jun-2023



Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFJTX as of 9/30/2023 rated against 111 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	5.30	5.60
Avg. Effective Maturity (Yrs)	-	7.62
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	67.44	65.18
AA %	4.18	4.18
A %	7.80	7.80
BBB %	8.66	11.13
BB %	6.54	3.40
В%	2.72	2.63
Below B %	1.10	0.70
Not Rated %	1.56	0.37

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2015 Trgt Date Retire R6 - RFJTX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009 Category: Target-Date 2015 Benchmark: S&P Target Date 2015 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

**Calendar Year Quartile Rankings** 

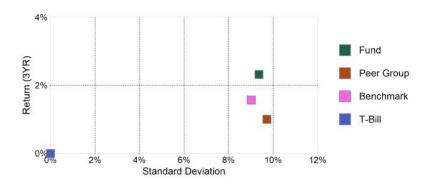
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFJTX as of 9/30/2023 rated against 111 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.44	0.02	-0.09
Sharpe Ratio - 3 Year		0.11	0.13	0.08
Sharpe Ratio - 5 Year		0.29	0.11	0.07
Sharpe Ratio - 10 Year		0.57	0.10	0.07
Std. Deviation - 3 Year		9.37	-0.36	0.34
Std. Deviation - 5 Year		9.02	-0.73	-0.11
Std. Deviation - 10 Year		7.22	-0.46	-0.01
Mean - 3 Year		2.32	1.32	0.75
Mean - 5 Year		3.97	0.90	0.65
Mean - 10 Year		5.10	0.58	0.52
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		0.75	1.30	0.75
Alpha (Standard) - 5 Year		0.67	0.96	0.67
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		1.02	-0.05	0.02
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		96.89	-1.62	-3.11
Sector Weightings (%)				
Basic Materials	4.69			
Consumer Cyclical	6.95			
Financial Services	13.52			
Real Estate	4.09			
Consumer Defensive	10.73			
Healthcare	15.83			
Utilities	4.77			
Communication Services	5.67			
Energy	6.76			
Industrials	12.19			
Technology	14.79			

(shades indicate fund quartile ranking; numbers indicate performance at NAV)							
Тор							
2nd							
3rd							
Bottom							
	2016	2017	2018	2019	2020	2021	2022
Fund	7.55%	11.19%	-2.72%	14.94%	9.96%	10.27%	-10.25%
Peer Group 25 Percentile	7.24%	12.71%	-3.41%	16.59%	12.05%	9.12%	-12.86%
Peer Group 50 Percentile	6.88%	11.78%	-3.90%	15.95%	11.44%	7.88%	-13.73%
Peer Group 75 Percentile	6.23%	10.95%	-4.42%	14.76%	9.65%	6.98%	-14.58%
Benchmark	6.56%	11.39%	-3.67%	15.40%	10.28%	8.01%	-12.16%

### Fund Risk/Return (3 Year)





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## American Funds 2020 Trgt Date Retire R6 - RRCTX

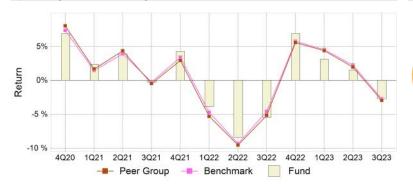
Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-2.74	0.21	-0.01	26 / 155
YTD	1.80	-1.59	-2.16	90/146
1 Year	8.83	-0.03	-1.13	52 / 146
3 Year	2.32	0.95	0.41	8 / 139
5 Year	4.11	0.80	0.67	6/139
10 Year	5.53	0.79	0.58	3 / 89
5 Year Up/Down	99.82 / 94.83	-4.60 / -10.89		
Since Inception	7.86	-	2.58	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns								
	2022	2021	2020	2019	2018	2017	2016	
Fund	-11.01	10.64	10.99	15.59	-2.69	12.87	7.05	
Peer Group	-14.47	8.85	11.73	17.21	-4.57	13.38	6.66	

#### **Quarterly Returns History**

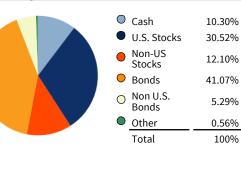


Category: Target-Date 2020 Benchmark: S&P Target Date 2020 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	11.75	10.25
Track Record (Yrs)	16.58	11.17
Turnover Ratio %	15.00	26.00
Total Net Assets (\$Millions)	15,383.00	468.00
Price/Earnings	17.40	17.40
Assets in top 10 holdings %	68.58	76.13
Number of holdings	22.00	22.00

Sales Charges	Fund	Peers
Front End Load %	-	5.50
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund -	<b>Peers</b> 0.25
	<b>Fund</b> - 0.30	

### Fund Composition 30-Jun-2023



Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RRCTX as of 9/30/2023 rated against 139 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	5.61	5.88
Avg. Effective Maturity (Yrs)	-	7.40
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	68.77	62.75
AA %	3.70	4.08
A %	7.17	8.91
BBB %	8.53	12.91
BB %	6.60	3.98
В%	2.76	2.76
Below B %	1.12	1.07
Not Rated %	1.35	0.57

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2020 Trgt Date Retire R6 - RRCTX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009 Category: Target-Date 2020 Benchmark: S&P Target Date 2020 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

**Calendar Year Quartile Rankings** 

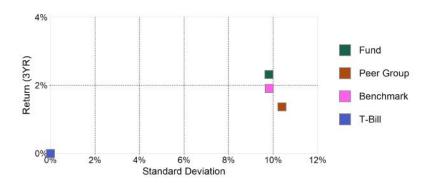
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RRCTX as of 9/30/2023 rated against 139 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.48	0.01	-0.12
Sharpe Ratio - 3 Year		0.11	0.09	0.04
Sharpe Ratio - 5 Year		0.29	0.09	0.07
Sharpe Ratio - 10 Year		0.59	0.13	0.09
Std. Deviation - 3 Year		9.82	-0.58	-0.01
Std. Deviation - 5 Year		9.52	-0.99	-0.49
Std. Deviation - 10 Year		7.73	-0.53	-0.29
Mean - 3 Year		2.32	0.95	0.41
Mean - 5 Year		4.11	0.80	0.67
Mean - 10 Year		5.53	0.79	0.58
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		0.41	0.91	0.41
Alpha (Standard) - 5 Year		0.73	0.95	0.73
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		0.99	-0.06	-0.01
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		97.70	-1.00	-2.30
Sector Weightings (%)				
Basic Materials	4.63			
Consumer Cyclical	7.43			
Financial Services	13.25			
Real Estate	3.62			
Consumer Defensive	10.37			
Healthcare	16.09			
Utilities	4.39			
Communication Services	5.81			
Energy	6.37			
Industrials	12.24			
Technology	15.81			

(shades indicate fund quartile ranking; numbers indicate performance at NAV)								
Тор								
2nd								
3rd								
Bottom								
	2016	2017	2018	2019	2020	2021	2022	
Fund	7.05%	12.87%	-2.69%	15.59%	10.99%	10.64%	-11.01%	
Peer Group 25 Percentile	7.07%	14.04%	-3.86%	18.08%	12.88%	9.82%	-13.52%	
Peer Group 50 Percentile	6.66%	13.38%	-4.57%	17.21%	11.73%	8.85%	-14.47%	
Peer Group 75 Percentile	5.93%	12.58%	-5.27%	15.65%	9.94%	8.06%	-15.18%	
Benchmark	7.22%	12.80%	-4.16%	16.52%	10.24%	8.76%	-12.81%	

### Fund Risk/Return (3 Year)





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## American Funds 2025 Trgt Date Retire R6 - RFDTX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-3.00	0.17	-0.20	35 / 219
YTD	2.73	-1.01	-1.62	82/210
1 Year	10.07	0.17	-0.90	42/210
3 Year	2.61	0.90	-0.42	13 / 203
5 Year	4.63	1.07	0.61	3/191
10 Year	6.24	1.19	0.68	2/142
5 Year Up/Down	99.98 / 96.04	-1.32 / -8.51		
Since Inception	8.82	-	3.11	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns									
	2022	2021	2020	2019	2018	2017	2016		
Fund	-12.74	11.44	13.67	17.85	-3.47	15.32	7.36		
Peer Group	-15.54	9.92	12.68	18.54	-5.37	15.07	6.89		



--- Peer Group --- Benchmark

Fund

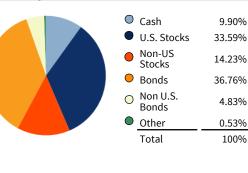
**Quarterly Returns History** 

Category: Target-Date 2025 Benchmark: S&P Target Date 2025 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	11.75	10.61
Track Record (Yrs)	16.58	13.42
Turnover Ratio %	12.00	28.00
Total Net Assets (\$Millions)	30,617.00	487.00
Price/Earnings	18.09	17.77
Assets in top 10 holdings %	62.55	81.22
Number of holdings	25.00	22.00

Sales Charges	Fund	Peers
Front End Load %	-	5.75
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund -	<b>Peers</b> 0.25
	<b>Fund</b> - 0.32	

### Fund Composition 30-Jun-2023



Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFDTX as of 9/30/2023 rated against 203 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	5.68	5.68
Avg. Effective Maturity (Yrs)	-	7.55
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	70.72	59.21
AA %	3.76	4.63
A %	7.26	9.36
BBB %	8.32	13.06
BB %	5.53	5.12
В %	2.21	2.71
Below B %	0.89	0.87
Not Rated %	1.31	0.61

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2025 Trgt Date Retire R6 - RFDTX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009 Category: Target-Date 2025 Benchmark: S&P Target Date 2025 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

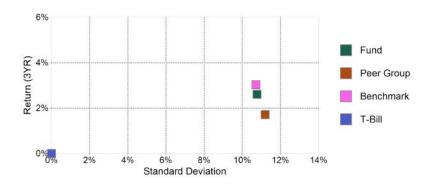
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFDTX as of 9/30/2023 rated against 203 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-	Calendar Year Quartile Ra (shades indicate fund quarti	-
Sharpe Ratio - 1 Year		0.57	0.05	-0.10	Top	
Sharpe Ratio - 3 Year		0.14	0.08	-0.03	2nd	
Sharpe Ratio - 5 Year		0.31	0.10	0.06	3rd	
Sharpe Ratio - 10 Year		0.60	0.14	0.08	Bottom	
Std. Deviation - 3 Year		10.78	-0.43	0.06	Dottom	201
Std. Deviation - 5 Year		10.79	-1.00	-0.52	Fund	7.36
Std. Deviation - 10 Year		8.80	-0.62	-0.25	Peer Group 25 Percentile	7.46
Mean - 3 Year		2.61	0.90	-0.42	Peer Group 50 Percentile	6.89
Mean - 5 Year		4.63	1.07	0.61	Peer Group 75 Percentile	6.15
Mean - 10 Year		6.24	1.19	0.68	Benchmark	7.82
Alpha (Best Fit) - 3 Year		-	-	-		1102
Alpha (Standard) - 3 Year		-0.40	0.96	-0.40		
Alpha (Standard) - 5 Year		0.68	1.12	0.68		
Beta (Best Fit) - 3 Year		-	-	-		
Beta (Standard) - 3 Year		1.00	-0.04	0.00		
R-Squared (Best Fit) - 3 Year		-	-	-		
R-Squared (Standard) - 3 Year		98.85	-0.02	-1.15		
Sector Weightings (%)					Fund Risk/Return (3 Year)	
Basic Materials	4.60					
Consumer Cyclical	8.66				6%	
Financial Services	12.64					
Real Estate	2.82					
Consumer Defensive	9.47				<u>c</u> 4%	
Healthcare	16.41				(3 K R) 2%	
Utilities	3.74				Ę	
Communication Services	6.14				ਬੇ 2%	
Energy	5.74					
Industrials	12.54					
Technology	17.23				0% 0% 2%	4%

quartile r	anking; nur	nbers indic	ate perfor	mance at N	AV)		
	2016	2017	2018	2019	2020	2021	2022
	7.36%	15.32%	-3.47%	17.85%	13.67%	11.44%	-12.74%
e	7.46%	15.80%	-4.73%	19.53%	13.65%	10.94%	-13.75%
e	6.89%	15.07%	-5.37%	18.54%	12.68%	9.92%	-15.54%
e	6.15%	14.13%	-5.99%	17.57%	10.84%	8.67%	-16.13%
	7.82%	14.55%	-5.02%	18.38%	11.22%	10.67%	-13.13%

## Fund Risk/Return (3 Year)





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## American Funds 2030 Trgt Date Retire R6 - RFETX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-3.18	0.26	-0.20	30 / 222
YTD	4.32	-0.42	-0.98	61/213
1 Year	12.16	0.44	-0.80	34 / 212
3 Year	3.46	0.71	-0.62	12 / 205
5 Year	5.15	1.08	0.64	3 / 186
10 Year	7.05	1.31	0.91	1/134
5 Year Up/Down	99.77 / 96.24	-1.54 / -7.16		
Since Inception	9.58	-	3.52	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns								
	2022	2021	2020	2019	2018	2017	2016	
Fund	-14.50	13.16	15.16	20.06	-4.16	18.40	7.71	
Peer Group	-16.35	11.70	13.70	20.79	-6.42	17.20	7.24	

#### **Quarterly Returns History**

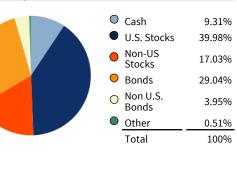


Category: Target-Date 2030 Benchmark: S&P Target Date 2030 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basic 30-Jun-202		Fund	Peers
Manager Ten	ure (Yrs)	11.75	10.25
Track Record	l (Yrs)	16.58	11.92
Turnover Rat	io %	9.00	28.75
Total Net Ass	ets (\$Millions)	40,522.00	693.50
Price/Earnin	gs	18.76	17.76
Assets in top	10 holdings %	58.07	80.92
Number of h	oldings	24.00	24.00

Sales Charges	Fund	Peers
Front End Load %	-	5.63
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses	Fullu	Peers
12b1 Expense %	-	0.25
	- 0.33	

#### Fund Composition 30-Jun-2023



Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFETX as of 9/30/2023 rated against 205 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	5.83	5.83
Avg. Effective Maturity (Yrs)	-	7.92
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Cre	edit Quality	Fund	Peers
AAA	λ%	74.62	57.04
AA	%	3.78	4.41
Α%	b	7.24	8.87
BBI	В %	7.75	12.99
BB	%	3.65	5.03
В%	Ď	1.26	4.02
Bel	ow B %	0.47	1.02
Not	t Rated %	1.23	0.49

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2030 Trgt Date Retire R6 - RFETX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009 Category: Target-Date 2030 Benchmark: S&P Target Date 2030 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

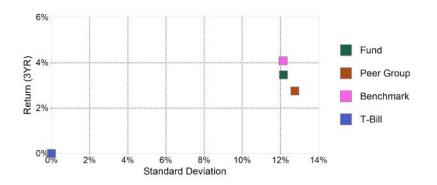
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFETX as of 9/30/2023 rated against 205 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-	Calendar Year Quar (shades indicate fund
Sharpe Ratio - 1 Year		0.69	0.07	-0.07	Top
Sharpe Ratio - 3 Year		0.20	0.06	-0.05	2nd
Sharpe Ratio - 5 Year		0.33	0.09	0.06	3rd
Sharpe Ratio - 10 Year		0.61	0.14	0.09	Bottom
Std. Deviation - 3 Year		12.17	-0.59	0.02	Dottom
Std. Deviation - 5 Year		12.41	-0.90	-0.56	Fund
Std. Deviation - 10 Year		10.17	-0.52	-0.12	Peer Group 25 Percenti
Mean - 3 Year		3.46	0.71	-0.62	Peer Group 50 Percenti
Mean - 5 Year		5.15	1.08	0.64	Peer Group 75 Percenti
Mean - 10 Year		7.05	1.31	0.91	Benchmark
Alpha (Best Fit) - 3 Year		-	-	-	
Alpha (Standard) - 3 Year		-0.59	0.79	-0.59	
Alpha (Standard) - 5 Year		0.71	1.13	0.71	
Beta (Best Fit) - 3 Year		-	-	-	
Beta (Standard) - 3 Year		1.00	-0.04	0.00	
R-Squared (Best Fit) - 3 Year		-	-	-	
R-Squared (Standard) - 3 Year		99.33	0.28	-0.67	
Sector Weightings (%)					Fund Risk/Return (3
Basic Materials	4.52				
Consumer Cyclical	10.01				6%
Financial Services	11.98				
Real Estate	2.25				
Consumer Defensive	8.59				£ 4%
Healthcare	16.56				(37
Utilities	3.18				Return (3YR) 5%
Communication Services	6.54				2%
Energy	5.24				
Industrials	12.79				
Technology	18.35				0%

artile Rankings								
d quartile ranking; numbers indicate performance at NAV)								
	2016	2017	2018	2019	2020	2021	2022	
	7.71%	18.40%	-4.16%	20.06%	15.16%	13.16%	-14.50%	
ntile	7.94%	18.17%	-5.62%	21.82%	14.61%	12.74%	-14.75%	
ntile	7.24%	17.20%	-6.42%	20.79%	13.70%	11.70%	-16.35%	
ntile	6.28%	16.33%	-7.08%	19.87%	11.87%	10.97%	-17.06%	
	8.35%	16.19%	-5.99%	20.38%	11.91%	12.61%	-13.96%	

