

Full-Time and Part-Time Retirement and RMT Plans

December 31, 2022 Performance Report

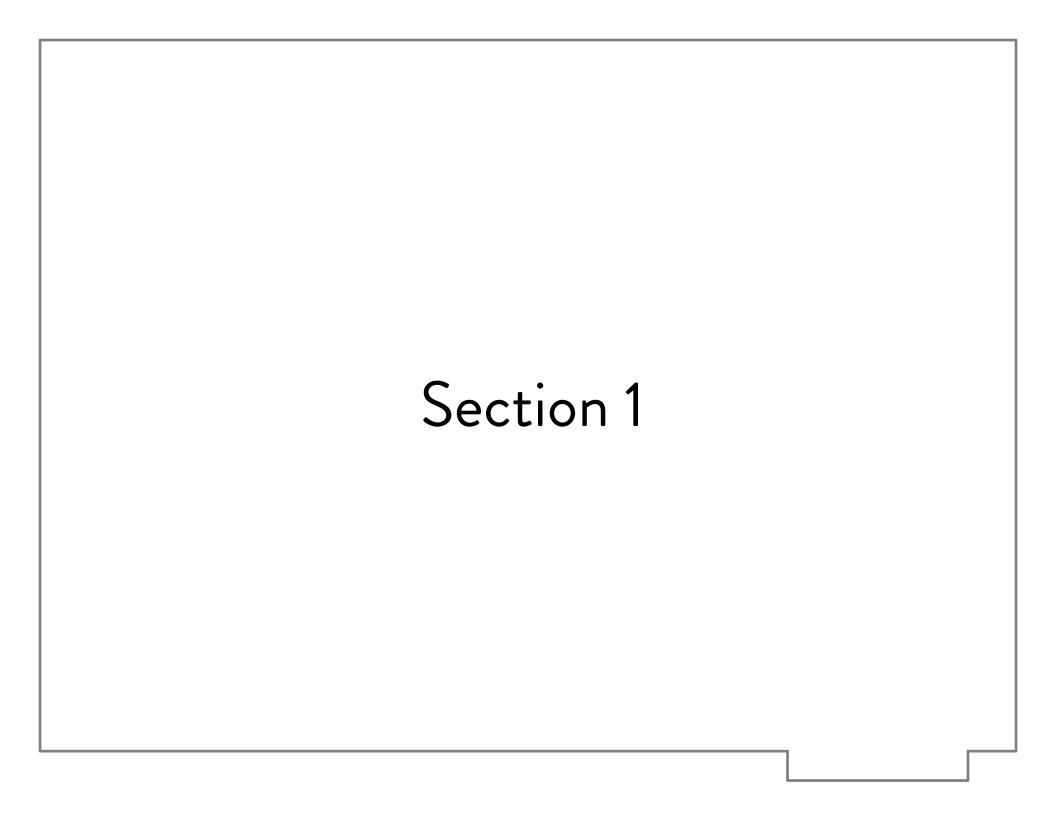
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FOURTH QUARTER 2022 MARKETS AND ECONOMIC UPDATE

CONSTRUCTIVE VIEWS ON PRODUCTIVITY

2022 contained no shortage of high-level events across the spectrum: military conflicts, continued pandemic, a bear market, inflation, aggressive monetary policy, and many more which continue into 2023. The importance of these notwithstanding, this article pivots to discuss a longer-term subject whose course has been influenced by 2022 and the era leading up to it: productivity. From the aftermath of the Great Financial Crisis (GFC) up to the start of COVID, productivity growth lagged longer-term averages and was not broadly dispersed throughout the myriad of sectors in the broader economy. Looking forward, factors on the supply side, which combined with demographic trends offer several avenues for new and productivity-enhancing capital expansion. After all last year's difficulties, it's nice to talk about something positive for a change!

Households and corporations still have substantially healthy balance sheets. Corporate cash levels are high, debt maturities are several years out, and leverage ratios are well below long-term trends. Banks in particular, the proverbial switch-board of capital, maintain excess capital thanks in part to controls set after the GFC. Good to know the funds are there, but who and what will the productivity come from? The US workforce is expected to get younger on average in the years to come, ushering in workers with a more natural proclivity to new technology and the potential for increased automation. This demographic transformation comes on the back of several recent years of increased venture capital funding bringing superior computing products to a more tractable labor market. More expensive financing via higher interest rates may also compel companies to leverage new technology to remain profitable.

The ingredients for productivity growth being there, where in particular might the capital expenditure money go? One of the offshoots more directly linked to the pandemic is the digitization of business models, wherein artificial intelligence and machine learning was originally substituted in for traditional R&D to help expedite the production of mRNA technologies, it has the potential for application across many other industries. Another is the adoption of hybrid or remote working, allowing increased labor mobility, reduced time lost to commuting, and more business start-ups bringing unique, new products to market. Spending on decarbonization from the Inflation Reduction Act, to come via fiscal and public/private partnership spending, also has the potential to add hundreds of billions of dollars to domestic output in new technologies. While other areas such as increases in defense and infrastructure spending also can bolster productivity, the economy-wide possibilities are varied and endless.

This article's optimistic hypotheses, which may take years to unfold, illustrate one of the benefits of a dynamic and open economy that is easily overlooked in stressful times: the potential for positive surprises. COVID's damages being what they are, many of the financial reactions to it when combined with other technological and demographic trends have the potential to positively transform economic lives for years to come. Such transformation arguably could not be as easily achieved in a more economically stagnant, sedate, or otherwise closed environment. Although the productivity gains we are hoping for are by no means guaranteed; the ingredients are there and the prospect reminds investors that the long-run can pack a lot of upside, even if the recent past has been anything but easy.¹

¹ Source: Morgan Stanley Global Investment Committee Special Report by Lisa Shalett, The Next American Productivity Renaissance, January 4, 2023

GLOBAL ECONOMIC LANDSCAPE

- As expected by a consensus of forecasters, inflation as measured by CPI came down in December 2022 for a second month; 7.0% at the headline level and 6.0% at core. In turn, the Fed lowered the pace of rate hikes to 50 basis points at its December meeting, bringing the fed funds rate to 4.5%. While there is reason to be sanguine about inflation, sticky prices in services and the tightness of the labor market are wildcards which the Fed has explicitly cited as risks. Despite the Fed's hawkish rhetoric which raised the terminal rate and pushed out guidance on first rate cuts, the market discounted only 25 to 50 basis points more in hikes and aggressive rate cuts by June. With financial conditions quite loose, the Fed has room to deliver negative surprises².
- The rise in Treasury yields may well challenge the US Government's ability to finance operations. For example, as of year-end 2022, nearly 30% of US Government debt was scheduled to mature within one year and approximately another 20% has a maturity date of between one and three years. One implication is that increased borrowing costs will crowd out discretionary spending. Another is that the Treasury may seek to issue longer-term debt which, thanks to an inverted yield curve, entails lower borrowing costs³.
- According to a Federal Reserve Report in November 2022 ("What Happens in China Does Not Stay in China"), policy-driven increases in China's credit may provide a tailwind for energy and commodity prices. For example, the International Energy Agency noted that China's demand for oil dropped by the greatest amount in over three decades due to lockdowns. Factors such as a re-opening in travel, an uptick in property demand, combined with relatively low inventory levels of copper and aluminum have the potential to stoke demand⁴.