## Fund Risk/Return (3 Year)





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## American Funds 2035 Trgt Date Retire R6 - RFFTX

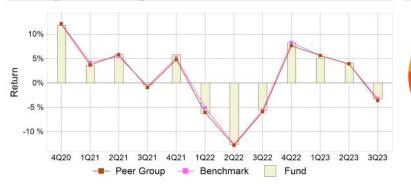
Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-3.29	0.30	-0.15	26/218
YTD	5.79	-0.04	-0.55	54 / 209
1 Year	14.53	0.52	-0.65	30 / 203
3 Year	4.63	0.63	-0.61	15 / 196
5 Year	6.01	1.32	0.94	1/185
10 Year	7.89	1.54	1.17	1/136
5 Year Up/Down	102.90 / 98.55	2.41 / -3.77		
Since Inception	10.20	-	3.81	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns							
	2022	2021	2020	2019	2018	2017	2016
Fund	-16.24	15.54	17.55	23.29	-5.14	21.04	8.00
Peer Group	-17.07	14.06	14.15	22.64	-7.36	18.82	7.63

**Quarterly Returns History** 

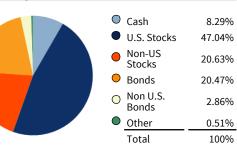


Category: Target-Date 2035 Benchmark: S&P Target Date 2035 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	11.75	10.38
Track Record (Yrs)	16.58	13.25
Turnover Ratio %	6.00	24.90
Total Net Assets (\$Millions)	36,969.00	553.00
Price/Earnings	19.05	17.64
Assets in top 10 holdings %	60.61	85.77
Number of holdings	25.00	25.00

Sales Charges	Fund	Peers
Front End Load %	-	5.75
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund -	<b>Peers</b> 0.25
	<b>Fund</b> - 0.35	

## Fund Composition 30-Jun-2023



Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFFTX as of 9/30/2023 rated against 196 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	5.86	6.03
Avg. Effective Maturity (Yrs)	-	8.21
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	76.29	54.96
AA %	3.36	4.18
Α%	6.37	9.22
BBB %	6.81	12.36
BB %	3.91	5.16
В%	1.52	3.63
Below B %	0.57	1.14
Not Rated %	1.17	0.55

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2035 Trgt Date Retire R6 - RFFTX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009 Category: Target-Date 2035 Benchmark: S&P Target Date 2035 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

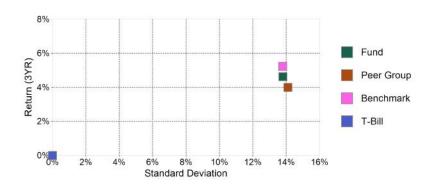
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFFTX as of 9/30/2023 rated against 196 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.81	0.08	-0.03
Sharpe Ratio - 3 Year		0.27	0.04	-0.05
Sharpe Ratio - 5 Year		0.36	0.09	0.07
Sharpe Ratio - 10 Year		0.61	0.13	0.09
Std. Deviation - 3 Year		13.81	-0.30	0.01
Std. Deviation - 5 Year		14.52	-0.48	-0.19
Std. Deviation - 10 Year		11.66	-0.35	0.09
Mean - 3 Year		4.63	0.63	-0.61
Mean - 5 Year		6.01	1.32	0.94
Mean - 10 Year		7.89	1.54	1.17
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		-0.57	0.60	-0.57
Alpha (Standard) - 5 Year		0.94	1.33	0.94
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		1.00	-0.02	0.00
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		99.30	0.18	-0.70
Sector Weightings (%)				
Basic Materials	4.54			
Consumer Cyclical	10.52			
Financial Services	11.80			
Real Estate	2.04			
Consumer Defensive	8.19			
Healthcare	16.64			
Utilities	2.91			
Communication Services	6.60			
Energy	5.02			
Industrials	12.78			
Technology	18.98			

Calendar Year Quartile Rankings									
(shades indicate fund quartile ranking; numbers indicate performance at NAV)									
Тор									
2nd									
3rd									
Bottom									
	2016	2017	2018	2019	2020	2021	2022		
Fund	8.00%	21.04%	-5.14%	23.29%	17.55%	15.54%	-16.24%		
Peer Group 25 Percentile	8.37%	19.88%	-6.58%	23.39%	16.05%	14.75%	-16.06%		
Peer Group 50 Percentile	7.63%	18.82%	-7.36%	22.64%	14.15%	14.06%	-17.07%		
Peer Group 75 Percentile	6.68%	18.00%	-7.96%	21.87%	12.92%	13.39%	-17.88%		
Benchmark	8.85%	17.78%	-6.88%	22.18%	12.79%	14.93%	-14.99%		

## Fund Risk/Return (3 Year)



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## American Funds 2040 Trgt Date Retire R6 - RFGTX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 27-Jul-2009

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-3.49	0.19	-0.26	31/216
YTD	7.25	0.32	0.02	35 / 207
1 Year	16.70	0.74	-0.36	23 / 207
3 Year	5.30	0.31	-0.86	33 / 199
5 Year	6.46	1.31	0.93	1/186
10 Year	8.25	1.44	1.10	1/134
5 Year Up/Down	102.71 / 98.72	1.63 / -4.05		
Since Inception	9.92	-	3.26	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns									
	2022	2021	2020	2019	2018	2017	2016		
Fund	-17.55	16.83	18.77	24.40	-5.52	21.97	8.17		
Peer Group	-17.72	15.87	15.14	24.00	-7.91	20.18	7.76		

#### **Quarterly Returns History**

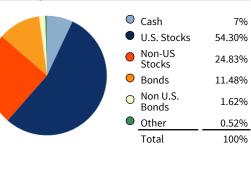


Category: Target-Date 2040 Benchmark: S&P Target Date 2040 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	11.75	10.32
Track Record (Yrs)	16.58	11.92
Turnover Ratio %	4.00	23.80
Total Net Assets (\$Millions)	33,157.00	646.00
Price/Earnings	19.34	17.62
Assets in top 10 holdings %	68.38	84.53
Number of holdings	22.00	21.00

Sales Charges	Fund	Peers
Front End Load %	-	5.50
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund	<b>Peers</b> 0.25
	<b>Fund</b> - 0.36	

### Fund Composition 30-Jun-2023



Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFGTX as of 9/30/2023 rated against 199 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	6.04	6.04
Avg. Effective Maturity (Yrs)	-	8.17
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	78.69	51.98
AA %	2.63	3.77
A %	5.79	8.60
BBB %	6.46	11.65
BB %	3.75	4.83
В %	1.40	3.79
Below B %	0.51	1.12
Not Rated %	0.77	0.52

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2040 Trgt Date Retire R6 - RFGTX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 27-Jul-2009 Category: Target-Date 2040 Benchmark: S&P Target Date 2040 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

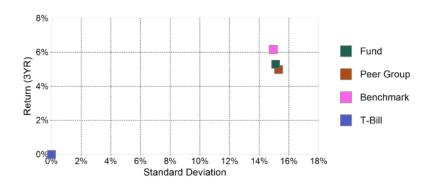
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFGTX as of 9/30/2023 rated against 199 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-	Calendar Year Quartile Ranki (shades indicate fund quartile ra	-
Sharpe Ratio - 1 Year		0.88	0.08	-0.02	Top	IIIKIII I
Sharpe Ratio - 3 Year		0.30	0.01	-0.06	2nd	
Sharpe Ratio - 5 Year		0.37	0.08	0.06	3rd	
Sharpe Ratio - 10 Year		0.61	0.12	0.08	Bottom	
Std. Deviation - 3 Year		15.11	-0.20	0.15		201
Std. Deviation - 5 Year		15.74	-0.56	-0.16	Fund	8.17
Std. Deviation - 10 Year		12.49	-0.37	0.03	Peer Group 25 Percentile	8.60
Mean - 3 Year		5.30	0.31	-0.86	Peer Group 50 Percentile	7.76
Mean - 5 Year		6.46	1.31	0.93	Peer Group 75 Percentile	6.93
Mean - 10 Year		8.25	1.44	1.10	Benchmark	9.23
Alpha (Best Fit) - 3 Year		-	-	-		
Alpha (Standard) - 3 Year		-0.82	0.30	-0.82		
Alpha (Standard) - 5 Year		0.93	1.31	0.93		
Beta (Best Fit) - 3 Year		-	-	-		
Beta (Standard) - 3 Year		1.00	-0.02	0.00		
R-Squared (Best Fit) - 3 Year		-	-	-		
R-Squared (Standard) - 3 Year		99.16	0.07	-0.84		
Sector Weightings (%)					Fund Risk/Return (3 Year)	
Basic Materials	4.59					
Consumer Cyclical	10.87				8% : :	
Financial Services	11.71					
Real Estate	1.89				6%	
Consumer Defensive	7.80					
Healthcare	16.87				(3)	
Utilities	2.68				%b %b %b	
Communication Services	6.54				Ret	
Energy	4.85				2%	
Industrials	12.72					
Technology	19.50				0% 2% 4%	6%

d quartile ranking; numbers indicate			ate perfor	mance at N	IAV)		
	2016	2017	2018	2019	2020	2021	2022
	8.17%	21.97%	-5.52%	24.40%	18.77%	16.83%	-17.55%
ntile	8.60%	20.98%	-7.18%	24.66%	17.04%	16.43%	-16.60%
ntile	7.76%	20.18%	-7.91%	24.00%	15.14%	15.87%	-17.72%
ıtile	6.93% 9.23%	19.09% 18.87%	-8.61% -7.41%	23.05% 23.37%	13.28% 13.37%	14.99% 16.55%	-18.41% -15.56%

### Fund Risk/Return (3 Year)





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## American Funds 2045 Trgt Date Retire R6 - RFHTX

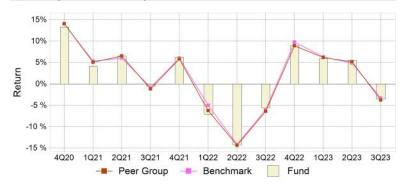
Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-3.57	0.21	-0.24	26/212
YTD	7.73	0.22	-0.06	41/203
1 Year	17.33	0.12	-0.99	46 / 203
3 Year	5.39	-0.26	-1.33	61/196
5 Year	6.52	1.02	0.71	2 / 185
10 Year	8.37	1.31	0.96	1/136
5 Year Up/Down	100.10/97.17	-2.18 / -5.98		
Since Inception	10.58	-	3.79	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns								
	2022	2021	2020	2019	2018	2017	2016	
Fund	-18.18	17.18	19.21	24.68	-5.58	22.44	8.27	
Peer Group	-18.15	16.81	15.71	24.76	-8.34	20.77	7.93	

### **Quarterly Returns History**

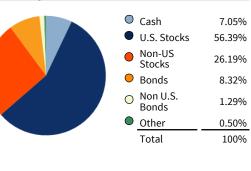


Category: Target-Date 2045 Benchmark: S&P Target Date 2045 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	11.75	10.38
Track Record (Yrs)	16.58	13.25
Turnover Ratio %	15.00	23.00
Total Net Assets (\$Millions)	27,150.00	480.00
Price/Earnings	19.47	17.64
Assets in top 10 holdings %	72.11	89.10
Number of holdings	19.00	19.00

Sales Charges	Fund	Peers
Front End Load %	-	5.75
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund	<b>Peers</b> 0.25
	<b>Fund</b> - 0.37	

### Fund Composition 30-Jun-2023



Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFHTX as of 9/30/2023 rated against 196 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	6.43	6.12
Avg. Effective Maturity (Yrs)	-	8.01
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	82.98	52.22
AA %	2.21	3.66
A %	5.45	9.82
BBB %	5.53	12.51
BB %	2.48	5.25
В %	0.62	4.85
Below B %	0.26	1.63
Not Rated %	0.47	0.73

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2045 Trgt Date Retire R6 - RFHTX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009 Category: Target-Date 2045 Benchmark: S&P Target Date 2045 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

**Calendar Year Quartile Rankings** 

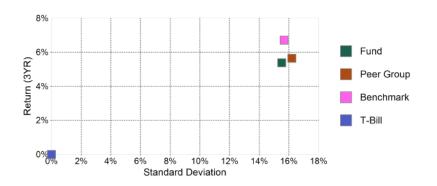
Morningstar Overall Rating: 5.00

Overall Morningstar Rating for RFHTX as of 9/30/2023 rated against 196 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.90	0.06	-0.03
Sharpe Ratio - 3 Year		0.31	-0.01	-0.07
Sharpe Ratio - 5 Year		0.37	0.07	0.05
Sharpe Ratio - 10 Year		0.61	0.12	0.08
Std. Deviation - 3 Year		15.52	-0.68	-0.17
Std. Deviation - 5 Year		16.13	-1.02	-0.49
Std. Deviation - 10 Year		12.77	-0.79	-0.24
Mean - 3 Year		5.39	-0.26	-1.33
Mean - 5 Year		6.52	1.02	0.71
Mean - 10 Year		8.37	1.31	0.96
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		-1.19	-0.12	-1.19
Alpha (Standard) - 5 Year		0.78	1.09	0.78
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		0.98	-0.05	-0.02
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		98.94	-0.08	-1.06
Sector Weightings (%)				
Basic Materials	4.67			
Consumer Cyclical	11.00			
Financial Services	11.61			
Real Estate	1.82			
Consumer Defensive	7.65			
Healthcare	16.90			
Utilities	2.59			
Communication Services	6.46			
Energy	4.82			
ndustrials	12.84			
Technology	19.63			

(shades indicate fund quartile ranking; numbers indicate performance at NAV)								
Тор								
2nd								
3rd								
Bottom								
	2016	2017	2018	2019	2020	2021	2022	
Fund	8.27%	22.44%	-5.58%	24.68%	19.21%	17.18%	-18.18%	
Peer Group 25 Percentile	8.75%	21.40%	-7.50%	25.58%	17.45%	17.56%	-16.97%	
Peer Group 50 Percentile	7.93%	20.77%	-8.34%	24.76%	15.71%	16.81%	-18.15%	
Peer Group 75 Percentile	7.09%	19.89%	-9.05%	23.91%	13.56%	15.94%	-18.76%	
Benchmark	9.54%	19.56%	-7.74%	24.02%	13.66%	17.51%	-15.84%	

### Fund Risk/Return (3 Year)





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## American Funds 2050 Trgt Date Retire R6 - RFITX

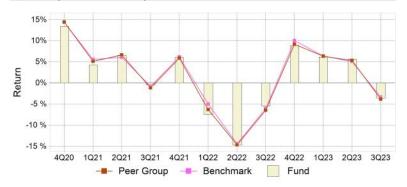
Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-3.58	0.27	-0.22	25/213
YTD	8.16	0.39	0.13	34 / 204
1 Year	17.77	0.06	-1.07	49 / 204
3 Year	5.28	-0.51	-1.73	74 / 197
5 Year	6.49	0.90	0.56	3/186
10 Year	8.40	1.23	0.80	1/134
5 Year Up/Down	99.18 / 96.92	-2.29 / -5.26		
Since Inception	10.61	-	2.65	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns								
	2022	2021	2020	2019	2018	2017	2016	
Fund	-18.89	17.27	19.42	25.04	-5.61	22.61	8.33	
Peer Group	-18.28	17.11	15.92	24.98	-8.49	21.02	7.97	

#### **Quarterly Returns History**

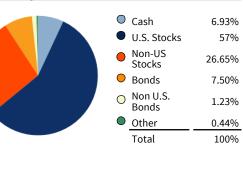


Category: Target-Date 2050 Benchmark: S&P Target Date 2050 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	11.75	10.38
Track Record (Yrs)	16.58	11.92
Turnover Ratio %	2.00	21.00
Total Net Assets (\$Millions)	24,090.00	444.00
Price/Earnings	19.66	17.81
Assets in top 10 holdings %	74.81	89.92
Number of holdings	19.00	19.00

Sales Charges	Fund	Peers
Front End Load %	-	5.63
Deferred Load %	-	1.00
_		
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund -	<b>Peers</b> 0.25
	- 0.38	

#### Fund Composition 30-Jun-2023



Morningstar Overall Rating: 4.00

Overall Morningstar Rating for RFITX as of 9/30/2023 rated against 197 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	6.49	6.14
Avg. Effective Maturity (Yrs)	-	8.10
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	84.96	53.97
AA %	2.12	3.72
A %	5.16	10.29
BBB %	4.97	12.19
BB %	1.85	4.27
В%	0.32	3.10
Below B %	0.17	0.99
Not Rated %	0.45	0.57

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2050 Trgt Date Retire R6 - RFITX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 13-Jul-2009 Category: Target-Date 2050 Benchmark: S&P Target Date 2050 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

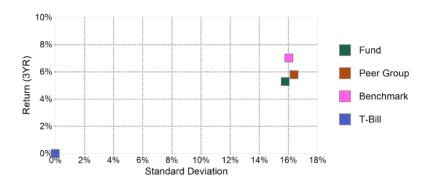
Morningstar Overall Rating: 4.00

Overall Morningstar Rating for RFITX as of 9/30/2023 rated against 197 funds in its category.

			_	
Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.92	0.07	-0.03
Sharpe Ratio - 3 Year		0.30	-0.02	-0.10
Sharpe Ratio - 5 Year		0.36	0.06	0.04
Sharpe Ratio - 10 Year		0.60	0.10	0.07
Std. Deviation - 3 Year		15.78	-0.61	-0.25
Std. Deviation - 5 Year		16.39	-0.97	-0.58
Std. Deviation - 10 Year		12.95	-0.71	-0.38
Mean - 3 Year		5.28	-0.51	-1.73
Mean - 5 Year		6.49	0.90	0.56
Mean - 10 Year		8.40	1.23	0.80
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		-1.53	-0.32	-1.53
Alpha (Standard) - 5 Year		0.66	1.02	0.66
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		0.98	-0.04	-0.02
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		98.73	-0.30	-1.27
Sector Weightings (%)				
Basic Materials	4.71			
Consumer Cyclical	11.26			
Financial Services	11.46			
Real Estate	1.62			
Consumer Defensive	7.39			
Healthcare	16.97			
Utilities	2.43			
Communication Services	6.51			
Energy	4.69			
Industrials	12.99			
Technology	19.97			

Calendar Year Quartile Rankings							
(shades indicate fund quartile ranking; numbers indicate performance at NAV)							
Тор							
2nd							
3rd							
Bottom							
	2016	2017	2018	2019	2020	2021	2022
Fund	8.33%	22.61%	-5.61%	25.04%	19.42%	17.27%	-18.89%
Peer Group 25 Percentile	8.70%	21.61%	-7.60%	25.87%	17.58%	18.11%	-17.26%
Peer Group 50 Percentile	7.97%	21.02%	-8.49%	24.98%	15.92%	17.11%	-18.28%
Peer Group 75 Percentile	7.08%	20.19%	-9.22%	24.30%	13.64%	16.35%	-19.05%
Benchmark	9.74%	20.18%	-7.94%	24.35%	13.86%	17.99%	-15.97%

## Fund Risk/Return (3 Year)





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as of 09/30/2023 70 of 98

## American Funds 2055 Trgt Date Retire R6 - RFKTX

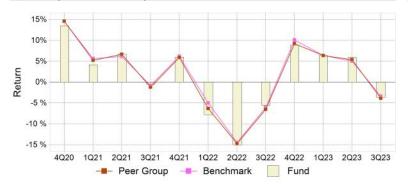
Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 01-Feb-2010

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-3.64	0.23	-0.28	30/212
YTD	8.56	0.62	0.52	25 / 203
1 Year	18.14	0.15	-0.83	41/203
3 Year	5.16	-0.73	-1.96	81/196
5 Year	6.41	0.79	0.43	5/185
10 Year	8.35	1.16	0.67	1/123
5 Year Up/Down	98.77 / 97.05	-2.37 / -4.83		
Since Inception	9.51	-	0.48	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns							
	2022	2021	2020	2019	2018	2017	2016
Fund	-19.50	17.28	19.39	25.09	-5.65	22.63	8.30
Peer Group	-18.29	17.27	15.93	25.03	-8.54	21.22	7.93

#### **Quarterly Returns History**

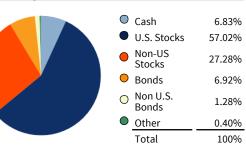


Category: Target-Date 2055 Benchmark: S&P Target Date 2055 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023		Fund	Peers
Manager Tenure	e (Yrs)	11.75	9.52
Track Record (Y	rs)	13.58	10.83
Turnover Ratio	%	3.00	21.00
Total Net Assets	(\$Millions)	16,205.00	308.00
Price/Earnings		19.79	17.64
Assets in top 10	holdings %	77.03	89.89
Number of hold	ings	17.00	19.00

Sales Charges	Fund	Peers
Front End Load %	-	5.75
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund	<b>Peers</b> 0.25
	<b>Fund</b> - 0.38	

## Fund Composition 30-Jun-2023



Morningstar Overall Rating: 4.00

Overall Morningstar Rating for RFKTX as of 9/30/2023 rated against 196 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	6.53	6.12
Avg. Effective Maturity (Yrs)	-	8.10
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	85.92	52.41
AA %	2.14	3.15
Α%	5.13	10.32
BBB %	4.69	12.04
BB %	1.46	4.27
В %	0.10	3.10
Below B %	0.12	0.99
Not Rated %	0.44	0.44

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2055 Trgt Date Retire R6 - RFKTX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 01-Feb-2010 Category: Target-Date 2055 Benchmark: S&P Target Date 2055 TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

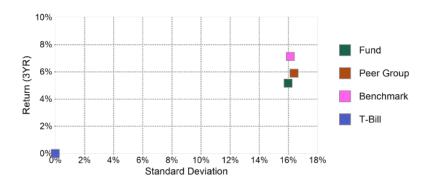
Morningstar Overall Rating: 4.00

Overall Morningstar Rating for RFKTX as of 9/30/2023 rated against 196 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.93	0.08	-0.02
Sharpe Ratio - 3 Year		0.29	-0.04	-0.11
Sharpe Ratio - 5 Year		0.36	0.06	0.04
Sharpe Ratio - 10 Year		0.60	0.10	0.07
Std. Deviation - 3 Year		15.98	-0.42	-0.15
Std. Deviation - 5 Year		16.50	-0.87	-0.60
Std. Deviation - 10 Year		13.02	-0.63	-0.45
Mean - 3 Year		5.16	-0.73	-1.96
Mean - 5 Year		6.41	0.79	0.43
Mean - 10 Year		8.35	1.16	0.67
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		-1.76	-0.56	-1.76
Alpha (Standard) - 5 Year		0.54	0.89	0.54
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		0.98	-0.03	-0.02
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		98.54	-0.45	-1.46
Sector Weightings (%)				
Basic Materials	4.80			
Consumer Cyclical	11.53			
Financial Services	11.30			
Real Estate	1.44			
Consumer Defensive	7.15			
Healthcare	16.95			
Utilities	2.28			
Communication Services	6.58			
Energy	4.57			
Industrials	13.09			
Technology	20.31			

Calendar Year Quartile Rankings								
(shades indicate fund quartile ranking; numbers indicate performance at NAV)								
Тор								
2nd								
3rd								
Bottom								
	2016	2017	2018	2019	2020	2021	2022	
Fund	8.30%	22.63%	-5.65%	25.09%	19.39%	17.28%	-19.50%	
Peer Group 25 Percentile	8.70%	21.80%	-7.66%	26.00%	17.69%	18.24%	-17.40%	
Peer Group 50 Percentile	7.93%	21.22%	-8.54%	25.03%	15.93%	17.27%	-18.29%	
Peer Group 75 Percentile	7.10%	20.41%	-9.39%	24.44%	14.12%	16.49%	-19.10%	
Benchmark	9.94%	20.48%	-7.97%	24.48%	13.86%	18.19%	-15.97%	

## Fund Risk/Return (3 Year)





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## American Funds 2060 Trgt Date Retire R6 - RFUTX

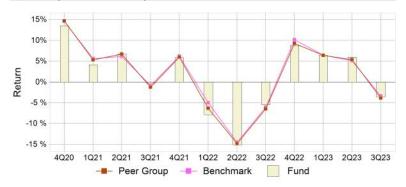
Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 27-Mar-2015

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-3.62	0.24	-0.25	28/212
YTD	8.67	0.70	0.53	23 / 203
1 Year	18.17	0.19	-0.92	41/203
3 Year	5.12	-0.85	-1.97	83/191
5 Year	6.37	0.76	0.37	7 / 174
10 Year	-	-	-	- / 8
5 Year Up/Down	98.27 / 96.80	-3.00 / -4.84		
Since Inception	7.72	-	-1.49	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns							
	2022	2021	2020	2019	2018	2017	2016
Fund	-19.66	17.19	19.44	25.01	-5.64	22.49	8.41
Peer Group	-18.32	17.43	16.03	25.12	-8.56	21.25	7.74

### **Quarterly Returns History**

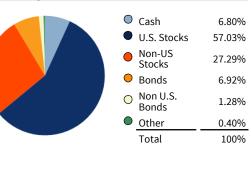


Category: Target-Date 2060 Benchmark: S&P Target Date 2060+ TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	8.52	7.08
Track Record (Yrs)	8.50	7.50
Turnover Ratio %	2.00	22.80
Total Net Assets (\$Millions)	9,090.00	144.00
Price/Earnings	19.79	17.72
Assets in top 10 holdings %	79.05	89.43
Number of holdings	16.00	18.50

Sales Charges	Fund	Peers
Front End Load %	-	5.75
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund	<b>Peers</b> 0.25
	<b>Fund</b> - 0.38	

### Fund Composition 30-Jun-2023



Morningstar Overall Rating: 4.00

Overall Morningstar Rating for RFUTX as of 9/30/2023 rated against 191 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	6.53	6.12
Avg. Effective Maturity (Yrs)	-	8.09
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	85.86	54.65
AA %	2.15	3.71
A %	5.15	10.32
BBB %	4.70	12.05
BB %	1.47	4.27
В %	0.10	3.10
Below B %	0.12	0.99
Not Rated %	0.45	0.45

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2060 Trgt Date Retire R6 - RFUTX

Family: American Funds Fund Manager: Wesley K.-S. Phoa Fund Inception Date: 27-Mar-2015 Category: Target-Date 2060 Benchmark: S&P Target Date 2060+ TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Morningstar Overall Rating: 4.00

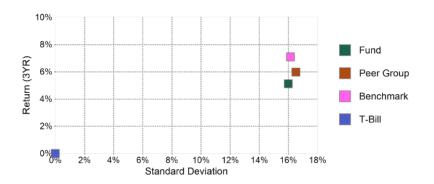
Overall Morningstar Rating for RFUTX as of 9/30/2023 rated against 191 funds in its category.

Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.93	0.07	-0.02
Sharpe Ratio - 3 Year		0.29	-0.04	-0.11
Sharpe Ratio - 5 Year		0.35	0.05	0.02
Sharpe Ratio - 10 Year		-	-	-
Std. Deviation - 3 Year		16.00	-0.52	-0.15
Std. Deviation - 5 Year		16.50	-0.93	-0.65
Std. Deviation - 10 Year		-	-	-
Mean - 3 Year		5.12	-0.85	-1.97
Mean - 5 Year		6.37	0.76	0.37
Mean - 10 Year		-	-	-
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		-1.77	-0.65	-1.77
Alpha (Standard) - 5 Year		0.49	0.85	0.49
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		0.98	-0.04	-0.02
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		98.50	-0.53	-1.50
Sector Weightings (%)				
Basic Materials	4.81			
Consumer Cyclical	11.66			
Financial Services	11.23			
Real Estate	1.43			
Consumer Defensive	7.07			
Healthcare	16.92			
Utilities	2.24			
<b>Communication Services</b>	6.62			
Energy	4.55			
Industrials	13.13			

20.34

Calendar Year Quartile Rankings											
(shades indicate fund quartile ranking; numbers indicate performance at NAV)											
Тор											
2nd											
3rd											
Bottom											
	2016	2017	2018	2019	2020	2021	2022				
Fund	8.41%	22.49%	-5.64%	25.01%	19.44%	17.19%	-19.66%				
Peer Group 25 Percentile	8.43%	21.79%	-7.82%	26.19%	17.81%	18.46%	-17.45%				
Peer Group 50 Percentile	7.74%	21.25%	-8.56%	25.12%	16.03%	17.43%	-18.32%				
Peer Group 75 Percentile	7.10%	20.58%	-9.54%	24.59%	13.98%	16.59%	-19.12%				
Benchmark	10.08%	20.75%	-7.95%	24.73%	13.99%	18.05%	-16.01%				

## Fund Risk/Return (3 Year)





Technology

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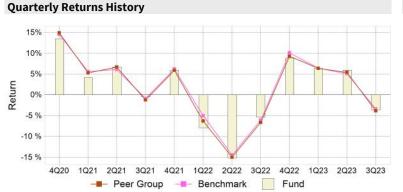
# American Funds 2065 Trgt Date Retire R6 - RFVTX

Family: American Funds Fund Manager: Michelle J. Black Fund Inception Date: 27-Mar-2020

Performance	Fund	Peers +/-	Bench +/-	Rank % / # Funds
Last Cal. QTR	-3.61	0.24	-0.24	27 / 204
YTD	8.67	0.57	0.53	26 / 175
1 Year	18.23	0.09	-0.86	48 / 158
3 Year	5.15	-0.66	-1.94	72/111
5 Year	-	-	-	- / 9
10 Year	-	-	-	- / 0
5 Year Up/Down	- / -	- / -		
Since Inception	12.40	-	3.19	

Performance Disclosure: The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five- and 10-year (if applicable) Morningstar metrics. Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate so you may have a gain or loss when shares are sold. Current performance may be lower or higher than quoted. For most recent performance, visit www.morningstar.com.

Calendar Year Returns										
	2022	2021	2020	2019	2018	2017	2016			
Fund	-19.64	17.32	-	-	-	-	-			
Peer Group	-18.56	17.31	16.50	26.91	-9.80	-	-			

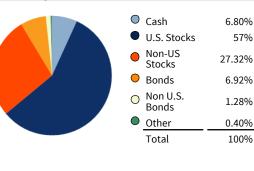


Category: Target-Date 2065+ Benchmark: S&P Target Date 2060+ TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Fund Basics 30-Jun-2023	Fund	Peers
Manager Tenure (Yrs)	3.75	3.02
Track Record (Yrs)	3.50	3.00
Turnover Ratio %	2.00	28.40
Total Net Assets (\$Millions)	1,645.00	12.00
Price/Earnings	19.79	17.80
Assets in top 10 holdings %	79.02	88.83
Number of holdings	16.00	18.00

Sales Charges	Fund	Peers
Front End Load %	-	5.75
Deferred Load %	-	1.00
Expenses	Fund	Peers
Expenses 12b1 Expense %	Fund -	<b>Peers</b> 0.25
	<b>Fund</b> - 0.38	

## Fund Composition 30-Jun-2023



Morningstar Overall Rating: 2.00

Overall Morningstar Rating for RFVTX as of 9/30/2023 rated against 111 funds in its category.

Fixed Income Basics 30- Jun-2023	Fund	Peers
Avg. Effective Duration (Yrs)	6.53	6.12
Avg. Effective Maturity (Yrs)	-	8.11
Avg. Weighted Price \$	-	-

Yields	Fund	Peers
30 Day SEC %	-	-
30 Day SEC % (Unsubsidized)	-	-

Credit Quality	Fund	Peers
AAA %	85.85	56.91
AA %	2.15	2.98
A %	5.15	10.23
BBB %	4.70	11.92
BB %	1.47	1.83
В%	0.11	0.98
Below B %	0.12	0.28
Not Rated %	0.45	0.45

The rating agencies that provided the ratings are Standard & Poor's and Moody's. When the ratings vary, the highest rating is used.



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# American Funds 2065 Trgt Date Retire R6 - RFVTX

Family: American Funds Fund Manager: Michelle J. Black Fund Inception Date: 27-Mar-2020 Category: Target-Date 2065+ Benchmark: S&P Target Date 2060+ TR USD Prospectus Objective: Asset Allocation Home Page: www.americanfunds.com Phone: 800-421-4225

Morningstar Overall Rating: 2.00

Overall Morningstar Rating for RFVTX as of 9/30/2023 rated against 111 funds in its category.