GLOBAL FINANCIAL MARKETS

- In 2022, persistent global inflationary pressures and coordinated central bank rate hikes led equities to decline to bear market lows and fixed income to experience the sharpest losses in decades. This was the first time in modern history where both US stocks and long-term bonds declined by double digits in a year. The traditional 60% stock/40% bond portfolio lost -16.1% in 2022, the worst return in more than 50 years⁵.
- The US Dollar retreated in value from its peak on September 28, 2022, suggesting that investors believe the Fed is near the end of its tightening cycle. This in turn has been viewed positively for Emerging Markets in terms of their ability to attract, compete in export markets, raise capital by issuing dollar-denominated debt, and otherwise develop economically.
- Despite being viewed as an inflation-hedge, Real Estate Investment Trusts (REITs) saw their second worst year on record in 2022 (the worst being 2008), returning -24.5% versus -18.1% for the S&P 500. Although operating income growth was above historical averages, valuation metrics such as rising interest rates and credit spreads, as well as declining earnings expectations and falling private market valuations presented a formidable headwind for the sector⁷.
- Gold typically trades inversely with real, or inflation-adjusted, yields. Falling real yields support the yellow metal and rising yields on inflation-protection securities drive losses. With the 10-year US Treasury real yield having backed up by nearly 280 basis points in 2022 to 1.6% from an extremely negative

² Source: Morgan Stanley Global Investment Committee Weekly December 19, 2022

³ Source: Morgan Stanley Global Investment Committee Weekly January 9, 2023

⁴ Source: Morgan Stanley, A Few Things We're Thinking About, by Christopher Baxter, January 5, 2023

⁵ Source: Morgan Stanley, Client Commentary, January 2023

⁶ Source: Morgan Stanley, A Few Things We're Thinking About, by Christopher Baxter January 5, 2023

⁷ Source: Morgan Stanley, The REIT Cheat Sheet, North America by Ronald Kamden, January 3, 2023

position, it should have been a horrendous year for gold. However, demand has remained strong as shifting geopolitics and currency market turmoil have led central banks, especially those in China and Russia, to build their reserves⁸.

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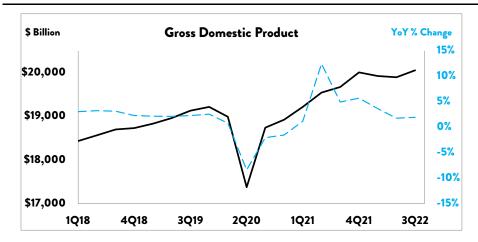
Hyas Group, 9755 SW Barnes Road, Suite 660, Portland, Oregon 97225; 503-634-1500

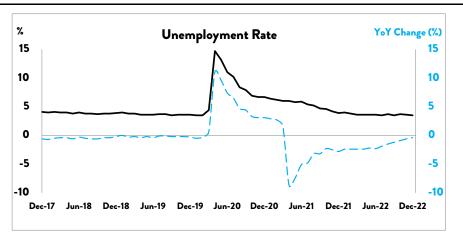
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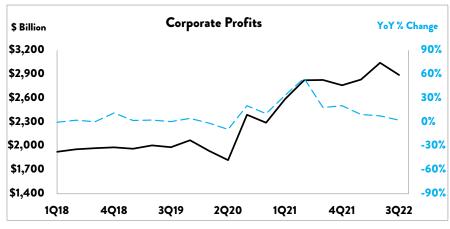
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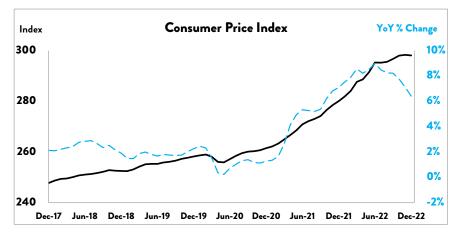
⁸ Source: Morgan Stanley Global Investment Committee Weekly January 3, 2023

4Q2022 Economic Data









Key:	 Economic	Series

--- Year-Over-Year Change

Labor Market Statistics (Monthly)									
Category	Recent	5-Yr High	5-Yr Low	5-Yr Avg.	Date				
Jobs Added/Lost Monthly	223,000	4,505,000	-20,493,000	103,567	Dec-22				
Unemployment Rate	3.5%	14.7%	3.5%	4.9%	Dec-22				
Median Unemployment Length (Weeks)	7.5	22.2	4.0	11.2	Dec-22				
Average Hourly Earnings	\$32.82	\$32.82	\$26.73	\$29.45	Dec-22				

Other Prices and Indexes (Monthly)							
Category	Recent	5-Yr High	5-Yr Low	% Off Peak	Date		
Gas: Price per Gallon	\$3.17	\$4.84	\$1.80	-34.5%	Dec-22		
Spot Oil	\$76.44	\$114.84	\$16.55	-33.4%	Dec-22		
Case-Shiller Home Price Index	304.2	316.2	204.7	48.7%*	Oct-22		
Medical Care CPI	552.3	557.4	480.8	14.9%*	Dec-22		

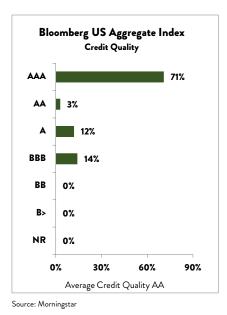
Source: Federal Reserve Bank of St. Louis and Bureau of Labor Statistics

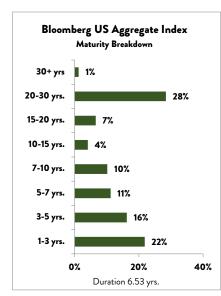
*% Off Low Morningstar data as of 12/31/2022

4Q2022 Bond Market Data

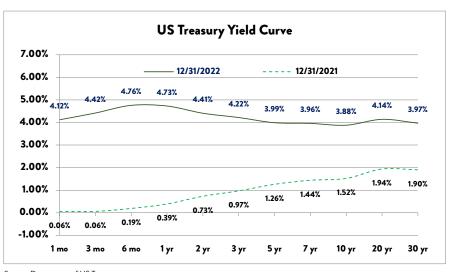
Index	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
90-Day T-Bill	1.02%	2.05%	2.05%	0.82%	1.31%	0.79%
Bloomberg US Aggregate	1.87%	-13.01%	-13.01%	-2.71%	0.02%	1.06%
Bloomberg Short US Treasury	0.85%	0.98%	0.98%	0.66%	1.26%	0.80%
Bloomberg Int. US Treasury	1.02%	-7.77%	-7.77%	-1.39%	0.46%	0.69%
Bloomberg Long US Treasury	-0.59%	-29.26%	-29.26%	-7.40%	-2.20%	0.60%
Bloomberg US TIPS	2.04%	-11.85%	-11.85%	1.21%	2.11%	1.12%
Bloomberg US Credit	3.44%	-15.26%	-15.26%	-2.86%	0.42%	1.82%
Bloomberg US Mortgage-Backed	2.14%	-11.81%	-11.81%	-3.22%	-0.53%	0.74%
Bloomberg US Asset-Backed	0.81%	-4.30%	-4.30%	-0.11%	1.18%	1.23%
Bloomberg US 20-Yr Municipal	5.23%	-11.02%	-11.02%	-1.05%	1.37%	2.64%
Bloomberg US High Yield	4.17%	-11.19%	-11.19%	0.05%	2.31%	4.03%
Bloomberg Global	4.55%	-16.25%	-16.25%	-4.48%	-1.66%	-0.44%
Bloomberg International	6.81%	-18.70%	-18.70%	-5.94%	-3.07%	-1.64%
Bloomberg Emerging Market	6.59%	-15.26%	-15.26%	-3.89%	-0.42%	1.71%