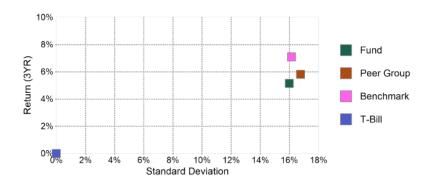
Risk Measures		Fund	Peers +/-	Bench +/-
Sharpe Ratio - 1 Year		0.94	0.08	-0.01
Sharpe Ratio - 3 Year		0.29	-0.03	-0.11
Sharpe Ratio - 5 Year		-	-	-
Sharpe Ratio - 10 Year		-	-	-
Std. Deviation - 3 Year		16.00	-0.77	-0.15
Std. Deviation - 5 Year		-	-	-
Std. Deviation - 10 Year		-	-	-
Mean - 3 Year		5.15	-0.66	-1.94
Mean - 5 Year		-	-	-
Mean - 10 Year		-	-	-
Alpha (Best Fit) - 3 Year		-	-	-
Alpha (Standard) - 3 Year		-1.75	-0.41	-1.75
Alpha (Standard) - 5 Year		-	-	-
Beta (Best Fit) - 3 Year		-	-	-
Beta (Standard) - 3 Year		0.98	-0.05	-0.02
R-Squared (Best Fit) - 3 Year		-	-	-
R-Squared (Standard) - 3 Year		98.51	-0.63	-1.49
Sector Weightings (%)				
Basic Materials	4.81			
Consumer Cyclical	11.65			
Financial Services	11.24			
Real Estate	1.43			
Consumer Defensive	7.07			
Healthcare	16.92			
Utilities	2.24			
Communication Services	6.61			
Energy	4.55			
Industrials	13.13			
Technology	20.34			

# **Calendar Year Quartile Rankings**

(shades indicate fund quartile ranking; numbers indicate performance at NAV) Тор

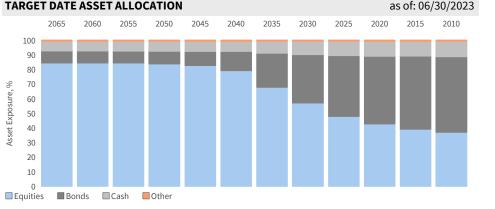
Тор							
2nd							
3rd							
Bottom							
	2016	2017	2018	2019	2020	2021	2022
Fund	-%	-%	-%	-%	-%	17.32%	-19.64%
Peer Group 25 Percentile	-%	-%	-9.39%	27.08%	17.53%	18.52%	-17.90%
Peer Group 50 Percentile	-%	-%	-9.80%	26.91%	16.50%	17.31%	-18.56%
Peer Group 75 Percentile	-%	-%	-10.20%	26.63%	15.13%	16.25%	-19.24%
Benchmark	10.08%	20.75%	-7.95%	24.73%	13.99%	18.05%	-16.01%

## Fund Risk/Return (3 Year)

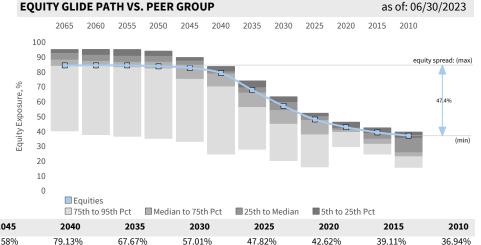




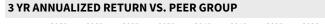
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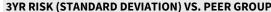
# American Funds Trgt Date Retire R6 Target Date Fund Family



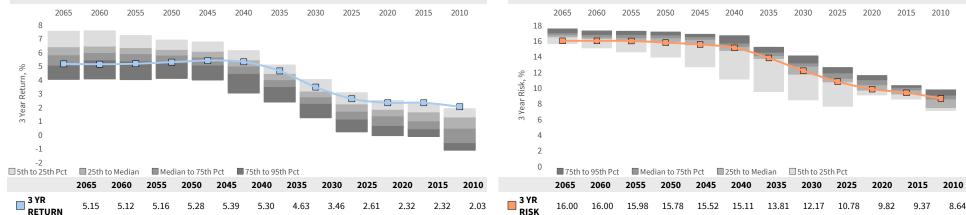
ASSET ALLOCATION %	2065	2060	2055	2050	2045	2040	2035	2030	2025	2020	2015	2010
Equities	84.32%	84.32%	84.30%	83.65%	82.58%	79.13%	67.67%	57.01%	47.82%	42.62%	39.11%	36.94%
Bonds	8.20%	8.20%	8.20%	8.73%	9.61%	13.10%	23.33%	32.99%	41.59%	46.36%	49.90%	51.64%
Cash	6.80%	6.80%	6.83%	6.93%	7.05%	7.00%	8.29%	9.31%	9.90%	10.30%	10.27%	10.74%
Other	0.68%	0.68%	0.68%	0.71%	0.76%	0.77%	0.72%	0.68%	0.69%	0.73%	0.71%	0.69%



as of: 09/29/2023



as of: 09/29/2023



Target Date Funds - Target date funds with the target date being the approximate date when investors plan to start withdrawing their money. Generally, the asset allocation of each fund will change on an annual basis with the asset allocation becoming more conservative as the fund nears the target retirement date. The principal value of the fund(s) is not guaranteed at any time, including at the target date. Each date used above corresponds with the fund families target date option of the same name. Please see the Definitions and Disclosures section for more information about *Peer Rank*.



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# Insights for fiduciaries

# Government spending bill makes extensive changes to 401(k) plan rules

The government spending bill signed into law on Friday, December 20, 2019, includes a set of provisions referred to as the SECURE Act, that make a number of changes to the rules governing 401(k) plans. The goal of these provisions is to help increase retirement savings and ease compliance with certain retirement plan rules.

Parts of the legislation will be implemented over time, while others take effect immediately. Most notably for businesses considering starting a retirement plan, the small business tax credit was dramatically expanded which will help offset the start-up costs for new retirement plans, and it is effective for plans beginning in January 2020.

The SECURE Act includes nearly thirty changes to retirement savings law. We highlight the key changes impacting employer-sponsored retirement plans below.

- Requires plans to cover certain longer-service, part-time employees who can currently be excluded from coverage (generally effective in 2021)
- Requires benefit statements to include estimates of the monthly income an employee could receive in retirement if the account balance were converted into an annuity (effective after the Department of Labor issues rules, model disclosures and specified assumptions)
- Provides a fiduciary safe harbor for selecting a lifetime income investment provider, such as an annuity provider, as (or as part of) a plan investment option (effective immediately)
- Requires portability of lifetime income investments held in plans, such as annuities, to other plans, to IRAs, or as a plan distribution (generally effective in 2020)
- Increases starting date for minimum required distributions from plans from age 70<sup>1</sup>/<sub>2</sub> to age 72 (generally effective in 2020 for individuals who had not already reached age 70<sup>1</sup>/<sub>2</sub>)
- Caps the amount of time over which beneficiaries may take plan distributions (5 years or 10 years, depending on the beneficiary; exceptions for certain beneficiaries such as spouses and minor children) (generally effective in 2020)
- For safe harbor 401(k) plans, provides greater flexibility to elect into the minimum non-elective contribution safe harbor (generally effective 2020)
- Increases the small business plan startup tax credit that will now be capped at \$250 times the number of non-highly compensated employees eligible to participate in the plan up to a \$5,000 annual maximum (the credit is still limited to 50% of the start-up costs); it also adds a small business automatic enrollment tax credit of \$500 per year (generally effective 2020)
- Creates a new form of plan—"Pooled Employer Plan"—that would permit greater flexibility to combine unrelated businesses into a single retirement
  plan for purposes of achieving economies of scale and other efficiencies. The development of Pooled Employer Plans will depend in part on the
  issuance of guidance on specific aspects of the new rules from both the Treasury and the DOL, and in part on whether firms decide to sponsor these
  types of plans. (effective 2021)

As with any significant legislation, it will take some time for the retirement industry to implement certain changes, so you should expect additional information in the coming weeks and months.

For additional information about the SECURE ACT or any other questions, please contact your UBS Financial Advisor.



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# Fall 2023

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# Do participants understand the risks of outliving their retirement savings?

What steps can plan sponsors take to help participants understand the risks of underestimating how long their retirement may last? Longevity risk is real, and helping plan participants grasp its ramifications should be part of a plan sponsor's overall participant education and engagement efforts.

### Defining the risk

Longevity risk is the risk of living longer than anticipated and exhausting the financial resources designed to cover the costs of retirement. It is more common than realized. Studies have consistently found that when people are asked to estimate the probability that they would live to a specified age, they tend to underestimate actuarial life expectancy values by a wide margin.

Research undertaken by the Stanford Center on Longevity found that two in three pre-retirement age men surveyed underestimate the life expectancy of the average 65-year-old man. Of this group, 42% underestimate average life expectancy by five years or more. Additionally, 50% of pre-retirement age women underestimate the life expectancy of the average 65-year-old woman.

#### The reality

While COVID-19 has had a negative impact on life expectancies, the historical trend in the US has been one of expanding life expectancies. In fact, demographic data indicate that the average life expectancy of 65-year-olds improved by almost six years since 1950.<sup>1</sup>

Below are some average life expectancies at different ages as shown in the most recent IRS Single Life Expectancy table:<sup>2</sup>

Age	45	50	55	60	65	70	75	
Life expectancy (in years)	41.0	36.2	31.6	27.1	22.9	18.8	14.8	

One of the many takeaways from this table is that the average participant should be planning for a retirement that could easily last for two decades—and possibly much longer. By building sufficient retirement savings during their working years and managing their money wisely after they retire, participants can be in a better position to avoid depleting their savings prematurely.

#### Plan sponsor strategies

Plan sponsors are in a unique position to help participants take a more realistic approach to life expectancies and to remind them that the decisions they make about saving and investing can make a big difference in the type of retirement they will experience.

**Evaluate plan metrics.** A good first step may be to determine participation and contribution levels using current data. Are average contribution levels close to the benchmarks for your plan size and industry? How many participants increased or reduced their contribution percentages in the last two years? Having access to meaningful numbers such as these allows plan sponsors to create effective strategies.

**Leverage automatic features.** Would retooling the plan's design increase participation and contribution levels? For example, with automatic enrollment, contributions can be set at a default deferral rate that automatically increases on a specified schedule, unless the employee opts out or elects a different contribution percentage.

**Stay relevant.** Plan sponsors should deliver relevant content. Communications should focus on the issues that matter for participants while recognizing that they are individuals with their own personal experiences and goals.

**Communicate regularly.** Plan Sponsor communications with employees should not be a one-time or occasional effort. They should also take advantage of multiple platforms— e-mails, videos, messaging apps, direct mail, seminars and face-to-face meetings—to reinforce the importance and value of starting retirement planning as soon as possible and to outline the steps that will help bring your employees closer to financial security.



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# Cobb County UBS ERISA Extra

Ideally, many of the materials plan sponsors provide will be interactive. Calculators, videos and written materials that help participants learn how to estimate their future retirement needs and determine the amount they will need to contribute to their plan accounts to attain their goals are valuable. Providing general education on asset allocation, diversification, risk and return, and dollar-cost averaging and supplying the historic returns of various asset classes can help participants make informed investment choices.

Consult your plan advisor on helping you design engagement, education and financial wellness programs for participants that will enhance their understanding of longevity risk and the importance of planning for all the years of their retirement.

# Depositing 401(k) contributions— getting the timing right

Plan sponsors are responsible for ensuring that employee plan contributions are deposited into the plan trust in a timely manner. The faster funds are deposited in the plan, the earlier they can be invested on behalf of plan participants. Late deposits of salary deferral contributions must be reported on Form 5500 (the Annual Return/Report of Employee Benefit Plan), and are considered "prohibited transactions" that can give rise to fiduciary liability and excise taxes.

Department of Labor regulations clearly state that participant contributions to a 401(k) plan, as well as amounts representing repayment of participant loans, become assets of the plan as of the earliest date on which they can reasonably be segregated from the employer's general assets.<sup>3</sup> The regulations additionally state that in no event may deposits be made later than the 15th business day of the month following the month in which the employer receives the amounts or withholds them from participant wages.<sup>4</sup>

Plan sponsors must understand that the 15th business day represents an outside limit of the time that may be considered for segregation of the assets. If contributions and loan repayments can reasonably be segregated and deposited into the plan earlier, they must be deposited before the 15th business day. In fact, the regulators will determine how quickly a plan sponsor can reasonably deposit elective deferrals into the plan trust based on the earliest date the sponsor has been able to do so in the past.

#### Safe harbor for small plans

There is a safe harbor period under the regulations for plans that have fewer than 100 participants at the beginning of the plan year. Under this safe harbor, employers that deposit employee contributions and loan repayments within seven business days after the amounts are withheld from employee wages or received by the employer will automatically satisfy the law's requirements. If a deposit is made later than seven days after the payroll date, it will not be considered a prohibited transaction as long as the deposit was made as soon as the contributions could reasonably be segregated from the employer's assets (and *not after* the 15th business day of the month following the payroll month).<sup>5</sup>

### Voluntary correction

The US Department of Labor's Voluntary Fiduciary Correction Program (VFCP) allows plan sponsors to correct delinquent participant contributions and participant loan repayments.<sup>6</sup> In order to make use of the VFCP, an applicant must restore the plan, participants and beneficiaries to the condition they would have been in had the breach not occurred (i.e., make up for any potential lost returns between the time period of when the deposits should have

been made to the plan trust and when they were actually made). The plan sponsor must then submit an application to the Employee Benefits Security Administration demonstrating that the violation has been self-corrected in accordance with the required correction method, which includes restoring any lost earnings to the plan. Upon successful completion of the VFCP process, the Department of Labor may issue a "no-action" letter with respect to the violation.

To avoid the potential costs of correcting late deposits, plan sponsors will want to have sound administrative procedures in place to ensure that participant contributions and loan repayments are timely deposited.

# Survey finds steepest decline in retirement confidence since 2008

The 2023 *Retirement Confidence Survey* from the Employee Benefit Research Institute (EBRI) and Greenwald Research<sup>7</sup> explores the retirement outlook of employees and retirees. The survey provides important insights into the retirement planning process and the progress workers are making with their planning.

Compared with 2022, the 2023 survey found a steep decline in confidence among workers regarding their retirement security. In 2023, only 18% of workers felt very confident they would have enough money to live comfortably throughout retirement, down from 28% in 2022. The decline in confidence was the largest since 2008 at the height of the global financial crisis.

#### What's behind the lack of confidence?

Workers identified several sources for their lack of confidence, including a lack of savings, inflation, high levels of debt and a decline in the value of their retirement accounts.

**Lack of savings.** Among surveyed workers who said that they are not confident about their future retirement security, 40% said it was due to having little or no savings. They are unprepared for retirement and cannot afford to retire.

**Inflation.** About 84% of workers are concerned that the increasing cost of living will make it harder for them to save money for retirement, and 40% worry that their money will not keep up with inflation in retirement. Almost three-quarters (73%) said that they will have to make substantial cuts to their spending because of inflation.

**Debt.** High levels of debt can impede an individual's ability to set money aside for both shortand long-term goals. Sixty-two percent of workers in the 2023 survey said that their debt is a problem, up from 56% in 2022, with 19% saying it is a major problem. Almost half (47%) said that debt is having a negative impact on their ability to save for retirement.

**Decline in retirement account balances.** Forty percent of workers in the 2023 survey said that their account balances had decreased in the prior 12 months. Of that population of 40%, 29% reported experiencing a decline of between 16% and 25% and 8% reported experiencing losses of between 26% and 50%. However, another 32% of workers reported that their account balances had increased in the same period.



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### Tackling the challenges

The survey did demonstrate that some participants have been proactive about tackling these challenges. The majority of workers reported that they (or their spouses) are currently saving money for retirement. Also, among the population of workers who made changes to their workplace retirement plan, 37% of them increased the amount they contribute. Additionally, the survey found that half of workers have attempted to calculate how much money they will need to live comfortably in retirement and that 64% are confident they know how much money to withdraw from their retirement savings and investments in retirement.

#### Moving employees closer to retirement security

Employers can take steps to help employees move closer to retirement security. For example, by regularly reviewing the effectiveness of their plans, employers can identify potential deficiencies and make changes to better meet the needs of their employees.

Additionally, employers are increasingly recognizing the benefits that come from focusing on employees' overall financial well-being. More employers are looking for ways to incorporate financial wellness education within broader plan participant education with the goal of helping their employees develop the financial knowledge that can have a positive impact on their lives.

Encouraging plan participants to become more actively involved in retirement planning is an ongoing process. For input and assistance with your participant education and engagement efforts, consult your plan advisor.



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as of 09/30/2023 354 82 of 98 <sup>1</sup> National Center for Health Statistics. *Health, United States 2020 – 2021*. Web. Date of access 08/18/2023. <u>cdc.gov/nchs/data/hus/2020-2021/LExpMort.pdf</u>.

<sup>2</sup> IRS Publication 590-B (2022), Appendix B, Table 1. Web. Date of access 08/21/2023. irs.gov/publications/p590b#en\_US\_2022\_publink100089977.

<sup>5</sup> Department of Labor Regulation Section 2510.3-102(a)(2).

<sup>6</sup> US Department of Labor. Voluntary Fiduciary Correction Program Fact Sheet. Web. Date of Access 08/17/2023. <u>dol.gov/sites/default/files/ebsa/about-ebsa/our-activities/resource-center/</u> fact-sheets/vfcp.pdf.

<sup>7</sup> Employee Benefit Research Institute and Greenwald Research. 2023 Retirement Confidence Survey. April 27, 2023. Web. Date of access 09/21/2023. ebri.org/retirement/retirement-confidence-survey.

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<sup>&</sup>lt;sup>3</sup> Labor Regulation Section 2510.3-102(a).