Source: Morningstar

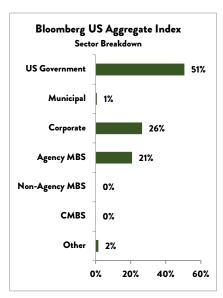




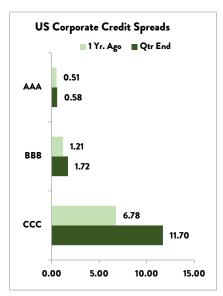
Source: Morningstar



Source: Department of US Treasury



Source: Morningstar



Source: Federal Reserve / Bank of America

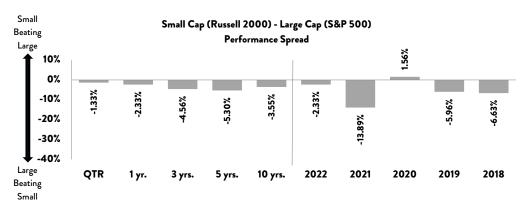
4Q2022 US Equity Market Data

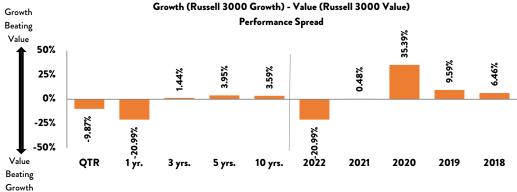
Sect	tors Weig	hts/Returns (ranked by quar	ter performan	ce)	
	Wgt.	Sector	QTR	YTD	1 yr.
	5%	Energy	22.81%	65.72%	65.72%
	9%	Industrials	19.22%	-5.48%	-5.48%
	3%	Materials	15.05%	-12.27%	-12.27%
dex	12%	Financials	13.61%	-10.53%	-10.53%
<u>-</u>	16%	Health Care	12.80%	-1.95%	-1.95%
S&P 500 Index	7%	Consumer Staples	12.72%	-0.62%	-0.62%
88	3%	Utilities	8.64%	1.57%	1.57%
0.	26%	Information Technology	4.74%	-28.19%	-28.19%
	3%	Real Estate	3.82%	-26.13%	-26.13%
	7%	Communication Services	-1.38%	-39.89%	-39.89%
	10%	Consumer Discretionary	-10.18%	-37.03%	-37.03%
	Wgt.	Sector	QTR	YTD	1 yr.
	7%	Materials	21.92%	-2.73%	-2.73%
×	14%	Consumer Discretionary	14.24%	-21.03%	-21.03%
nde	20%	Industrials	12.77%	-11.50%	-11.50%
0	4%	Utilities	11.62%	-0.15%	-0.15%
Midcap 400 Index	4%	Consumer Staples	11.59%	-0.77%	-0.77%
deal	4%	Energy	10.45%	36.62%	36.62%
Ž	15%	Financials	9.57%	-3.04%	-3.04%
S&P	12%	Information Technology	9.36%	-20.47%	-20.47%
	10%	Health Care	5.22%	-20.05%	-20.05%
	2%	Communication Services	4.31%	-20.39%	-20.39%
	8%	Real Estate	3.74%	-26.35%	-26.35%
	Wgt.	Sector	QTR	YTD	1 yr.
	5%	Energy	20.45%	47.89%	47.89%
×	17%	Industrials	14.66%	-9.40%	-9.40%
S&P Smallcap 600 Index	3%	Utilities	12.64%	-1.84%	-1.84%
00	6%	Materials	11.51%	-6.09%	-6.09%
ap 6	13%	Consumer Discretionary	10.91%	-27.82%	-27.82%
ا ا	5%	Consumer Staples	9.76%	-6.47%	-6.47%
S	8%	Real Estate	9.01%	-29.50%	-29.50%
% ₽	13%	Information Technology	8.09%	-22.36%	-22.36%
	18%	Financials	7.21%	-14.02%	-14.02%
	11%	Health Care	0.48%	-26.32%	-26.32%
	2%	Communication Services	-3.18%	-34.46%	-34.46%
_					

 ${\sf Source:Morningstar}$

Index Performance Data

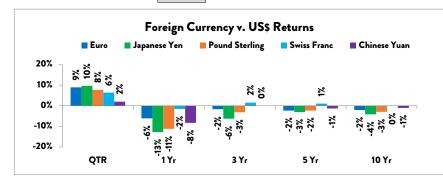
					Annualized	
Index	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
S&P 500	7.56%	-18.11%	-18.11%	7.66%	9.42%	12.56%
Russell 1000 Value	12.42%	-7.54%	-7.54%	5.96%	6.67%	10.29%
Russell 1000 Growth	2.20%	-29.14%	-29.14%	7.79%	10.96%	14.10%
Russell Mid Cap	9.18%	-17.32%	-17.32%	5.88%	7.10%	10.96%
Russell Mid Cap Value	10.45%	-12.03%	-12.03%	5.82%	5.72%	10.11%
Russell Mid Cap Growth	6.90%	-26.72%	-26.72%	3.85%	7.64%	11.41%
Russell 2000	6.23%	-20.44%	-20.44%	3.10%	4.13%	9.01%
Russell 2000 Value	8.42%	-14.48%	-14.48%	4.70%	4.13%	8.48%
Russell 2000 Growth	4.13%	-26.36%	-26.36%	0.65%	3.51%	9.20%
Russell 3000	7.18%	-19.21%	-19.21%	7.07%	8.79%	12.13%
DJ US Select REIT	4.76%	-25.96%	-25.96%	-1.37%	2.50%	5.74%





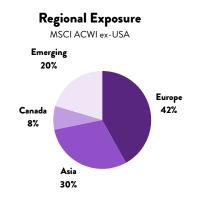
4Q2022 International Market Data

Index Performance Data (net)						
Index (US\$)	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
MSCI ACWI ex-US	14.28%	-16.00%	-16.00%	0.07%	0.88%	3.80%
MSCI EAFE	17.34%	-14.45%	-14.45%	0.87%	1.54%	4.67%
Europe	19.35%	-15.06%	-15.06%	1.35%	1.87%	4.58%
United Kingdom	16.98%	-4.84%	-4.84%	0.32%	0.96%	3.07%
Germany	24.57%	-22.34%	-22.34%	-3.01%	-3.02%	2.66%
France	22.19%	-13.33%	-13.33%	2.53%	3.41%	6.14%
Pacific	14.13%	-13.04%	-13.04%	-0.03%	0.95%	4.89%
Japan	13.23%	-16.65%	-16.65%	-0.99%	0.23%	5.55%
Hong Kong	18.21%	-4.71%	-4.71%	-1.05%	-0.29%	4.77%
Australia	15.68%	-5.25%	-5.25%	4.07%	4.05%	3.97%
Canada	7.42%	-12.87%	-12.87%	4.95%	4.06%	3.68%
MSCI EM	9.70%	-20.09%	-20.09%	-2.69%	-1.40%	1.44%
MSCI EM Latin America	5.73%	8.92%	8.92%	-4.79%	-1.08%	-2.15%
MSCI EM Asia	10.83%	-21.11%	-21.11%	-1.31%	-0.62%	3.55%
MSCI EM Eur/Mid East	1.25%	-35.34%	-35.34%	-9.53%	-4.07%	-4.02%
MSCI ACWI Value ex-US	15.70%	-8.59%	-8.59%	0.06%	-0.05%	2.72%
MSCI ACWI Growth ex-US	12.89%	-23.05%	-23.05%	-0.40%	1.49%	4.68%
MSCI ACWI Sm Cap ex-US	13.31%	-19.97%	-19.97%	1.07%	0.67%	5.24%



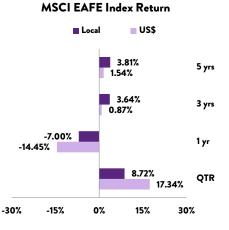
Exchange Rates	QTR	3Q22	2Q22	1Q22	4Q21	3Q21
Japanese Yen	131.81	144.71	135.69	121.44	115.17	111.50
Euro	0.93	1.02	0.96	0.90	0.88	0.86
British Pound	0.83	0.90	0.82	0.76	0.74	0.74
Swiss Franc	0.92	0.98	0.96	0.92	0.91	0.93
Chinese Yuan	6.90	7.11	6.70	6.34	6.37	6.44

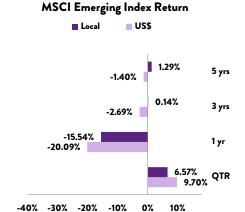
Source: Federal Reserve Bank of St. Louis

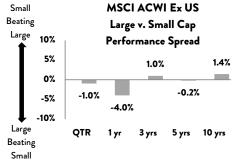


Top 10 Countries (MSCI AC World e	x-USA)
Japan	14%
UK	10%
China	9%
Canada	8%
France	8%
Switzerland	7%
Germany	5%
Australia	5%
India	4%
Taiwan	4%

Source: Morningstar









Performance Source: Morningstar

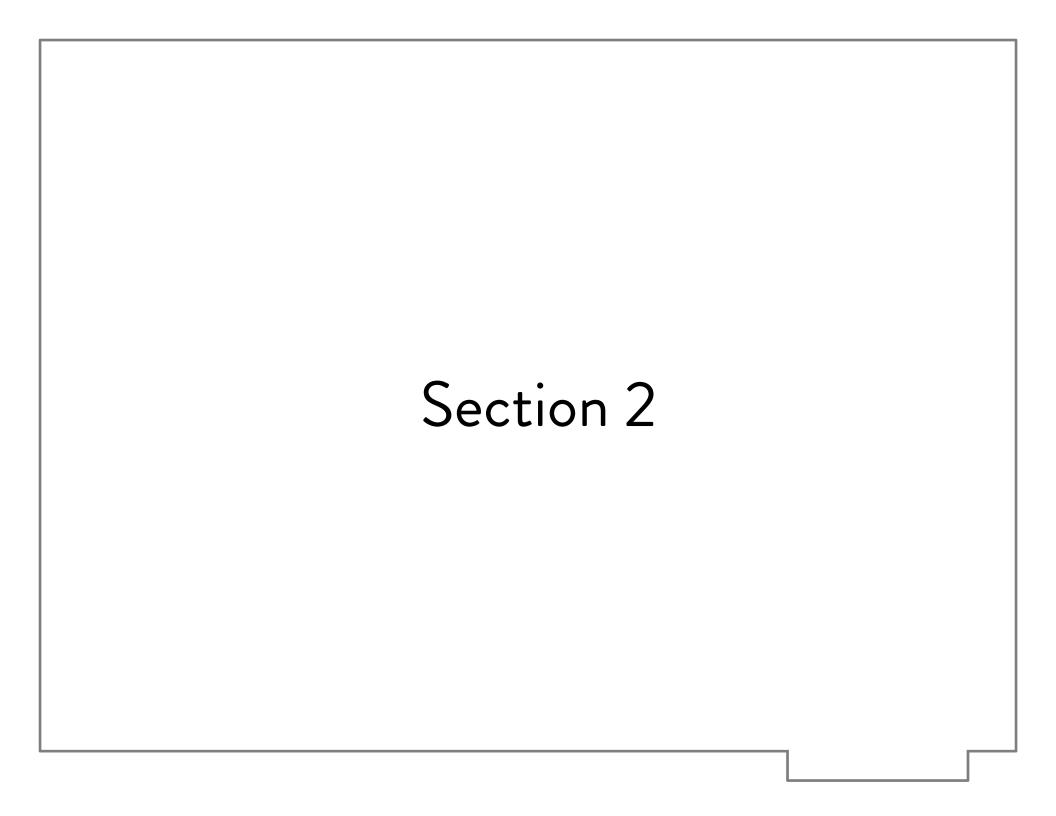
Historical Market Returns

Ranked by Performance

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	4Q22
Emerging Markets 39.42%	US Bonds 5.24%	Emerging Markets 78.51%	Small Cap 26.85%	Core Real Estate 14.96%	Emerging Markets 18.22%	Small Cap 38.82%	Large Cap 13.68%	Core Real Estate 13.95%	Small Cap 21.30%	Emerging Markets 37.28%	Core Real Estate 7.36%	Large Cap 31.49%	Small Cap 19.96%	Large Cap 28.71%	Commod. 16.09%	Intl 14.28%
Intl 16.65%	Global Bonds 4.79%	High Yield 58.21%	Mid Cap 25.48%	TIPS 13.56%	Mid Cap 17.28%	Mid Cap 34.76%	Mid Cap 13.21%	Large Cap 1.38%	High Yield 17.12%	Intl 27.19%	Cash 1.69%	Mid Cap 30.54%	Large Cap 18.40%	Commod. 27.11%	Core Real Estate 6.59%	Emerging Markets 9.70%
Commod. 16.23%	Cash 1.39%	Intl 41.45%	Emerging Markets 18.88%	US Bonds 7.84%	Intl 16.83%	Large Cap 32.39%	Core Real Estate 11.44%	US Bonds 0.55%	Mid Cap 13.79%	Large Cap 21.83%	US Bonds 0.01%	Small Cap 25.52%	Emerging Markets 18.31%	Mid Cap 22.58%	Cash 2.05%	Mid Cap 9.18%
Core Real Estate 14.84%	TIPS -2.35%	Mid Cap 40.48%	Commod. 16.83%	Global Bonds 5.64%	Small Cap 16.35%	Intl 15.29%	US Bonds 5.97%	Cash 0.03%	Large Cap 11.95%	Mid Cap 18.52%	Global Bonds -1.20%	Intl 21.51%	Mid Cap 17.10%	Core Real Estate 21.06%	High Yield -11.19%	Large Cap 7.56%
TIPS 11.64%	Core Real Estate -10.70%	Small Cap 27.17%	Core Real Estate 15.26%	High Yield 4.98%	Large Cap 16.00%	Global Balanced 14.46%	Small Cap 4.89%	TIPS -1.43%	Commod. 11.76	Global Balanced 15.87%	TIPS -1.26%	Global Balanced 18.86%	Global Balanced 13.93%	Small Cap 14.82%	TIPS -11.85%	Global Balanced 7.50%
Global Bonds 9.48%	Global Balanced -24.51%	Large Cap 26.46%	High Yield 15.12%	Large Cap 2.11%	High Yield 15.81%	Core Real Estate 12.95%	TIPS 3.64%	Global Balanced -1.45%	Emerging Markets 11.18%	Small Cap 14.65%	High Yield -2.08%	Emerging Markets 18.42%	TIPS 10.99%	Global Balanced 10.94%	US Bonds -13.01%	Small Cap 6.23%
Global Balanced 9.07%	High Yield -26.16%	Global Balanced 20.49%	Large Cap 15.06%	Cash 0.06%	Global Balanced 11.06%	High Yield 7.44%	Global Balanced 3.17%	Mid Cap -2.43%	Core Real Estate 7.76%	High Yield 7.50%	Large Cap -4.38%	High Yield 14.32%	Intl 10.65%	Intl 7.82%	Intl -16.00%	Global Bonds 4.55%
US Bonds 6.97%	Small Cap -33.79%	Commod. 18.91%	Intl 11.15%	Global Balanced -0.97%	Core Real Estate 9.76%	Cash 0.07%	High Yield 2.45%	Global Bonds -3.15%	Global Balanced 5.38%	Global Bonds 7.39%	Global Balanced -5.30%	US Bonds 8.72%	Global Bonds 9.20%	TIPS 5.96%	Global Bonds -16.25%	High Yield 4.17%
Mid Cap 5.60%	Commod35.65%	TIPS 11.41%	Global Balanced 9.40%	Mid Cap -1.55%	TIPS 6.98%	US Bonds -2.02%	Global Bonds 0.59%	Small Cap -4.41%	TIPS 4.68%	Core Real Estate 6.66%	Mid Cap -9.06%	TIPS 8.43%	US Bonds 7.51%	High Yield 5.28%	Global Balanced -16.40%	Commod. 2.22%
Large Cap 5.49%	Large Cap -37.00%	Global Bonds 6.93%	US Bonds 6.54%	Small Cap -4.18%	Global Bonds 4.32%	Global Bonds -2.60%	Cash 0.04%	High Yield -4.46%	Intl 4.50%	US Bonds 3.54%	Small Cap -11.01%	Commod. 7.69%	High Yield 7.11%	Cash 0.05%	Mid Cap -17.32%	TIPS 2.04%
Cash 4.44%	Mid Cap -41.46%	US Bonds 5.93%	TIPS 6.31%	Commod13.32%	US Bonds 4.21%	Emerging Markets -2.60%	Emerging Markets -2.18%	Intl -5.66%	US Bonds 2.65%	TIPS 3.01%	Commod. -11.25%	Global Bonds 6.84%	Cash 0.37%	US Bonds -1.54%	Large Cap -18.11%	US Bonds 1.87%
High Yield 1.87%	Intl -45.53%	Cash 0.16%	Global Bonds 5.54%	Intl -13.71%	Cash 0.08%	TIPS -8.61%	Intl -3.86%	Emerging Markets -14.90%	Global Bonds 2.09%	Commod. 1.70%	Intl -14.20%	Core Real Estate 4.41%	Core Real Estate 0.35%	Emerging Markets -2.54%	Emerging Markets -20.09%	Cash 1.02%
Small Cap -1.57%	Emerging Markets -53.33%	Core Real Estate -30.40%	Cash 0.15%	Emerging Markets -18.42%	Commod. -1.06%	Commod9.52%	Commod. -17.00%	Commod24.60%	Cash 0.25%	Cash 0.71%	Emerging Markets -14.58%	Cash 2.30%	Commod3.12%	Global Bonds -4.71%	Small Cap -20.44%	Core Real Estate -5.13%

Global Balanced is composed of 60% MSCI World Stock Index, 35% BBgBarc Global Aggregate Bond Index, and 5% US 90-Day T-Bills.