<sup>&</sup>lt;sup>4</sup> Labor Regulation Section 2510.3-102(b)(1).

#### CALCULATION DEFINITIONS

Assets in top 10 holdings % - aggregate assets, expressed as a percentage, of the fund's top 10 portfolio holdings. This figure is meant to be a measure of portfolio risk. The higher the percentage, the more concentrated the fund is in a few companies or issues, and the more the fund is susceptible to the market fluctuations in these few holdings. This figure is calculated by MPI, using the most recent portfolio available for the fund and it currently counts cash as a holding.

**12b-1 Fee -** is a fee used to pay for a mutual fund's annual distribution costs. It is often used as a commission to brokers for selling the fund. The amount, which can be as high as 75 basis points for commissions and 25 basis points for service fees, is taken from a fund's returns.

Alpha - measures the difference between an investment's actual performance, and its expected performance as indicated by the returns of a selected market index. A positive Alpha indicates the risk-adjusted performance is above that index. In calculating Alpha, Standard Deviation (total risk) is used as risk measure. Alpha is often used to judge the value added or subtracted by a manager.

Asset Composition - reflects funds composition or weighting in various asset classes. "Other" includes security types that are not neatly classified in the other asset classes, such as convertible bonds and preferred stocks.

Average Style - reflects the average style exposure over the period specified. See Returns-Based Style Analysis/Exposure Chart definition for additional information.

Batting Average - measures the frequency with which a manager outperforms a selected Market Index. It is computed by dividing the number of positive excess returns by the total number of excess returns during the period.

**Benchmark R-Squared (R<sup>2</sup>)/PEER -** indicates the percentage of volatility in portfolio returns which can be "explained" by market volatility. This statistic indicates the degree to which the observed values of one variable, such as the returns of a fund, can be explained by, or are associated with the values of another variable, such as the fund's asset category benchmark. It is helpful in assessing how likely it is that Alpha and Beta are statistically significant. The R<sup>2</sup> values range from 0.0 to 1.0. An investment with an R<sup>2</sup> of 1.0 is perfectly correlated with its asset category benchmark whereas an investment with an R<sup>2</sup> of 0.0 will behave independently of its benchmark. An R<sup>2</sup> of 0.95, for example, implies that 95% of the fluctuations in a portfolio are explained by fluctuations in the market, as represented by the fund's asset category benchmark. Within the report, a fund's Benchmark R-squared is also compared to the Benchmark R-squared of all funds in the same peer group and assigned a percentile rank. The value for the Median Peer's Benchmark R-squared is also provided for comparison purposes.

**Beta –** measures an investment's sensitivity to market movements and is used to evaluate market-related, or systematic risk. Beta is a measure of the linear relationship, over time, of the investment's returns and those of its asset category benchmark. Beta is computed by regressing the investment's excess returns over the risk-free rate (cash proxy) against the excess returns of the fund's asset category benchmark over the risk free rate. An investment that is as equally volatile as the market will have a Beta of 1.0; an investment half as volatile as the market will have a Beta of 0.5; and so on. A Beta higher than 1.0 indicates that the fund is more volatile than the market.

**Correlation (R)** - represents the degree to which investments move in tandem with one another and is a critical component of diversified portfolio construction. The Correlation varies between a minimum of -1 (move in opposite direction) and a maximum of 1 (completely correlated). Lower Correlations enhance diversification. An R of less than 0.3 is often considered low Correlation.

Deferred Load - is a back-end sales charge that is imposed when an investor sells an investment. This is most often charged as a percentage of assets as a commission to brokers for selling the fund.

Distribution of Excess Returns - displays an arrangement of statistical data that exhibits the frequency of occurrence of the investment's returns in excess of the fund's benchmark.

**Down Market (Mkt) Capture Ratio** - measures an investment's performance in down markets relative to its asset category benchmark. A down market is one in which the benchmark's return is less than zero. The lower the investment's Down Market Capture Ratio, the better the investment protected capital during a market decline. A negative Down Market Capture Ratio indicates that an investment's returns rose while its assigned benchmark declined.

Down Market Average Return - represents average monthly returns over a stated time period in which the market(benchmark) earned a negative return.

**Downside Risk (Semi Standard Deviation, Semi StdDev, or Downside Deviation)** - identifies volatility solely on the down side. Downside Risk measures the variability of returns below zero, whereas Standard Deviation attributes volatility in either direction to risk. The Downside Risk method calculates the deviations below zero for each observed return. Each time a return falls below zero, the sum is divided by the number of observations and the square root is taken. This result is then shown on an annualized basis.

Excess - denotes that a statistic is being measured relative to the fund's asset category benchmark. The data set analyzed consists of the periodic differences between the investment's measure and that of its asset category benchmark.

Expense Ratio – is often referred to as the Net Expense Ratio and is obtained from a fund's prospectus. Prospectus report expense ratios reflect the actual fees charged during a particular fiscal year. For Variable Annuity (Sub-Accounts) and the Group Annuity (IGSA) funds, the Net Expense field on the report will reflect Total Net Expense, as these products also include an insurance expense. The prospectus expense ratio for a fund-of-funds consists of only a wrap or sponsor fee. The expense ratio is the percentage of assets deducted each fiscal year for fund expenses, including 12b-1 fees, management fees, administrative fees, operating costs, and all other asset-based costs incurred by a fund. Portfolio transaction fees, or brokerage costs, as well as initial or deferred sales charges are not



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included in the expense ratio. The expense ratio, which is deducted from the fund's average net assets, is accrued on a daily basis. If the fund's assets are small, its expense ratio can be quite high because the fund must meet its expenses from a restricted asset base. Conversely, as the net assets of the fund grow, the expense percentage should ideally diminish as expenses are spread across the wider base. Funds can also opt to waive all or a portion of the expenses that make up their overall expense ratio, referred to as **Exp Waiver** in this report. If you have any questions about the expense waiver type, amount, or expiration date, contact your UBS Consultant. The **Gross Expense Ratio** represents the total gross expenses (net expenses with waivers added back in) divided by the fund's average net assets. If it is not equal to the net expense ratio, the gross expense ratio portrays the fund's expenses had the fund not waived a portion, or all, of its fees. Thus, to some degree, it is an indication of fee contracts. Some fee waivers have an expiration date; other waivers are in place indefinitely.

Front Load - is an initial, or front-end, sales charge and a one-time deduction from an investment made into the fund. The sales charge serves as a commission for the broker who sells the fund.

**Fund Composition-** is a breakdown of a fund's portfolio holdings, as of the date listed, into general investment classes. Cash encompasses both actual cash and cash equivalents (fixed-income securities with a maturity of one year or less) held by the portfolio plus receivables minus payables. Stocks include only the portfolio's common stocks. Bonds include everything from government notes to high-yield corporate bonds. "Other" includes preferred stocks (equity securities that pay dividends at a specific rate) as well as convertible bonds and convertible preferreds, which are corporate securities that are exchangeable for a set amount of another form of security (usually common shares) at a pre-stated price. "Other" also denotes all those not-so-neatly categorized securities, such as warrants and options. When listed, U.S. stocks reflects the portfolio invested in domestic companies, while Non-U.S. Stocks reflects the portfolio invested in Non-U.S. companies.

Fund Inception Date - is the date on which the fund began its operations.

GIC Sectors – jointly developed by Standard & Poor's and MSCI/Barra, the Global Industry Classification Standard (GICS®) was established as a global standard for categorizing companies into sectors and industries. The GICS methodology has been commonly accepted as an industry analysis framework for investment research, portfolio management and asset allocation. GICS was designed to classify a company according to its principal business activity. To make this determination, Standard & Poor's and MSCI/Barra use revenues as a key measure of a company's business activity. Earnings and market perception; however, are also important factors in the classification process and are taken into account during the review process.

Information Ratio - a measure of value added by an investment manager. It is the ratio of (annualized) excess return above its asset category benchmark to (annualized) Tracking Error. Excess return is calculated by linking the difference of the manager's return for each period minus its asset category benchmark's return for each period, then annualizing the result.

Manager Tenure - the number of years that the current manager has been the portfolio manager of the fund. For funds with more than one manager, average tenure is shown. If there is only one manager and he/she has been at the fund for less than six months (and there is biographical information available), a dash will appear.

Max Drawdown - is the maximum loss incurred by a portfolio during a specified time period. It is used to measure the 'worst case scenario' of investing in a portfolio at the worst possible time.

Morningstar Rating<sup>™</sup> - is calculated for funds with at least a three year history. It is calculated based on a Morningstar Risk-Adjusted Return measure that accounts for variation in a fund's monthly performance, placing more emphasis on downward variations and rewarding consistent performance. The top 10% of funds in each category receive 5 stars, the next 22.5% receive 4 stars, the next 35% receive 3 stars, the next 22.5% receive 2 stars and the bottom 10% receive 1 star. The Overall Morningstar Ratings for funds in each category are derived from a weighted average of the performance figures associated with three-, and if available, five- and 10-year Morningstar Rating metrics. Unregistered group variable annuities and registered group variable annuities that are solely available for use in qualified plans are rated and ranked based on their position within the bell curve of the open-end fund peer group (a.k.a. category), rather than the variable annuity subaccount peer group. These ratings and ranks are calculated by using an overlay of the open-end fund peer group break points and therefore do not contribute to the category average or number of funds within the peer group.

Morningstar Sector Weighting - illustrates the percentage of a fund's equity assets invested in each of the 11 major industry sub-classifications, grouped by three "super sectors": Cyclical, Sensitive and Defensive. The broad sectors are broken down further as follows: Cyclical includes Basic Materials, Consumer Cyclical, Financial Services, and Real Estate; Sensitive includes Communication Services, Energy, Industrials, and Technology; and Defensive includes Healthcare, Consumer Defensive, and Utilities.

Morningstar Style Box- is a nine-square grid that provides a graphical representation of the "investment style" of stocks and mutual funds. For stocks and stock funds, it classifies securities according to market capitalization (the vertical axis) and growth and value factors (the horizontal axis). Fixed income funds are classified according to credit quality (the vertical axis) and sensitivity to changes in interest rates (the horizontal axis).

**MPT Statistics (Modern Portfolio Theory) –** measures a fund's relative risk, based on a least-squares regression of a fund's excess returns on the excess returns of a market index. Alpha, Beta, and R-squared are examples of modern-portfolio-theory measures; standard deviation is not considered an MPT statistic because it is not generated through the same formula or mathematical analysis as are the other three statistics.

Net Assets - is recorded in millions of dollars and represents a fund's total asset base, net of fees and expenses.

Peer Group – a universe of funds similar in portfolio characteristics and capitalizations as defined by Morningstar Inc. Throughout the report the funds are grouped into peer groups based on their respective asset class category as assigned by Morningstar or UBS.



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**Peer Group Ranks:** Each fund is ranked within a universe of funds similar in portfolio characteristics and capitalizations as defined by Morningstar Inc., with 1 being the highest percentile and 100 being the lowest, relative to peers. The funds are grouped into quartile "bands": the first band represents the 5<sup>th</sup>-25<sup>th</sup> percentile; the second, the 25<sup>th</sup>-50<sup>th</sup>; the 3<sup>rd</sup>, the 50<sup>th</sup> -75<sup>th</sup>; and the final, the 75<sup>th</sup>-95<sup>th</sup>. The top and bottom 5% of funds are removed from the peer bands for reporting purposes only (but not for calculation purposes) as they are considered outliers. When ranked based on performance, the best performing funds appear in the top quartile. When ranked based on expense ratio and risk, the funds with the lowest relative (fees and risk) values would appear in the top quartile. If a fund has a rank of 95, it can be seen as if there are 95% other funds that are superior to it for the specified analytic.

Peer Expense Rank, Expense Rank, or Expense Ratio Rank – is assigned to each fund by MPI based on the fund's net prospectus expense ratio. Funds with the lowest expenses appear in the top quartile.

Peer Median Net Expense Ratio - is the median expense ratio of the peer group category (See Expense Ratio and Peer Group).

**Peer Group Median -** is intended to depict the midpoint value within a peer group. The 50<sup>th</sup> percentile indicates the middle number in a sorted list of peer results. The median is sometimes used as opposed to the mean when there are outliers in the sequence that might skew the average of the values as the median of a sequence can be less affected by outliers than the mean.

**Peer Return Rank** – is owned and calculated by MPI. The peer return rank is designed to provide a rank of performance returns for each fund among its peer group universe and is based on 3-month, year-to-date, one, three, five, seven, and ten year annualized periods. MPI ranks each fund based on average annual total returns assuming reinvestment of dividends and capital gains, distributions, at net asset value and the deduction of all fund expenses. Peer return ranks do not include the effect of fund sales charges. Ranking results would have been different and can have been less favorable had sales charges been included. A high rank does not necessarily imply that a fund achieved positive results for the period. Excess returns do not necessarily imply positive results. Past performance is no guarantee of future results. The quartile rank graphs illustrate which quartile the fund is in relative to the assigned peer group (see Peer Group Ranks). The best performing funds are found in the top quartile.

MPI uses a fund's Morningstar categories (or an alternate category established by UBS) to calculate the ranks. The number of funds in each category is provided with the associated funds.

Peer Risk Rank or Risk Rank or Standard Deviation Rank - The Risk Rank calculation is based on three, five, and ten year annualized periods. With 1 being the highest percentile and 100 being the lowest, compared to peers. The risk rank uses standard deviation for each fund for the share class identified among its peer group universe. The quartile rank graphs illustrate which quartile the fund is in relative to the assigned peer group (see Peer Group Ranks). Funds with the lowest risk appear in the top quartile.

Peer Risk Adj (Sharpe Ratio) Rank - Is based on a 3 month, year-to-date, one, three, five, seven, and ten year annualized periods. The peer return rank is designed to provide a rank of Sharpe Ratio for each fund among its peer group universe (see Peer Group Rank). The Sharpe Ratio is calculated by using standard deviation and excess return to determine reward per unit of risk. The higher the Sharpe Ratio, the better the portfolio's historical risk-adjusted performance.

Peer Target Date Asset Allocation Rank or Target Date Allocation Rank (Equity Glide Path versus Peer Group) – The target date asset allocation table ranks the asset breakdown of the Target Date Fund family relative to its peers. The asset breakdown is based on a "look through" of the underlying holdings which are classified by Morningstar and grouped into four general investment groups: Cash, Equities (US and Non-US Equities), Bonds (US and Non-US Bonds) and Other. Each column in the table ranks a specified target date fund in the series against its corresponding Morningstar Target Date peer group . For example, the "2040" column compares the Target Date 2040 fund against the Morningstar Target Date 2040 peer group. The quartile rank graphs illustrate which quartile the fund is in relative to the assigned peer group (see Peer Group Ranks). The fund with the highest holdings-based exposure to equities will be in the top quartile.

**Performance -** expressed in percentage terms, Morningstar's calculation of total return is determined each month by taking the change in monthly net asset value (NAV), reinvesting all income and capital-gains distributions earned over that month, and then dividing this total by the starting NAV. Reinvestments are made using the actual reinvestment NAV, and daily payoffs are reinvested monthly. Unless otherwise noted, Morningstar does not adjust total returns for sales charges (such as front-end loads, deferred loads and redemption fees), preferring to give a clearer picture of a fund's performance. The total returns do account for management, administrative, 12b-1 fees and other costs taken out of fund assets. Total returns for periods longer than one year are expressed in terms of compounded average annual returns (also known as geometric total returns), affording a more meaningful picture of fund performance than non-annualized figures.

Price/Earnings Ratio (P/E Ratio) - is a stock's current price divided by the company's trailing 12-month earnings per share from continuous operations. A fund's price/earnings ratio can act as a gauge of the fund's investment strategy in the current market climate, and whether it has a value or growth orientation. A high P/E usually indicates that the market will pay more to obtain the company's earnings because it believes in the firm's ability to increase its earnings. Companies in industries enjoying a surge of popularity (e.g.: telecommunications, biotechnology) tend to have high P/E ratios, reflecting a growth orientation. (P/Es can also be artificially inflated if a company has very weak trailing earnings, and thus a very small number in this equation's denominator.) A low P/E indicates the market has less confidence that the company's earnings will increase; however, a fund manager or an individual with a 'value investing' approach could believe such stocks have an overlooked or undervalued potential for appreciation. More staid industries, such as utilities and mining, tend to have low P/E ratios, reflecting a value orientation.

Prospectus Benchmark - an investment's primary benchmark as stated in the prospectus. If a primary benchmark is not given by a fund, this field will be blank.

Prospectus Objective - indicates a particular fund's investment goals, based on the wording in a fund's prospectus.