Source: Morningstar; Core Real Estate Source: NCREIF



PLAN ASSET ALLOCATION

Full-Time Plans - Combined Fourth Quarter 2022

Fixed Income	Ticker	Assets	%
Stabilizer	-	\$278,212,715	19.9%
Voya Fixed Account	-	\$86,537,188	6.2%
Voya Government Money Market A	VYAXX	\$14,573	0.0%
Sterling Capital Total Return Bond R6	STRDX	\$30,009,705	2.1%
Fidelity US Bond Index	FXNAX	\$8,789,982	0.6%
Fidelity Intermediate Treasury Bond Index	FUAMX	\$2,317,815	0.2%
	Total	\$405,881,977	29.0%

Large Cap	Ticker	Assets	%
Fidelity 500 Index	FXAIX	\$145,863,493	10.4%
Hartford Core Equity R6	HAITX	\$128,738,836	9.2%
	Total	\$274,602,329	19.6%

Mid Cap	Ticker	Assets	%
Fidelity Mid Cap Index	FSMDX	\$71,693,868	5.1%
Baron Growth Instl	BGRIX	\$46,085,553	3.3%
	Total	\$117,779,421	8.4%

Small Cap	Ticker	Assets	%
Hartford Schroders US Small Cap Opps SDR	SCURX	\$11,307,739	0.8%
Fidelity Small Cap Index	FSSNX	\$42,624,393	3.0%
	Total	\$53,932,132	3.9%

International	Ticker	Assets	%
MFS International Diversification R6	MDIZX	\$53,891,588	3.8%
Fidelity Total International Index	FTIHX	\$33,976,259	2.4%
	Total	\$87,867,847	6.3%

Asset Allocation	Ticker	Assets	%
Conservative Allocation Portfolio	-	\$40,195,020	2.9%
Moderate Allocation Portfolio	-	\$84,776,399	6.1%
Aggressive Allocation Portfolio	-	\$63,911,107	4.6%
Vanguard Target Retirement Income	VTINX	\$7,127,007	0.5%
Vanguard Target Retirement 2020	VTWNX	\$31,210,163	2.2%
Vanguard Target Retirement 2025	VTTVX	\$3,221,804	0.2%
Vanguard Target Retirement 2030	VTHRX	\$67,746,767	4.8%
Vanguard Target Retirement 2035	VTTHX	\$3,379,497	0.2%
Vanguard Target Retirement 2040	VFORX	\$67,284,116	4.8%
Vanguard Target Retirement 2045	VTIVX	\$2,557,266	0.2%
Vanguard Target Retirement 2050	VFIFX	\$50,329,537	3.6%
Vanguard Target Retirement 2055	VFFVX	\$2,005,506	0.1%
Vanguard Target Retirement 2060	VTTSX	\$1,664,250	0.1%
Vanguard Target Retirement 2065	VLXVX	\$935,071	0.1%
Vanguard Target Retirement 2070	VSVNX	\$11,542	0.0%
	Total	\$426,355,052	30.5%

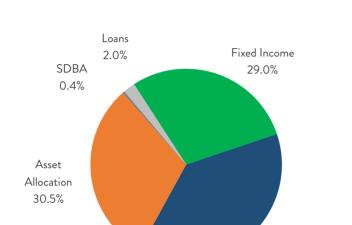
Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$5,423,893	0.4%
Participant Loans	-	\$28,013,918	2.0%
	Total	\$33,437,811	2.4%

TOTAL PLAN ASSETS

\$1,399,856,568

Full-Time Plans - Combined

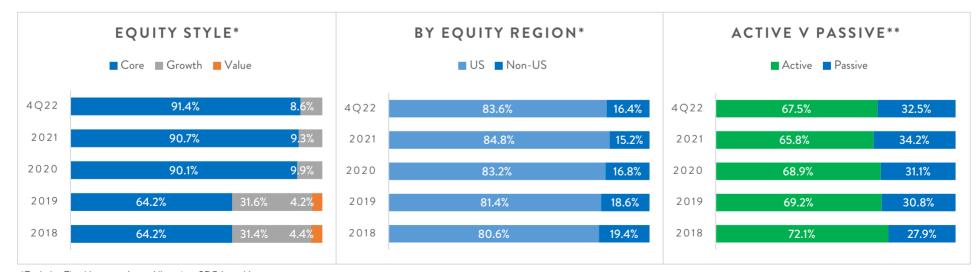
Fourth Quarter 2022



Equity 38.2%

HISTORICAL PLAN ALLOCATION

Asset Class	4Q22	2021	2020	2019	2018	2017	2016	2015
Fixed Income	29.0%	25.7%	29.1%	29.9%	33.8%	N/A	N/A	N/A
Large Cap	19.6%	21.9%	20.4%	20.2%	19.0%	N/A	N/A	N/A
Mid Cap	8.4%	9.7%	9.3%	8.5%	4.9%	N/A	N/A	N/A
Small Cap	3.9%	4.2%	4.1%	4.3%	6.7%	N/A	N/A	N/A
International	6.3%	6.4%	6.8%	7.5%	7.3%	N/A	N/A	N/A
Asset Allocation	30.5%	29.9%	27.9%	26.7%	25.0%	N/A	N/A	N/A
SDBA	0.4%	0.4%	0.3%	0.2%	0.2%	N/A	N/A	N/A
Loans	2.0%	1.8%	2.2%	2.7%	3.0%	N/A	N/A	N/A



^{*}Excludes Fixed Income, Asset Allocation, SDBA, and Loan assets

^{**}Excludes Asset Allocation, SDBA, and Loan assets

Full-Time Plans - Combined Fourth Quarter 2022

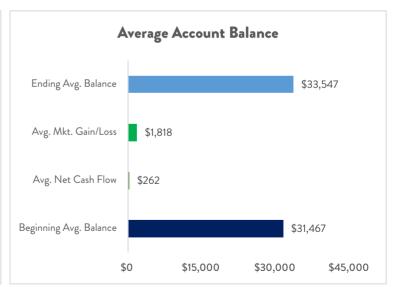
PLAN LEVEL CASH FLOWS

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$403,563,516	\$10,158,509	(\$7,121,664)	(\$3,196,752)	\$2,478,368	\$405,881,977
Large Cap	\$255,533,356	\$3,793,271	(\$3,939,153)	\$601,392	\$18,613,463	\$274,602,329
Mid Cap	\$104,771,608	\$1,975,152	(\$1,180,195)	\$1,444,041	\$10,768,815	\$117,779,421
Small Cap	\$50,078,705	\$1,145,217	(\$766,730)	(\$36,829)	\$3,511,769	\$53,932,132
International	\$76,596,490	\$1,629,909	(\$965,933)	(\$664,082)	\$11,271,463	\$87,867,847
Asset Allocation	\$390,697,061	\$11,690,059	(\$5,685,927)	\$1,814,935	\$27,838,924	\$426,355,052
SDBA	\$5,520,460	\$0	\$0	\$37,294	(\$133,862)	\$5,423,893
Total	\$1,286,761,196	\$30,392,117	(\$19,659,601)	\$0	\$74,348,939	\$1,371,842,650

HISTORICAL PLAN CASH FLOWS

			Market	
	Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
4Q22	\$1,286,761,196	\$10,732,515	\$74,348,939	\$1,371,842,650
YTD	\$1,532,878,892	\$31,236,797	(\$192,273,039)	\$1,371,842,650
2021	\$1,338,628,506	\$24,876,764	\$169,373,622	\$1,532,878,892
2020	\$1,169,929,608	\$27,232,766	\$141,466,131	\$1,338,628,506
2019	\$971,095,953	\$24,227,438	\$174,606,217	\$1,169,929,608
2018	N/A	N/A	N/A	\$971,095,953
2017	N/A	N/A	N/A	N/A





Equity Indices: Russell 3000, MSCI ACWI ex USA; Fixed Indices: US Treasury 3 Mo T-Bill, Bloomberg Global Aggregate Bond (rebalanced quarterly)

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PLAN ASSET ALLOCATION

457 Deferred Compensation Plan

Fourth Quarter 2022

Fixed Income	Ticker	Assets	%
Stabilizer	-	\$226,456,843	23.0%
Sterling Capital Total Return Bond R6	STRDX	\$25,299,090	2.6%
Fidelity US Bond Index	FXNAX	\$7,951,261	0.8%
Fidelity Intermediate Treasury Bond Index	FUAMX	\$1,819,541	0.2%
	Total	\$261,526,735	26.5%

Vanguard Target Retirement 2035

Vanguard Target Retirement 2065

Vanguard Target Retirement 2070

Asset Allocation

Fidelity Total International Index

MFS International Diversification R6

International

Ticker	Assets	%
MDIZX	\$45,370,242	4.6%
FTIHX	\$29,401,837	3.0%
Total	\$74,772,078	7.6%

Assets

\$2,144,139

\$832,987

\$7,960

\$265,341,536

0.2%

3.4%

0.2%

3.9%

0.1%

0.1%

0.1%

0.0%

26.9%

Large Cap	Ticker	Assets	%
Fidelity 500 Index	FXAIX	\$116,663,886	11.8%
Hartford Core Equity R6	HAITX	\$101,472,000	10.3%
	Total	\$218,135,885	22.1%

%	Ν
11.8%	Α
10.3%	V
22.1%	V

Conservative Allocation Portfolio	-	\$27,693,117	2.8%
Moderate Allocation Portfolio	-	\$63,612,213	6.5%
Aggressive Allocation Portfolio	-	\$50,393,395	5.1%
Vanguard Target Retirement Income	VTINX	\$4,818,278	0.5%
Vanguard Target Retirement 2020	VTWNX	\$11,757,706	1.2%
Vanguard Target Retirement 2025	VTTVX	\$2,271,280	0.2%
Vanguard Target Retirement 2030	VTHRX	\$25,881,903	2.6%

Ticker

VTTHX

VLXVX

VSVNX

Total

Mid Cap	Ticker	Assets	%
Fidelity Mid Cap Index	FSMDX	\$55,700,226	5.6%
Baron Growth Instl	BGRIX	\$36,510,058	3.7%
	Total	\$92,210,283	9.4%

Vanguard Target Retirement 2040	VFORX	\$33,465,537
Vanguard Target Retirement 2045	VTIVX	\$1,637,645
Vanguard Target Retirement 2050	VFIFX	\$38,057,422
Vanguard Target Retirement 2055	VFFVX	\$1,358,782
Vanguard Target Retirement 2060	VTTSX	\$1,409,175

Small Cap	Ticker	Assets	%
Hartford Schroders US Small Cap Opps SDR	SCURX	\$9,497,294	1.0%
Fidelity Small Cap Index	FSSNX	\$33,909,331	3.4%
	Total	\$43,406,624	4.4%

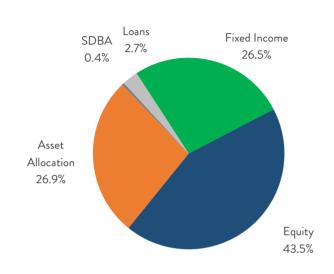
Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$4,283,507	0.4%
Participant Loans	-	\$26,282,147	2.7%
	Total	\$30,565,654	3.1%

TOTAL PLAN ASSETS

\$985,958,796

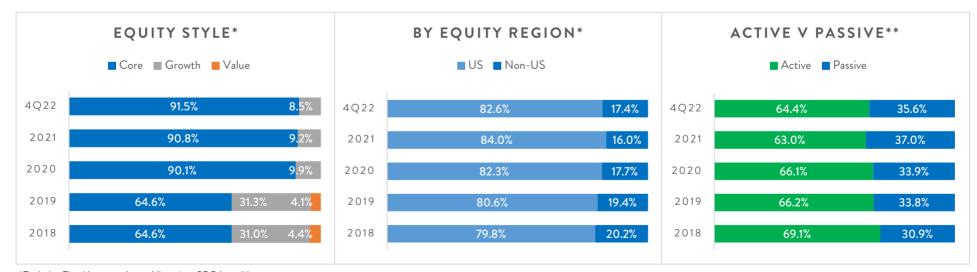
457 Deferred Compensation Plan

Fourth Quarter 2022



HISTORICAL PLAN ALLOCATION

Asset Class	4Q22	2021	2020	2019	2018	2017	2016	2015
Fixed Income	26.5%	23.2%	26.4%	26.5%	30.2%	N/A	N/A	N/A
Large Cap	22.1%	24.5%	22.7%	22.6%	21.4%	N/A	N/A	N/A
Mid Cap	9.4%	10.8%	10.4%	9.5%	8.3%	N/A	N/A	N/A
Small Cap	4.4%	4.7%	4.6%	4.9%	4.7%	N/A	N/A	N/A
International	7.6%	7.6%	8.1%	8.9%	8.7%	N/A	N/A	N/A
Asset Allocation	26.9%	26.4%	24.6%	24.0%	22.5%	N/A	N/A	N/A
SDBA	0.4%	0.4%	0.3%	0.2%	0.3%	N/A	N/A	N/A
Loans	2.7%	2.4%	2.8%	3.5%	3.9%	N/A	N/A	N/A



^{*}Excludes Fixed Income, Asset Allocation, SDBA, and Loan assets

^{**}Excludes Asset Allocation, SDBA, and Loan assets

457 Deferred Compensation Plan

Fourth Quarter 2022

PLAN LEVEL CASH FLOWS

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$260,521,672	\$3,442,258	(\$4,662,767)	\$410,253	\$1,815,320	\$261,526,735
Large Cap	\$203,377,411	\$2,979,898	(\$3,254,847)	\$211,936	\$14,821,486	\$218,135,885
Mid Cap	\$81,945,858	\$1,523,316	(\$951,688)	\$1,256,921	\$8,435,876	\$92,210,283
Small Cap	\$40,315,389	\$882,279	(\$625,024)	(\$7,769)	\$2,841,749	\$43,406,624
International	\$65,327,085	\$1,366,432	(\$869,149)	(\$657,510)	\$9,605,220	\$74,772,078
Asset Allocation	\$243,709,564	\$9,365,775	(\$4,104,600)	(\$1,241,218)	\$17,612,016	\$265,341,536
SDBA	\$4,339,123	\$0	\$0	\$27,387	(\$83,003)	\$4,283,507
Total	\$899,536,102	\$19,559,958	(\$14,468,074)	\$0	\$55,048,664	\$959,676,649

HISTORICAL PLAN CASH FLOWS

	Beginning		Market	
	Value	Net Cash Flow	Gain/Loss	Ending Value
4Q22	\$899,536,102	\$5,091,884	\$55,048,664	\$959,676,649
YTD	\$1,089,028,791	\$13,564,232	(\$142,916,374)	\$959,676,649
2021	\$953,622,721	\$8,355,915	\$127,050,156	\$1,089,028,791
2020	\$834,788,633	\$12,696,826	\$106,137,261	\$953,622,721
2019	\$691,312,582	\$10,850,129	\$132,625,923	\$834,788,633
2018	N/A	N/A	N/A	\$691,312,582
2017	N/A	N/A	N/A	N/A





 $Equity\ Indices:\ Russell\ 3000,\ MSCI\ ACWI\ ex\ USA;\ Fixed\ Indices:\ US\ Treasury\ 3\ Mo\ T-Bill,\ Bloomberg\ Global$

Aggregate Bond (rebalanced quarterly)

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PLAN ASSET ALLOCATION

401(a) Defined Contribution Plan

Fourth Quarter 2022

Fixed Income	Ticker	Assets	%
Stabilizer	-	\$2,522,003	6.8%
Sterling Capital Total Return Bond R6	STRDX	\$227,294	0.6%
Fidelity US Bond Index	FXNAX	\$17,748	0.0%
Fidelity Intermediate Treasury Bond Index	FUAMX	\$32,112	0.1%
	Total	\$2,799,157	7.5%

International	Ticker	Assets	%
MFS International Diversification R6	MDIZX	\$183,708	0.5%
Fidelity Total International Index	FTIHX	\$231,013	0.6%
	Total	\$414,721	1.1%

Large Cap	Ticker	Assets	%
Fidelity 500 Index	FXAIX	\$1,319,964	3.5%
Hartford Core Equity R6	HAITX	\$636,767	1.7%
	Total	\$1 956 731	5.2%