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**Returns-Based Style Analysis/Exposure -** was developed by Nobel Laureate William F. Sharpe as an alternative method for determining a fund's style without requiring any information about the individual securities held in the investment's portfolio. The underlying principle behind this analysis is that the style of a fund can be determined by analyzing the total return pattern of the fund's portfolio. For example, if a fund's return pattern were identical to the return pattern of a Small Cap Growth benchmark, the fund could be viewed as a Small Cap Growth fund. Based on a mathematical formula which considers the performance benchmarks that are most highly correlated with the total returns of the portfolio, returns-based style analysis will be used to assess a fund's true investment style. Returns-based style analysis compares an investment's returns to the returns of certain indices. These comparisons imply which index each investment is most similar to, and which characteristics that investment is most likely to exhibit. The "Manager Style (36-Month Moving Windows, Computed Monthly)" chart includes points of varying sizes, where a smaller point represents an earlier moving window. The Russell Generic Corners include the following indices: Russell 1000 Value, the Russell 1000 Growth, Russell 2000 Value, and Russell 2000 Value. The style analysis included in this report can assist in evaluating the actual style and performance of various fund choices in the plan.

**Rolling time periods** - Rolling time periods are typically used to measure consistency of data for a given criterion; the start date and end date both move forward together. The length of time periods are set and sometimes referred to as the window (for example – trailing 3 months, 12 months, or 5 years) and the increment of measurement is also set (for example – monthly, quarterly, or annually). Each datapoint can be plotted on a graph or all data points can be averaged to create a final average value. A fund's final average value can also be ranked relative to it's respective category's final average value.

As an illustration, for a 5-year rolling performance average, a rolling period is calculated each month. Each data point then calculates an Annualized return (Geometric Average) for the previous 60 months. There is a current maximum of 96 data points which are averaged at the end to create an end value. The funds are then ranked based on this final average value.

Sectors - are depicted using one of two methodologies: the Morningstar methodology or the GICS methodology. "Sectors" generally refer to Morningstar Sectors, unless otherwise indicated

Sharpe Ratio - indicates the excess return per unit of total risk as measured by Standard Deviation. It is a ratio of the arithmetic average of excess returns over the risk free rate to the Standard Deviation. The Sharpe Ratio is a measure of the premium earned for the risk incurred by the portfolio.

Since Inception (SI) - reflects the fund's performance from the inception date for the share class (see fund inception date). See Pre-Inception Returns for additional information.

**Sortino Ratio** - a variation of the Sharpe ratio that differentiates harmful volatility from general volatility by replacing standard deviation with downside deviation. The Sortino ratio is the excess return over the risk-free rate divided by downside semi-variance, and so it measures the return of an investment per unit of "bad" risk. (Volatility caused by negative returns is considered bad or undesirable by an investor, while volatility caused by positive returns is good or acceptable.) In this way, the Sortino ratio can help an investor assess risk.

Standard Deviation (StdDev) - measures the extent to which observations in a series vary from the arithmetic mean of the series. The Standard Deviation of a series of asset returns is a measure of volatility or risk of the asset.

#### Standard Deviation Rank - See Peer Risk Rank

Style Exposures - are the output from Returns Based Style Analysis. Expressed in percentage terms, they show a fund's exposure (weight) to a specific set of factors.

Style Drift - measures the variability of style over time. A Style Drift of 0 indicates perfect style consistency and is equivalent to buying and rebalancing the indices that constitute the style basis each period. Style drift is designed to measure style inconsistency. A style drift of 100 indicates very little if any consistency in style.

Style Map - plots the historical exposures of a fund's style across appropriate dimensions, such as growth vs. value for equity funds and credit quality for fixed income funds.

Style R-Squared - resembles the Benchmark R-Squared Calculation except that market volatility is defined by the style portfolio and not the benchmark. The style portfolio is a custom benchmark created by weighting a set of indices through returns-based style analysis that reflect the style of the fund.

Target Date Asset Allocation – shows the asset breakdown of the Target Date Fund family based on a "look through" of the underlying holdings which are classified by Morningstar and groups them into four general investment groups: Cash, Equities (US and Non-US Equities), Bonds (US and Non-US Bonds) and Other. Other includes preferred stocks (equity securities that pay dividends at a specific rate) as well as convertible bonds and convertible preferred, which are corporate securities that are exchangeable for a set amount of another form of security (usually common shares) at a pre-stated price. Other also denotes all those not-so-neatly categorized securities, such as warrants and options. The Target Asset Allocation breakdown is calculated using rescaled long-only holdings.

Top Ten Holdings - a fund's ten largest individual security holdings and their percentage share of the total fund's market value.

Tracking Error (Excess Standard Deviation)/PEER - a measure of how closely an investment's returns track the returns of the Market Index. It is the annualized Standard Deviation of the differences between the investment's and the associated index's returns. If an investment tracks its index closely, then Tracking Error will be low. If an investment tracks its index perfectly, then Tracking Error will be zero. Within the report, a fund's Tracking Error to the benchmark is also compared to the Tracking Error of all funds in the same peer group and assigned a percentile rank. The value for the Median Peer's Tracking Error is also provided for comparison purposes.



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**Turnover Ratio** - a measure of the fund's trading activity, which is computed by taking the lesser of purchases or sales (excluding all securities with maturities of less than one year) and dividing by average monthly net assets. A turnover ratio of 100% or more does not necessarily suggest that all securities in the portfolio have been traded. In practical terms, the resulting percentage loosely represents the percentage of the portfolio's holdings that have changed over the past year. A low turnover figure (20% to 30%) would indicate a buy-and-hold strategy. High turnover (more than 100%) would indicate an investment strategy involving considerable buying and selling of securities. The figure is culled directly from the financial highlights of the fund's annual report.

**Up-Down Capture Ratio** – compares an investment's performance when its asset category benchmark returns are positive relative to an investment's performance when the asset category benchmark returns are negative by measuring the difference between the Up Market Capture Ratio and the Down Market Capture Ratio via the subtraction method. The greater the Up-Down Capture Ratio, the more the investment participated in up markets and protected in down markets.

Up Market (Mkt) Capture Ratio - is a measure of a product's performance in up markets relative to the performance of the product's asset category benchmark. An up market is one in which the market's (benchmark) return is greater than or equal to zero. The higher the investment's Up Market Capture Ratio, the better the investment performed in a rising market environment.

Up Market Average Return- represents average monthly returns over a stated time period in which the market (benchmark earned a positive return).

YTD - Year to Date.

### **BENCHMARK DEFINITIONS**

Barclays Govt/Corp 1 Yr Duration TR USD - measures the performance of investment grade, U.S. denominated, fixed-rate securities excluding STRIPS, TIPS and floaters. Its minimum index rating is A3 and the max maturity is 5 years.

BBgBarc EM Local Currency Government Index, which is designed to provide a broad measure of the performance of local currency Emerging Markets (EM) debt.

BBgBarc Municipal TR USD - measures the performance of the Bloomberg Barclays U.S. Municipal bond, which covers the USD-denominated Long-Term tax exempt bond market with four main sectors: state and local general obligation bonds, revenue bonds, insured bonds and prerefunded bonds.

BBgBarc US Agg Bond TR USD - measures the performance of investment grade, U.S. dollar-denominated, fixed-rate taxable bond market, including Treasuries, government-related and corporate securities, MBS (agency fixed-rate and hybrid ARM passthroughs), ABS, and CMBS. It rolls up into other Barclays flagship indices, such as the multi-currency Global Aggregate Index and the U.S. Universal Index, which includes high yield and emerging markets debt.

BBgBarc US Corp Bond TR USD - measures the performance of the investment grade, U.S. dollar-denominated, fixed-rate, taxable corporate bond market. It includes USD-denominated securities publicly issued by U.S. and non-U.S. industrial, utility, and financial issuers that meet specified maturity, liquidity, and quality requirements.

BBgBarc US Government Long TR USD - measures the performance of the U.S. Treasury and U.S. Agency Indices with maturities of 10 years and greater, including Treasuries and U.S. agency debentures. It is a component of the U.S. Government/Credit Index and the U.S. Aggregate Index.

BBgBarc US Govt 1-3 Yr TR USD - measures the performance of the U.S. Treasury and U.S. Agency Indices with maturities of 1-3 years, including Treasuries and U.S. agency debentures. It is a component of the U.S. Government/Credit Index and the U.S. Aggregate Index.

BBgBarc US Govt Interm TR USD - measures the performance of the U.S. Treasury and U.S. Agency debentures with maturities of 1-10 years. It is a component of the U.S. Government/Credit Index and the U.S. Aggregate Index.

BBgBarc US Govt/Credit 1-3 Yr TR USD - index measures the performance of non-securitized component of the U.S. Aggregate Index with maturities of 1-3 years, including Treasuries, governmentrelated issues and corporates. It is a subset of the U.S. Aggregate Index.

BBgBarc US Treasury US TIPS TR USD - measures the performance of rules-based, market value-weighted, inflation-protected securities issued by the U.S. Treasury. It is a subset of the Global Inflation-Linked Index (Series-L).

Bloomberg Commodity TR USD - measures the performance of future contracts on physical commodities which traded on US exchanges and London Metal Exchange. The commodity weightings are based on production and liquidity, subject to weighting restrictions applied annually.

**CBOE S&P 500 BuyWrite BXM** - measures the performance of a portfolio that engages in a buy-write strategy using S&P 500 index call options. It is a passive total return index based on selling the near-term, near-the-money S&P 500 Index (SPX) call option against the S&P 500 stock index portfolio each month. The SPX call that is sold (or written) will have approximately one month remaining to expiration, with an exercise price just above the prevailing index level (i.e., slightly out of the money). The premium collected from the sale of the call is added to the portfolio's total value. The SPX call is held until its expiration, at which time a new one-month, near-the-money call is written. The expired option, if exercised, is settled in cash.



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# Cobb County Definitions

Credit Suisse Mgd Futures Liquid TR USD - seeks to gain broad exposure to the Managed Futures strategy using a pre-defined quantitative methodology to invest in a range of asset classes including: equities, fixed income, commodities and currencies.

DJ Brookfld Global Infra TR USD - measures the stock performance of pure-infrastructure companies domiciled globally. The index covers all sectors of the infrastructure market. It is weighted by float-adjusted market capitalization.

DJ US Moderate TR USD - measures the performance of returns on its total portfolios with a target risk level of a Moderate-investor willing to take 60% of all stock portfolio risk. It is made up of composite indices representing the three major asset classes: stocks, bonds and cash. The weightings are rebalanced monthly to maintain the target level. The index is a subset of US series of Dow Jones Relative Risk Indices.

DJ US Technology TR USD - measures the performance of all US stocks in the Dow Jones US Index classified into technology sector. The sector classifications is defined by the proprietary classification system which used by S&P Dow Jones. It is a free-float weighted index.

FTSE EPRA/NAREIT Global NR USD - measures the performance of listed real estate companies and REITS in both developed and emerging markets. It includes a range of regional and country indices, capped indices, Dividend+ indices, Global Sectors, Investment Focused and REITs and Non-REITs series.

FTSE NAREIT Equity REITs TR USD- measures the performance of REIT performance indexes that spans the commercial real estate space across the US economy. It contains all Equity REITs not designated as Timber REITs or Infrastructure REITs. The index is market-capitalization weighted.

FTSE WGBI NonUSD Hdg USD- measures the performance of fixed-rate, local currency, investment-grade sovereign bonds of all WGBI countries except the United States and is stated in US dollar terms. It is a subset of FTSE World Government Bond Index (WGBI).

FTSE WGBI NonUSD USD - measures the performance of fixed-rate, local currency, investment-grade sovereign bonds of all WGBI countries except the United States and is stated in US dollar terms. It is a subset of FTSE World Government Bond Index (WGBI).

ICE BofAML Fxd Rate Pref TR USD - measures the performance of fixed rate US dollar denominated preferred securities issued in the US domestic market. Qualifying securities must have an investment grade rating and must have an investment grade rated country of risk.

ICE BofAML US 3M Trsy Bill TR USD- measures the performance of a single issue of outstanding treasury bill which matures closest to, but not beyond, three months from the rebalancing date. The issue is purchased at the beginning of the month and held for a full month; at the end of the month that issue is sold and rolled into a newly selected issue.

ICE BofAML US Convt Bonds TR USD - measures the performance of USD-denominated convertibles that are sold in the US market and publicly traded in the US including coupon bonds, OIDs, and zeros. Qualifying securities must have at least \$50mn in market value. Qualifying companies must have a significant revenue footprint in the US. It is capitalization-weighted.

ICE BofAML US High Yield TR USD - measures the performance of short-term US dollar denominated below investment grade corporate debt publicly issued in the US domestic market. Qualifying securities must have at least 18 months to final maturity at the time of issuance, at least one year remaining term to final maturity as of the rebalancing date, a fixed coupon schedule and a minimum amount outstanding of \$100 million. It is capitalization-weighted.

ICE BofAML USD 3M Dep OR CM TR USD - measures the performance of a synthetic asset paying Libor to a stated maturity. It is based on the assumed purchase at par of a synthetic instrument having exactly its stated maturity and with a coupon equal to that days fixing rate. That issue is assumed to be sold the following business day (priced at a yield equal to the current day fixing rate) and rolled into a new instrument.

JPM EMBI Global TR USD - measures the performance of fix-rate for external-currency denominated debt instruments including brady bonds, loans, Eurobonds in emerging markets. Countries covered are Argentina, Brazil, Bulgaria, Mexico, Morocco, Nigeria, the Philippines, Poland, Russia, and South Africa. It covers more of the eligible instruments than the EMBI+ by relaxing somewhat the strict EMBI+ limits on secondary market trading liquidity.

Morningstar Gbl Lng/Shrt Curr TR USD - measures the performance of global highly liquid exchange listed futures contracts in currencies. It has the ability to go both long and short, providing greater flexibility and the potential to capture both upward and downward movements in price.

Morningstar MLP Composite TR USD - measures the performance of US publicly trading energy master limited partnerships. It is a diversified, distribution-dollar weighted index that targets the top 97% of investable universe by float market capitalization.

Morningstar Mod Tgt Risk TR USD - The Morningstar Target Risk Index family is designed to meet the needs of investors who would like to maintain a target level of equity exposure through a portfolio diversified across equities, bonds and inflation-hedged instruments. The Morningstar Moderate Target Risk Index seeks approximately 60% exposure to global equity markets.

Morningstar US Market TR USD - measures the performance of US securities and targets 97% market capitalization coverage of the investable universe. It is a diversified broad market index.



# Cobb County Definitions

MSCI AC Far East ex Japan NR USD - measures the performance of the large and mid-cap segments of the Far East region, excluding Japan equity securities, including developed and emerging market. It is free float-adjusted market-capitalization weighted.

MSCI ACWI ex USA Growth NR USD - measures the performance of the growth large and mid-cap segments of the particular regions, excluding USA equity securities, including developed and emerging market. It is free float-adjusted market-capitalization weighted.

MSCI ACWI ex USA NR USD - measures the performance of the large and mid-cap segments of the particular regions, excluding USA equity securities, including developed and emerging market. It is free float-adjusted market-capitalization weighted.

MSCI ACWI ex USA Value NR USD - measures the performance of the value large and mid-cap segments of the particular regions, excluding USA equity securities, including developed and emerging market. It is free float-adjusted market-capitalization weighted.

MSCI AC World Large Cap Growth Index – measures the performance of large cap securities exhibiting overall growth style characteristics across particular developed and emerging markets countries. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate, long-term historical EPS growth trend and long-term historical sales per share growth trend. It is free float-adjusted market capitalization weighted.

MSCI AC World Large Cap Index - measures the performance of large cap representation across particular developed and emerging markets countries. It is free float-adjusted market capitalization weighted.

MSCI AC World Large Cap Value Index – measures the performance of large cap securities exhibiting overall value style characteristics across particular developed and emerging markets countries. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield. It is free float-adjusted market capitalization weighted.

MSCI AC World SMID Cap Index - measures mid and small cap representation across particular developed and emerging markets countries. It is free float-adjusted market capitalization weighted.

MSCI China NR USD - measures the performance of the large and mid-cap segments of emerging China equity securities. It is free float-adjusted market-capitalization weighted.

MSCI EM (Emerging Markets) NR USD - measures the performance of the large and mid-cap segments of emerging market equity securities. It is free float-adjusted market-capitalization weighted.

MSCI EM Latin America NR USD - measures the performance of the large and mid-cap segments of emerging Latin America equity securities. It is free float-adjusted market-capitalization weighted.

MSCI Europe NR USD - measures the performance of the large and mid-cap segments of developed Europe equity securities. It is free float-adjusted market-capitalization weighted.

MSCI India NR USD - measures the performance of the large and mid-cap segments of India equity securities. It is free float-adjusted market-capitalization weighted.

MSCI Japan NR USD - measures the performance of the large and mid-cap segments of Japan equity securities. It is free float-adjusted market-capitalization weighted.

MSCI Pacific NR USD - measures the performance of the large and mid-cap segments of the developed Pacific region equity securities. It is free float-adjusted market-capitalization weighted.

MSCI World ex USA SMID Cap NR USD - measures the performance of small and mid-segment of World excluding USA equity securities. It captures mid and small representation across 22 of 23 developed market countries and 21 emerging markets countries and it covers approximately 28% of the free float-adjusted market capitalization in each country. The index is free float-adjusted market capitalization weighted.