Large Cap	Ticker	Assets	%
Fidelity 500 Index	FXAIX	\$1,319,964	3.5%
Hartford Core Equity R6	HAITX	\$636,767	1.7%
	Total	\$1,956,731	5.2%

Mid Cap	Ticker	Assets	%
Fidelity Mid Cap Index	FSMDX	\$584,867	1.6%
Baron Growth Instl	BGRIX	\$433,856	1.2%
	Total	\$1,018,723	2.7%

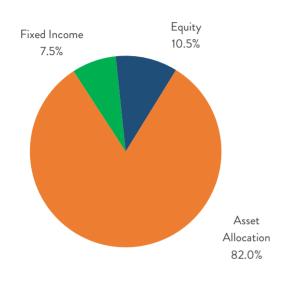
Small Cap	Ticker	Assets	%
Hartford Schroders US Small Cap Opps SDR	SCURX	\$160,218	0.4%
Fidelity Small Cap Index	FSSNX	\$350,746	0.9%
	Total	\$510,964	1.4%

Asset Allocation	Ticker	Assets	%
Conservative Allocation Portfolio	-	\$960,945	2.6%
Moderate Allocation Portfolio	-	\$1,357,838	3.6%
Aggressive Allocation Portfolio	-	\$1,222,454	3.3%
Vanguard Target Retirement Income	VTINX	\$743,779	2.0%
Vanguard Target Retirement 2020	VTWNX	\$3,811,734	10.2%
Vanguard Target Retirement 2025	VTTVX	\$373,888	1.0%
Vanguard Target Retirement 2030	VTHRX	\$8,182,060	21.9%
Vanguard Target Retirement 2035	VTTHX	\$603,608	1.6%
Vanguard Target Retirement 2040	VFORX	\$8,168,562	21.9%
Vanguard Target Retirement 2045	VTIVX	\$676,694	1.8%
Vanguard Target Retirement 2050	VFIFX	\$3,666,628	9.8%
Vanguard Target Retirement 2055	VFFVX	\$546,162	1.5%
Vanguard Target Retirement 2060	VTTSX	\$237,898	0.6%
Vanguard Target Retirement 2065	VLXVX	\$23,381	0.1%
Vanguard Target Retirement 2070	VSVNX	\$35	0.0%
	Total	\$30,575,666	82.0%

TOTAL PLAN ASSETS

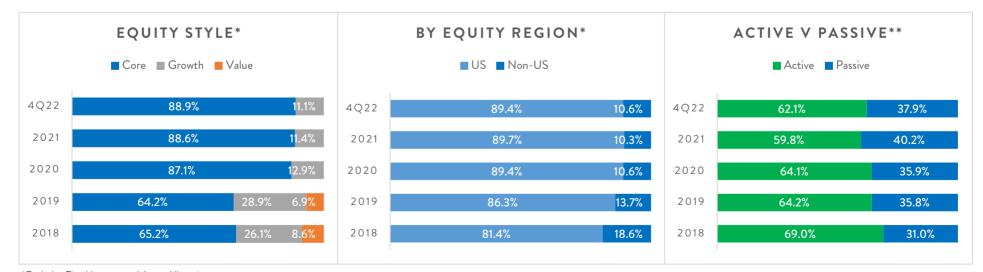
\$37,275,963

401(a) Defined Contribution Plan Fourth Quarter 2022



HISTORICAL PLAN ALLOCATION

Asset Class	4Q22	2021	2020	2019	2018	2017	2016	2015
Fixed Income	7.5%	6.2%	7.3%	6.7%	8.7%	N/A	N/A	N/A
Large Cap	5.2%	5.5%	5.2%	4.9%	4.3%	N/A	N/A	N/A
Mid Cap	2.7%	2.8%	3.0%	2.6%	2.0%	N/A	N/A	N/A
Small Cap	1.4%	1.5%	1.3%	1.4%	1.2%	N/A	N/A	N/A
International	1.1%	1.1%	1.1%	1.4%	1.7%	N/A	N/A	N/A
Asset Allocation	82.0%	82.9%	82.0%	83.1%	82.0%	N/A	N/A	N/A



^{*}Excludes Fixed Income and Asset Allocation assets

^{**}Excludes Asset Allocation assets

Fourth Quarter 2022

401(a) Defined Contribution Plan

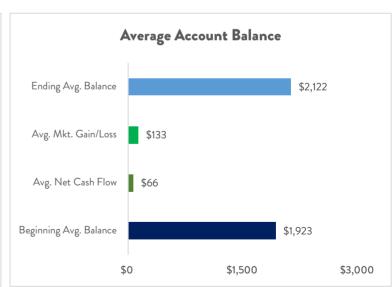
PLAN LEVEL CASH FLOWS

HISTORICAL PLAN CASH FLOWS

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$2,692,027	\$60,081	(\$18,091)	\$47,012	\$18,128	\$2,799,157
Large Cap	\$1,779,876	\$64,330	(\$12,044)	(\$6,921)	\$131,489	\$1,956,731
Mid Cap	\$885,892	\$36,605	(\$7,683)	\$11,457	\$92,453	\$1,018,723
Small Cap	\$457,664	\$22,559	(\$8,246)	\$5,037	\$33,951	\$510,964
International	\$347,718	\$13,858	(\$2,229)	\$3,478	\$51,897	\$414,721
Asset Allocation	\$27,625,574	\$1,234,441	(\$226,695)	(\$60,063)	\$2,002,409	\$30,575,666
Total	\$33,788,752	\$1,431,874	(\$274,989)	\$0	\$2,330,326	\$37,275,963

			Market	
	Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
4Q22	\$33,788,752	\$1,156,885	\$2,330,326	\$37,275,963
YTD	\$39,612,962	\$3,746,919	(\$6,083,919)	\$37,275,963
2021	\$32,088,454	\$3,377,484	\$4,147,025	\$39,612,962
2020	\$24,643,848	\$3,622,525	\$3,822,081	\$32,088,454
2019	\$18,802,415	\$1,890,811	\$3,950,623	\$24,643,848
2018	N/A	N/A	N/A	\$18,802,415





Equity Indices: Russell 3000, MSCI ACWI ex USA; Fixed Indices: US Treasury 3 Mo T-Bill, Bloomberg Global Aggregate Bond (rebalanced quarterly)

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PLAN ASSET ALLOCATION

401(k) Defined Contribution Plan

Fourth Quarter 2022

Fixed Income	Ticker	Assets	%
Stabilizer	-	\$49,233,869	26.2%
Sterling Capital Total Return Bond R6	STRDX	\$3,837,404	2.0%
Fidelity US Bond Index	FXNAX	\$776,950	0.4%
Fidelity Intermediate Treasury Bond Index	FUAMX	\$383,770	0.2%
	Total	\$54,231,993	28.8%

International	Ticker	Assets	%
MFS International Diversification R6	MDIZX	\$7,570,701	4.0%
Fidelity Total International Index	FTIHX	\$3,881,224	2.1%
	Total	\$11,451,926	6.1%

Large Cap	Ticker	Assets	%
Fidelity 500 Index	FXAIX	\$24,591,144	13.1%
Hartford Core Equity R6	HAITX	\$23,250,997	12.4%
	Total	\$47,842,141	25.4%

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%	Μ
13.1%	A
12.4%	Va
25.4%	Va
	\/-

Ticker	Assets	%
-	\$9,558,261	5.1%
-	\$15,816,361	8.4%
-	\$6,906,594	3.7%
VTINX	\$111,996	0.1%
VTWNX	\$1,662,923	0.9%
VTTVX	\$226,216	0.1%
VTHRX	\$3,943,564	2.1%
VTTHX	\$512,671	0.3%
VFORX	\$2,681,129	1.4%
VTIVX	\$232,341	0.1%
VFIFX	\$1,572,835	0.8%
VFFVX	\$77,936	0.0%
VTTSX	\$13,937	0.0%
VLXVX	\$66,897	0.0%
VSVNX	\$3,547	0.0%
Total	\$43,387,209	23.1%
		- \$9,558,261 - \$15,816,361 - \$6,906,594 VTINX \$111,996 VTWNX \$1,662,923 VTTVX \$226,216 VTHRX \$3,943,564 VTTHX \$512,671 VFORX \$2,681,129 VTIVX \$232,341 VFIFX \$1,572,835 VFFVX \$77,936 VTTSX \$13,937 VLXVX \$66,897 VSVNX \$3,547