MSCI World/Metals & Mining NR USD - measures the performance of the large and mid-cap metals and mining (industry) segments of world equity securities. It is constructed using GICS-Global Industry Classification Standard. The index is free float-adjusted market-capitalization weighted.

Russell 1000 Growth TR USD - measures the performance of the large-cap growth segment of the US equity securities. It includes the Russell 1000 index companies with higher price-to-book ratios and higher forecasted growth values. It is market-capitalization weighted.

Russell 1000 TR USD - measures the performance of the large-cap segment of the US equity securities. It is a subset of the Russell 3000 index and includes approximately 1000 of the largest securities based on a combination of their market cap and current index membership.

Russell 1000 Value TR USD - measures the performance of the large-cap value segment of the US equity securities. It includes the Russell 1000 index companies with lower price-to-book ratios and lower expected growth values. It is market-capitalization weighted.

Russell 2000 Growth TR USD - measures the performance of small-cap growth segment of the US equity universe. It includes those Russell 2000 companies with higher price-to-value ratios and higher forecasted growth values. It is market-capitalization weighted.



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Russell 2000 TR USD - measures the performance of the small-cap segment of the US equity universe. It is a subset of the Russell 3000 and includes approximately 2000 of the smallest securities based on a combination of their market cap and current index membership.

Russell 2000 Value TR USD - measures the performance of small-cap value segment of the US equity universe. It includes those Russell 2000 companies with lower price-to-book ratios and lower forecasted growth values. It is market-capitalization weighted.

Russell Mid Cap Growth TR USD - measures the performance of the mid-cap growth segment of the US equity universe. It includes Russell midcap index companies with higher price-to-book ratios and higher forecasted growth values. It is market-capitalization weighted.

Russell Mid Cap TR USD- measures the performance of the mid-cap segment of the US equity universe. It is a subset of Russell 1000 index and includes approximately 800 of the smallest securities based on a combination of their market cap and current index membership. The index represents approximately 31% of the total market capitalization of the Russell 1000 companies.

Russell Mid Cap Value TR USD- measures the performance of the mid-cap value segment of the US equity universe. It includes Russell midcap index companies with lower price-to-book ratios and lower forecasted growth values. It is market-capitalization weighted.

**S&P 1500 Cons Discretionary TR** - measures the performance of consumer discretionary (sector) segment of US equity securities. It comprises those companies included in the S&P Composite 1500 that are classified as members of the Global Industry Classification Standard (GICS) Consumer Discretionary (sector).

S&P 1500 Cons Staples TR - measures the performance of consumer staples (sector) segment of US equity securities. It comprises those companies included in the S&P Composite 1500 that are classified as members of the Global Industry Classification Standard (GICS) Consumer Staples (sector).

S&P 1500 Energy TR - measures the performance of energy (sector) segment of US equity securities. It comprises those companies included in the S&P Composite 1500 that are classified as members of the Global Industry Classification Standard(GICS) Energy (sector).

S&P 1500 Financials TR - measures the performance of Financials (sector) segment of US equity securities. It comprises those companies included in the S&P Composite 1500 that are classified as members of the Global Industry Classification Standard (GICS) Financials (sector).

S&P 1500 Health Care TR - measures the performance of health care (sector) segment of US equity securities. It comprises those companies included in the S&P Composite 1500 that are classified as members of the Global Industry Classification Standard (GICS) Health Care (sector).

S&P 1500 Industrials TR - measures the performance of industrials (sector) segment of US equity securities. It comprises those companies included in the S&P Composite 1500 that are classified as members of the Global Industry Classification Standard (GICS) Industrials (sector).

S&P 1500 Telecom Services TR - measures the performance of Telecom Services (sector) segment of US equity securities. It comprises those companies included in the S&P Composite 1500 that are classified as members of the Global Industry Classification Standard (GICS) Telecom Services (sector).

S&P 1500 Utilities TR - measures the performance of Utilities (sector) segment of US equity securities. It comprises those companies included in the S&P Composite 1500 that are classified as members of the Global Industry Classification Standard(GICS) Utilities (sector).

**S&P 500 TR USD -** measures the performance of 500 widely held stocks in US equity market. Standard and Poor's chooses member companies for the index based on market size, liquidity and industry group representation. Included are the stocks of industrial, financial, utility, and transportation companies. Since mid-1989, this composition has been more flexible and the number of issues in each sector has varied. It is market capitalization-weighted.

S&P 500 VIX Short Term Futures TR USD - measures the performance of return from a daily rolling long position in the first and second month VIX futures contracts. It is S&P 500 VIX Futures Index Series which seeks to model the outcome of holding long and/or short positions in VIX futures contracts or other VIX indices.

**S&P North American Natural Resources TR** - measures the performance of US traded securities that are classified under the Global Industry Classification Standard (GICS) energy and materials (sector) excluding the chemicals (industry) and steel (sub-industry).

S&P/LSTA Leveraged Loan TR - measures the performance of 100 loan facilities drawn from the S&P/LSTA (Loan Syndications and Trading Association) Leveraged Loan Index (LLI). Standard & Poor's chooses these based on market weightings, spreads, and interest payments of the largest facilities in the leveraged loan market.

S&P Target Date Series TR USD - Comprises twelve multi-asset class indices, each corresponding to a particular target retirement date. The asset allocation for each index in the series is determined once a year through survey of large fund management companies that offer target date products. Each index is fully investable, with varying levels of exposure to equities, fixed income and commodities.



## Cobb County Important Information About This Report

This report was generated by Fi360 Inc., based in part on information, data, and calculations from Markov Processes International Inc. (MPI) and fund and fund performance data from Morningstar, Inc.. Fi360, MPI, and Morningstar are not affiliated with UBS Financial Services Inc. The information and calculations provided by Fi360, MPI, and Morningstar are believed to be reliable but are not guaranteed to be accurate or complete.

This report is for general information and plan sponsor use only within the UBS Retirement Plan Consulting Services program and is not for distribution to plan participants. This report is intended to provide information to assist plan sponsors in monitoring the investments on their plan investment menus. Nothing contained in this document is intended to or should be considered or construed to be legal, tax, security, or investment advice, nor an opinion regarding the appropriateness of any investment, nor an offer or solicitation for the purchase or sale of any investment or security. This report should only be considered in conjunction with the actual recommendations and advice of your UBS Consultant; our standard account documents, agreements and disclosures; and the additional factors that warrant consideration for your particular Plan. UBS specifically prohibits the redistribution or reproduction of this material in whole or in part without the prior written permission of UBS. UBS accepts no liability for any redistribution of this document or its contents by third parties.

Performance data quoted in this report represents past performance that does not guarantee future results. Current performance is likely to be lower or higher than the performance data quoted. The investment return and principal value of an investment will fluctuate so that an investor's shares, when redeemed, could be worth more or less than their original cost. Unless explicitly stated otherwise, the performance data shown is for the plan's specific fund share class. Information in this report is not for use in brokerage accounts. Product and performance data, provided by Morningstar and MPI, is as of the date stated, unless otherwise specifically noted. You can obtain the most current performance data by contacting your financial advisor or the fund company at the website shown in the "Fund Facts Sheets" section of this document or by visiting <a href="http://advisor.morningstar.com/familyinfo.asp">http://advisor.morningstar.com/familyinfo.asp</a>.

**UBS Retirement Plan Consulting Services** ("RPCS Program") is an investment advisory program. Details regarding the program including fees, services, features and suitability are provided in the Form ADV Disclosure, which can be obtained from your Financial Advisor or accessed at ubs.com/accountdisclosures.

Fund Information: The fund information contained in this report has been obtained from a variety of sources that are believed to be reliable, but have not been independently verified by UBS.

Mutual Funds are sold by prospectus. You should consider the fund's investment objectives, risk, charges and expenses carefully before you invest. This and other information about the fund can be found in the prospectus. Please read it carefully before investing. The fund's prospectus can be obtained by contacting your financial advisor or the fund company at the website found in the "Fund Fact Sheets" section of this report. If there is any discrepancy between the fund prospectus and the information in this document, you should rely upon the prospectus. There is no guarantee that the fund will be able to successfully implement its investment strategy or realize its investment objective.

Investment Eligibility: UBS only provides advisory services on investments (other than the investments mentioned below) within the RPCS Program. However, it will only recommend investments that have been reviewed by UBS and which are available on your plan's recordkeeper platform ("Program Investments").

Please contact your UBS Consultant for information on Program Investments.

If a plan sponsor elects to include investment options within the plan investment menu that are., individual securities (unmanaged investments), employer securities, self-directed brokerage windows, certain insurance accounts, or similar investments., UBS's services will not include a review of their investment performance or recommendations regarding whether a plan should offer or continue to offer any such investments. UBS does not include any such investment performance information in this report or include the value of any such investments when calculating its fees. Neither UBS nor your UBS Consultant will act as your investment adviser with respect to assets that are not Eligible Investments.

Non-Program Investments Displayed Within the Plan Report: Investment options that are not Program Investments, as well as investment options recently removed from the UBS list of Program Investments are specifically noted in the "Executive Summary" section. These investments are included at your request and such inclusion does not constitute an endorsement that the Plan continue to hold those funds.

**Investment Performance Results:** performance displayed in this report assumes the reinvestment of dividends and capital gains and the deduction of manager fees and other internal expenses associated with the investment. The performance does not reflect the deduction of the sales load that is typically applicable when mutual fund shares are purchased or other transaction fees or the impact of taxes, where applicable. Had the sales load, transaction fees or taxes been included, the results used in this document would have been reduced. Information shown is current as of the most recent quarter-end.

Impact of UBS Consulting Fees over time: The performance displayed in this report does not account for the deduction of investment advisory or consulting fees for the UBS Retirement Plan Consulting Services Program. The payment of these fees will reduce your performance and will have a cumulative effect over time. The net effect of the deduction of advisory fees on annualized performance, and the compounded or cumulative effect over time, is determined by the amount of the fee and the plan's investment performance. For example, for a plan in the RPCS Program that experiences an annual gross performance of 10% but incurs a 2% annual fee that is deducted quarterly on a prorated basis, the plan will experience net annual performance of 7.98%, a reduction of 2.02% per year. Compounding will similarly affect the plan's overall performance on a cumulative basis. Actual performance will likely be lower or higher than the results shown.



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as of 09/30/2023 54 92 of 98 **Pre-inception Returns:** The analysis in this report, if necessary, will be based, in part, on adjusted historical returns for periods prior to the actual inception of a specific fund share class. In such instances, the fund's performance will include pre-inception returns based on historical returns for other fund share classes. While all of the share classes of a particular fund invest in the same securities, the fees and expenses of each share class differ. This causes each share class to reflect different performance.

Pre-inception performance is calculated in one of two ways:

- I. Where the new share class has higher fees: the historical monthly returns of the oldest share class are adjusted to reflect the increase in fees and expenses of the new share class.
- II. Where the new share class has lower fees: the historical monthly returns of the older share class reflect that class' higher fees and expenses. As of the inception date of the new share class, that class' lower fees and expenses are reflected.

While the inclusion of pre-inception data can provide valuable insight into the probable long-term behavior of newer share classes of a fund, investors should be aware that an adjusted historical return can only provide an approximation of that behavior For example, the fee structure and corresponding performance of a retail share class will vary from that of an institutional share class, as retail shares tend to have higher operating expenses and sales charges which reduce overall performance. The operating expenses and sales charges of a fund, broken down by share class, are detailed in the fund's prospectus. Investors should understand that the adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar and MPI Stylus software could differ from those applied by other entities, including the fund itself.

Investment Monitoring: UBS or any of its employees will track or monitor specific investments the Plan makes to determine whether they complement the Plan's Investment Policy. Until such time as an IPS or other investment guideline document is developed and/or provided to the Firm, the Firm will use the initial UBS performance report provided to you as the Plan's review criteria. For all eligible investments within the RPCS Program, UBS monitors the investments to determine whether they are performing at a satisfactory level. As part of its ongoing monitoring, UBS could identify a potential aspect or development with a fund that merits further evaluation which could result in a fund being described as "On Watch". Funds "On Watch" will be monitored for a period of time depending on the length of time needed for UBS to conduct its evaluation and for the fund to address any concerns. The "On Watch" status will not affect the fund's standing on the plan investment menu. If any concerns associated with a fund rise to a level that UBS believes that the fund is scheduled to be removed from the investment menu. UBS will recommend removal or replaced" only when the fund is scheduled to be removed from the investment menu. The views expressed by your Consultant or in this report and iffer or be contrary to the opinions and views expressed in other UBS research publications.

**Custody of Investments Within this Plan Report:** The investments in this report are held at other financial institutions. UBS does not custody the plan's assets and will not execute transactions for the Plan. Information in this report regarding the Plan's holdings and values are based on data provided by your Plan's custodian. UBS has not verified, and is not responsible for, the accuracy or completeness of information regarding assets held at other financial institutions. You should review the account statements and other documentation provided by other financial institutions for their record of holdings, balances, transactions, and security values of assets held in those accounts, as well as notices, disclosures and other information important to you. Those documents also serve as a reference should questions arise regarding the accuracy of the information in this report. UBS Financial Services Inc. SIPC coverage does not apply to assets held at other institutions. You should contact your financial representative at any other financial institution where you hold an account to determine the availability of SIPC coverage, if any.

Benchmarks and Benchmark Selection: Benchmark information is illustrative and relates to historical performance of market indexes and not the performance of actual investments. Indexes are not available for direct investment and reflect an unmanaged universe of securities. Index results reflect the reinvestment of income but do not take into account advisory or transaction fees, the deduction of which would reduce the results shown. Past performance does not guarantee or indicate future results.

A description of the indices included in this document is available in the Definitions section. Morningstar assigns each fund to a particular asset category and assigns a benchmark index for each of those asset categories. Funds are benchmarked to the index that corresponds to the asset category that they belong to. Funds will be benchmarked based on their assigned Morningstar asset category unless UBS determines that it is appropriate to re-categorize a fund after an assessment of the fund's investment style. In such instances, funds will be benchmarked to the index that corresponds with the asset category selected by UBS. Secondary benchmarks can be displayed in addition to the default benchmarks based on your individual circumstances and preferences. UBS assigns category classifications based on our understanding of the investment's allocation, strategy, investment style and our research. Unless passive scoring is turned on (see *Fund Scoring Process*, below), alpha, beta, R-squared and all other risk and return metrics will be calculated based on the fund's prospectus benchmark rather than the asset category benchmark. Depending upon your investment objectives and other factors, the indexs used in this report could be an appropriate measure for comparison purposes, and as such, are represented for illustration only. Your Plan holdings and performance can vary significantly from the index. Your financial advisor can provide additional information about how benchmarks within this report were selected.

UBS considers a variety of fund benchmarks when evaluating a fund's performance, which will include benchmarks identified by the fund, benchmarks identified by Morningstar for the fund's asset category or peer group, or benchmarks identified by UBS Financial Services for various asset categories and could consider benchmarks in addition to or in place of the benchmarks displayed within this report.

Fund Score and Fund Scoring – This report does not present the UBS Fund Score, which has been retired. The Fund Scores illustrated in this report are based on investment monitoring criteria selected by the Plan Sponsor. The Plan Sponsor can also select the weighting for each of the criteria used in the fund score. If specific weightings are not selected, all criteria will be weighted equally. In addition, the Plan Sponsor can, but is not required to, set the number of criteria needed for an investment to "pass" for the quarter. If the Plan Sponsor does not set a "passing" score, the report will still



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identify criteria that were met within the report, as a score for the quarter. All references to a "score" within the report refer to this scoring process, which is set by the Plan Sponsor. Lack of data for a criteria will cause it to not pass. To set or change weightings or "passing" scores for future quarters, please reach out to your UBS Consultant.

UBS does not set the criteria that creates the scoring provided and makes no representations regarding the scores presented. These scores are intended to assist Plan Sponsors and retirement plan fiduciaries in evaluating investment options and easily reviewing fund's performance against the criteria set by the Plan Sponsor. These scores do not constitute fiduciary investment advice alone and should not be used in place of the retirement Plan fiduciaries' prudent review of the investment options or discussion of investment options with your UBS Consultant. The criteria set by the Plan Sponsor and used to generate the scores should not be the only factors considered when choosing to add, remove or maintain an investment option in the plan. See the Definitions section for a description of the Morningstar Ratings contained in the Fund Fact Sheets section of this document.

The Fund Scoring Process – There are three types of fund evaluation methods available: Active, Passive, and Target Date. Active is the default fund scoring option and is available to be utilized for all funds. Passively managed funds, as identified by Morningstar, and/or Target Date Funds can have their own separate scoring and evaluation criteria set by the Plan Sponsor.

The definitions of the criteria available for each type of fund scoring method, and their associated options are contained in the Definitions Section. A list of the criteria utilized by the Plan is listed in the Executive Summary. Each evaluation criteria has a quantitative threshold that determines whether or not that evaluation criteria is met for the fund, based on fund data as of the most current calendar quarter. For example, if the "Manager Tenure is greater than 10 years" criteria is selected, then this evaluation criteria for a fund will meet requirements for the quarter as long as the current fund manager has managed the fund for longer than 10 years. If manager tenure data is 10 or less years or data is missing, then the criteria does not pass. The plan sponsor can also chose to use weightings for the different evaluation criteria.

Target Date Fund Scoring Option - Target Date Fund Scoring can be based on a weighted rank scoring method if the Plan Sponsor determines that is appropriate and adopts Importance Factors and a Scoring Threshold, as described below. When this option is utilized, the score for a target date fund is calculated based on its composite weighted ranking within its peer group.

- Importance Factors are Target Date criteria selected by the Plan Sponsor to be weighted by importance on a 100-point scale. Any single criteria selected can be weighted from 1 to 100 but the total for all weighted criteria must equal 100. A weighted composite ranking within each Target Date Asset Category (e.g. Target Date 2020, or Target Date 2030) is created based on the Importance Factors selected. A weighted ranking means that each Importance Factor is ranked against each fund in its peer group, then weighted according to the Importance Factor weighting selected by the Plan Sponsor, then the weighted rankings are combined to create a single composite fund ranking or fund score. The weighted score, or weighted ranking of each target date fund evaluated, is then adjusted to fit the chosen Scoring Scale and compared to the Scoring Threshold.
- The Scoring Scale will adjust the original weighted composite ranking to fit the Scoring Scale established by the Plan Sponsor. For example, if a calculated weighted composite ranking of a fund was 50 out of the 100 possible score, and the designated scoring scale was 12, the fund would then show a score of 6 in the report (50/100\*12).
- The Scoring Threshold defines what score is required for a fund to "Pass" for the quarter. For example, if the Scoring Scale was 12 and the Scoring Threshold was 7, a fund that scored a 7 or above would pass.

Asset Allocation Section – The Asset Allocation Section lists each fund held by the Plan and is organized by Morningstar asset category. Other categories that are not Morningstar asset categories include:

- Core Holdings: Plan assets that do not fall into a Morningstar asset category because the investment is not a mutual fund or is not tracked by Morningstar. Examples of the types of items that can be included in this category include stable value funds, assets held within a brokerage windows, and company stock.
- Non-Core Holdings: Plan assets that are not investments. Most frequently this category is utilized for in-Plan loans.

The pie chart labeled "% of Assets" represents the composite of the underlying holdings of all funds in the Plan. Definitions of the pie chart components:

- Cash: Cash and fixed-income securities with maturities of less than a year.
- U.S. Stocks: Common equity shares of companies domiciled in the United States.
- Non-U.S. Stocks: Common equity shares of companies domiciled outside of the United States.
- U.S. Bonds: Fixed-income securities issued by companies domiciled in the United States and U.S. governmental bodies (federal, state, and municipal).
- Non-U.S. Bonds: Fixed-income securities issued by companies domiciled outside of the United States and foreign governmental bodies.
- Other: Includes preferred stocks (equity securities that pay dividends at a specific rate) as well as convertible bonds and convertible preferreds (corporate securities that are exchangeable for a set amount of another security, usually common shares, at a pre-stated price). "Other" also includes securities such as warrants and options.
- Unidentified: Includes funds in which the fund itself or the allocation data was not available from Morningstar.

Investment Fee Analysis Section - provides information regarding the internal fund expenses for certain investments within the Plan, as stated in each fund's prospectus or otherwise.

- Core Assets represents asset values of plan investments for which the expense analysis is performed. The Investment Fee Analysis Section provides a net expense ratio for Core Assets which is the weighted average of each investment's expense ratio within Core Assets (excluding custom fund assets).
- Other Core Assets (Custom funds) represents asset values of plan investments for which there is no expense ratio available for expense analysis purposes
- Non-Core Assets represents asset values for certain plan investments that are excluded from the expense calculations such as employer stock, brokerage window assets, loans, etc.

Portfolio Style Section - The Portfolio Style Section provides a series of grids that represent a graphical representation of the "investment style" of Plan investments and include fund name, assets, and the fund score for the most recent period.

- The equity style grid classifies securities according to market capitalization (the vertical axis) and growth and value factors (the horizontal axis).
- The fixed income grid classifies investments according to credit quality (the vertical axis) and sensitivity to changes in interest rates as measured by a bond's duration (the horizontal axis).
- Target Date Funds, Asset Allocation, and Specialty fund types have been placed in separate style categories to distinguish funds assigned to them, as these funds often contain both equity and fixed income holdings.
  - The "Target Date Funds" category contains the assets held in the Plan's target date funds, which are classified in Morningstar's target date asset categories (e.g. Target-Date 2025). The funds are combined and described as the target date series and the total combined assets are listed.
  - The "Asset Allocation" style category includes funds that comprise both equity and fixed income holdings, and contains funds in the following categories: Allocation--15% to 30% Equity, Allocation--30% to 50% Equity, Allocation--50% to 70% Equity, Allocation--70% to 85% Equity, Allocation--85% + Equity, Convertibles, World Allocation, Tactical Allocation.
  - The "Specialty" style category contains the following Morningstar categories: Communications, consumer cyclical, consumer defensive, energy limited partnership, equity energy, equity precious metals, financial, global real estate, health, industrials, infrastructure, miscellaneous sector, natural resources, real estate, technology, utilities.

### **Risk Considerations**

Some of the general risk considerations associated with the investment options included in this report are described below. The descriptions are not meant to be a complete list of all investment risks. For more complete information regarding fees, expenses, risks and restrictions associated with these investments please review the offering documents and marketing materials. Investors should consult their tax advisor about their specific tax situation before investing in any securities. In addition, clients should familiarize themselves with the particular market risks and the other risks associated with the specific investment. All investments contain risk and could lose value.

Offshore Funds: Offshore mutual funds are not registered with the Securities and Exchange Commission and cannot be sold to any person who is a citizen or resident of the United States.

Target Date Funds: Target date funds are funds where the target date is the approximate date when investors plan to start withdrawing their money. Generally, the asset allocation of each fund will change on an annual basis, with the asset allocation becoming more conservative as the fund nears the target retirement date. The principal value of the fund(s) is not guaranteed at any time, including at the target date. Investors should consider factors in addition to age or retirement date, including risk tolerance, personal circumstances, and complete financial situation, prior to investing in a target date fund.

Alternative Investments: Non-traditional asset classes are alternative investments that include hedge funds, private equity, and private real estate (collectively, non-traditional or alternative investments). These investments can be subject to substantial risks (including the risks associated with limited liquidity, the use of leverage, short-sales and concentrated positions), can involve complex structures and strategies, and possibly are not easily valued. The risks of alternative investments should be carefully considered in light of an investor's investment objectives, risk tolerance and financial circumstances. Alternative investments are speculative and entail substantial risks, which can place investor capital at risk. It is possible that alternative investments have not been registered with the Securities and Exchange Commission or under any state securities laws. The market for such investments could be highly illiquid and subjectively valued, and these reports provide values for informational purposes only. Accuracy is not guaranteed. These values, ould differ substantially from prices, if any, at which a unit could be bought or sold and do not necessarily represent the value, you would receive from the issuer upon liquidation. Issuer estimated values, if any, are generally updated on a regular (annual or semi-annual) basis and are supplied to us by the issuer, but can also be calculated based on different information from what is used by third parties to derive their estimated values.

Money Market Funds: An investment in a money market fund is not insured or guaranteed by the FDIC or any other government agency. Although the fund seeks to preserve the value of your investment at \$1.00 per share, it is possible to lose money by investment in the fund.

**Stable Value Funds**: There is no guarantee a stable value portfolio will achieve its investment objectives. Stable value portfolios are not guaranteed by the US government, the Federal Deposit Insurance Corporation (FDIC), the fund company or any other entity. Unit price, yield, duration and return will vary. Although stable value investment contracts seek to reduce the risk of principal loss, investing in a stable value portfolio involves risk, including credit risk, management risk and loss of principal. These risks could result in a decline in the portfolio's value or cause a withdrawal or transfer from a portfolio to occur at less than a participant's invested value. Stable value investment contracts involve several unique risks, which include but are not limited to: a stable value investment contract issuer could default, become insolvent, file for bankruptcy protection, or otherwise be deemed by the Plan's auditor to no longer be financially responsible; an event or condition outside the normal operation of the Plan could occur (including but not limited to Plan changes, employer bankruptcy, significant layoffs, Plant closings, corporate spin-offs, divestitures, or restructurings); some portfolio securities could become



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# Cobb County Important Information About This Report

impaired or default; certain communications from the Plan or the Plan's agents could cause an investment contract to not pay benefits at contract value; or there could be a change in tax law or accounting rules. Any of these risks, if realized, could cause a write-down in the value of a portfolio and a risk of loss of all or a part of a participant's invested value in a portfolio.

**Fixed Income**: Investing in the fixed income market is subject to risks including market, interest rate, issuer, credit, default and inflation risk. An investment in a portfolio could be worth more or less than its original cost when redeemed. Derivatives often involve certain costs and risks such as liquidity, interest rate, market, credit, management, default risk, and the risk that the position could not be closed when most advantageous. Investing in derivatives could lose more than the amount invested.

Variable Annuities: A variable deferred annuity is a long-term financial product designed for retirement purposes. It is a contractual agreement in which payment(s) are made to an insurance company, which agrees to pay out an income or a lump sum amount at a later date. There are fees and charges associated with a variable annuity contract, which include, but are not limited to, operations charges, sales and surrender charges, administrative fees, and additional charges for optional benefits. Variable annuities are sold by prospectus and you should carefully consider important information on the subaccounts' investment objectives, risk, charges and expenses. Please read the prospectus and offering documents carefully before you invest. Your UBS Consultant can provide a copy of the prospectus. For current month-end returns: <a href="http://advisor.morningstar.com/familyinfo.asp">http://advisor.morningstar.com/familyinfo.asp</a>.

Withdrawals from an annuity contract are taxable as ordinary income, not as capital gains and, if taken by a participant prior to age 59 1/2, will likely be subject to an additional 10% federal income tax penalty. Withdrawals could also be subject to surrender charges. Withdrawals will reduce the death benefit, living benefits and cash surrender value. For tax purposes, withdrawals will come from any gain in the contract first. Please see the prospectus for complete details. Amounts in the annuity's variable investment portfolios are subject to fluctuation in value and market risk, including loss of principal.

Unregistered group variable annuities and registered group variable annuities that are solely available for use in qualified Plans are rated and ranked based on their position within the bell curve of the open end fund peer group (a.k.a. category), rather than the variable annuity subaccount peer group. These ratings and ranks are calculated by using an overlay of the open end fund peer group break points and therefore do not contribute to the category average or number of funds within the peer group.

For variable annuity subaccounts, standardized return is total return based on its inception date within the separate account and is adjusted to reflect recurring and non-recurring charges such as surrender fees, contract charges, maximum front-end load, maximum deferred load, maximum M&E risk charge, administration fees, and actual ongoing fund-level expenses. The benchmark used for each individual subaccount performance is an index that has been assigned to the particular manager or fund.

### Scope of our Services

UBS makes various interactive tools, worksheets, white papers, guidebooks, newsletters, research, reports, portfolio analyses and financial Plans and other marketing and disclosure materials (collectively "Materials") available to its Financial Advisors, clients and prospective clients. These Materials are generally provided free of charge.

# The Materials are intended to aid in providing you with information and advice about your Plan. Therefore, the Materials should only be considered in conjunction with the actual advice of UBS, our standard account documents, agreements and disclosures and the additional factors that warrant consideration for your particular Plan, including costs.

If this output is provided as part of a proposal, it is marketing material. You must make independent decisions with respect to any proposals contained within this report. In making those decisions you have reviewed the terms of any Plan with respect to which you are a fiduciary and your obligations to any such Plan under ERISA. This report should be used solely for the purposes of discussion with your prospective UBS Consultant and your independent consideration. UBS does not intend this to be fiduciary or best interest investment advice or a recommendation that you take a particular course of action. If you would like more details about any of the information provided, or personalized recommendations or advice, please contact your UBS Financial Advisor.

Conflicts of Interest. UBS Financial Services Inc. is in the business of establishing and maintaining investment accounts and we will receive compensation from you in connection with investments that you make, as well as additional compensation from third parties whose investments we distribute. This presents a conflict of interest when we recommend that you move your assets to UBS from another financial institution, and also when we make investment recommendations for assets you hold at, or purchase through, UBS. For more information on how we are compensated by clients and third parties, conflicts of interest and investments available at UBS please refer to the 'Your relationship with UBS' booklet provided at ubs.com/relationshipwithubs, or ask your UBS Financial Advisor for a copy.

### Important information about advisory and brokerage services

As a firm providing wealth management services to clients, UBS Financial Services Inc. offers investment advisory services in its capacity as an SEC-registered investment advisory services and brokerage services are separate and distinct, differ in material ways and are governed by different laws and separate arrangements. It is important that clients understand the ways in which we conduct business, that they carefully read the agreements and disclosures that we provide to them about the products or services we offer. For more information, please review client relationship summary provided at ubs.com/relationshipsummary.

Retirement Plan Consulting Services is an investment advisory program. Details regarding the program, including fees, services, features and suitability are provided in the ADV Disclosure.

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INVESTMENT	EXPENSE RATIO	STATUS	RATIONALE	ACTION
American Funds Washington Mutual R6 - RWMGX	0.27	•	Lowest share class	No action required
Vanguard Institutional Index Instl Pl - VIIIX	0.02		Lowest share class	No action required
JPMorgan Large Cap Growth R6 - JLGMX	0.44		Lowest share class	No action required
Victory Sycamore Established Value R6 - VEVRX	0.54		Lowest share class	No action required
Delaware Ivy Mid Cap Growth R6 - IGRFX	0.69		Lowest share class	No action required
ClearBridge Small Cap I - LMNSX	0.84	٠	Lowest cost share class net of revenue sharing	Document decision
Nuveen Real Estate Securities R6 - FREGX	0.85		Lowest share class	No action required
MFS Intl Diversification R6 - MDIZX	0.73	٠	Lowest share class	No action required
American Funds Europacific Growth R6 - RERGX	0.47	٠	Lowest share class	No action required
American Funds New Perspective R6 - RNPGX	0.41	٠	Lowest share class	No action required
Western Asset Core Plus Bond IS - WAPSX	0.42	٠	Lowest share class	No action required
PGIM High Yield R6 - PHYQX	0.38	٠	Lowest share class	No action required
Vanguard Treasury Money Market Investor - VUSXX	0.09	٠	Lowest share class	No action required
American Funds 2010 Trgt Date Retire R6 - RFTTX	0.28	٠	Lowest share class	No action required
American Funds 2015 Trgt Date Retire R6 - RFJTX	0.30	٠	Lowest share class	No action required
American Funds 2020 Trgt Date Retire R6 - RRCTX	0.30	٠	Lowest share class	No action required
American Funds 2025 Trgt Date Retire R6 - RFDTX	0.32	٠	Lowest share class	No action required
American Funds 2030 Trgt Date Retire R6 - RFETX	0.33		Lowest share class	No action required
American Funds 2035 Trgt Date Retire R6 - RFFTX	0.35		Lowest share class	No action required
American Funds 2040 Trgt Date Retire R6 - RFGTX	0.36		Lowest share class	No action required

FUNDS IN ANALYSIS (Mutual Funds)

Review Period = 03/31/2023

Status: 
 = Acceptable Share Class 
 = Action Required

\*Acceptable Share Class = Client decision to maintain share class, subject to action above noted \*Action Required = Share class change advised

This report is only applicable to investments in mutual funds. The share class analysis is performed annually. The review and expense ratio are effective as of the date in the review period above noted. Expense Ratio is subject to change.

UBS always recommends the lowest cost share class available at your Recordkeeper. Consistent with your fiduciary duty, you, and not UBS, are responsible for share class selection. UBS recommends that a decision to select an alternate share class be reviewed with counsel.

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FUNDS IN ANALYSIS (Mutual Funds)				Review Period = $03/31/2023$
INVESTMENT	EXPENSE RATIO	STATUS	RATIONALE	ACTION
American Funds 2045 Trgt Date Retire R6 - RFHTX	0.37	٠	Lowest share class	No action required
American Funds 2050 Trgt Date Retire R6 - RFITX	0.38	٠	Lowest share class	No action required
American Funds 2055 Trgt Date Retire R6 - RFKTX	0.38	٠	Lowest share class	No action required
American Funds 2060 Trgt Date Retire R6 - RFUTX	0.38	٠	Lowest share class	No action required

Status: 🛑 = Acceptable Share Class 🔺 = Action Required

\*Acceptable Share Class = Client decision to maintain share class, subject to action above noted \*Action Required = Share class change advised

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