Mid Cap	Ticker	Assets	%
Fidelity Mid Cap Index	FSMDX	\$12,929,633	6.9%
Baron Growth Instl	BGRIX	\$7,096,636	3.8%
	Total	\$20,026,269	10.6%

Small Cap	Ticker	Assets	%
Hartford Schroders US Small Cap Opps SDR	SCURX	\$1,328,120	0.7%
Fidelity Small Cap Index	FSSNX	\$7,002,477	3.7%
	Total	\$8,330,597	4.4%

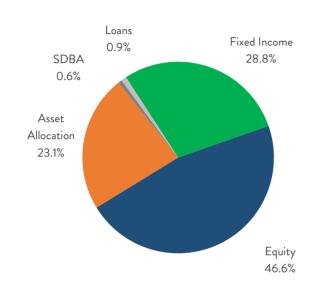
Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$1,140,386	0.6%
Participant Loans	-	\$1,731,771	0.9%
	Total	\$2,872,157	1.5%

TOTAL PLAN ASSETS

\$188,142,291

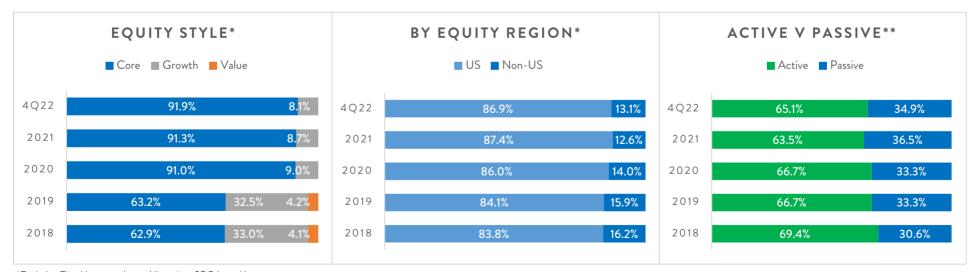
Fourth Quarter 2022

401(k) Defined Contribution Plan



HISTORICAL PLAN ALLOCATION

Asset Class	4Q22	2021	2020	2019	2018	2017	2016	2015
Fixed Income	28.8%	25.3%	29.0%	29.7%	32.9%	N/A	N/A	N/A
Large Cap	25.4%	27.7%	25.5%	24.8%	23.1%	N/A	N/A	N/A
Mid Cap	10.6%	11.6%	10.3%	9.6%	8.7%	N/A	N/A	N/A
Small Cap	4.4%	4.8%	4.4%	4.8%	4.5%	N/A	N/A	N/A
International	6.1%	6.3%	6.6%	7.4%	7.0%	N/A	N/A	N/A
Asset Allocation	23.1%	22.9%	22.5%	22.1%	22.1%	N/A	N/A	N/A
SDBA	0.6%	0.6%	0.6%	0.3%	0.3%	N/A	N/A	N/A
Loans	0.9%	0.8%	1.1%	1.3%	1.4%	N/A	N/A	N/A



^{*}Excludes Fixed Income, Asset Allocation, SDBA, and Loan assets

^{**}Excludes Asset Allocation, SDBA, and Loan assets

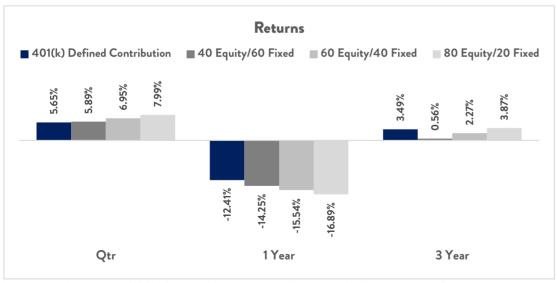
401(k) Defined Contribution Plan Fourth Quarter 2022

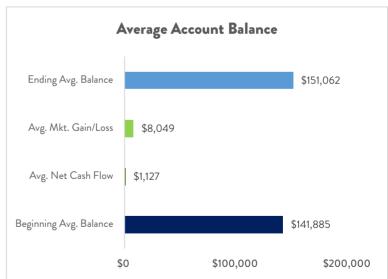
PLAN LEVEL CASH FLOWS

Cash Flow Cash Flow Market Beginning Value (-) **Ending Value** (+) Transfer Gain/Loss Fixed Income \$53,975,936 \$589,454 (\$778,700) \$90,522 \$354,781 \$54,231,993 Large Cap \$44,136,408 \$749,042 (\$573,863) \$324,470 \$3,206,083 \$47,842,141 Mid Cap \$17,886,579 \$414,555 (\$166,479) \$74,349 \$1,817,264 \$20,026,269 \$7,769,400 \$240,379 (\$121,050) \$529,419 \$8,330,597 Small Cap (\$87,552)\$9,867,710 International \$249,619 (\$80,749) (\$42,407)\$1,457,753 \$11,451,926 **Asset Allocation** \$40,268,971 \$1,089,843 (\$220,743) (\$369,289)\$2,618,426 \$43,387,209 **SDBA** \$1,181,337 \$0 \$0 \$9,907 (\$50,859)\$1,140,386 Total \$175,086,344 \$3,332,893 (\$1,941,583) \$0 \$9,932,867 \$186,410,520

HISTORICAL PLAN CASH FLOWS

			Market	
	Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
4Q22	\$175,086,344	\$1,391,310	\$9,932,867	\$186,410,520
YTD	\$211,583,102	\$1,092,184	(\$26,264,766)	\$186,410,520
2021	\$185,633,441	\$1,030,998	\$24,918,663	\$211,583,102
2020	\$163,277,656	\$2,858,713	\$19,497,072	\$185,633,441
2019	\$136,406,428	\$1,816,408	\$25,054,820	\$163,277,656
2018	N/A	N/A	N/A	\$136,406,428
2017	N/A	N/A	N/A	N/A





Equity Indices: Russell 3000, MSCI ACWI ex USA; Fixed Indices: US Treasury 3 Mo T-Bill, Bloomberg Global Aggregate Bond (rebalanced quarterly)

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PLAN ASSET ALLOCATION

Retirement Medical Trust Fourth Quarter 2022

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$86,537,188	45.9%
Voya Government Money Market A	VYAXX	\$14,573	0.0%
Sterling Capital Total Return Bond R6	STRDX	\$645,917	0.3%
Fidelity US Bond Index	FXNAX	\$44,022	0.0%
Fidelity Intermediate Treasury Bond Index	FUAMX	\$82,392	0.0%
	Total	\$87,324,092	46.3%

Large Cap	Ticker	Assets	%
Fidelity 500 Index	FXAIX	\$3,288,499	1.7%
Hartford Core Equity R6	HAITX	\$3,379,072	1.8%
	Total	\$6,667,571	3.5%

Mid Cap	Ticker	Assets	%
Fidelity Mid Cap Index	FSMDX	\$2,479,142	1.3%
Baron Growth Instl	BGRIX	\$2,045,004	1.1%
	Total	\$4,524,146	2.4%

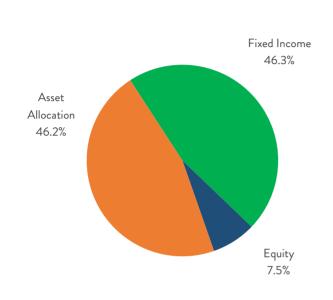
Small Cap	Ticker	Assets	%
Hartford Schroders US Small Cap Opps SDR	SCURX	\$322,107	0.2%
Fidelity Small Cap Index	FSSNX	\$1,361,839	0.7%
	Total	\$1 683 946	0.9%

International	Ticker	Assets	%
MFS International Diversification R6	MDIZX	\$766,936	0.4%
Fidelity Total International Index	FTIHX	\$462,185	0.2%
	Total	\$1,229,122	0.7%

Asset Allocation	Ticker	Assets	%
Conservative Allocation Portfolio	-	\$1,982,697	1.1%
Moderate Allocation Portfolio	-	\$3,989,987	2.1%
Aggressive Allocation Portfolio	-	\$5,388,664	2.9%
Vanguard Target Retirement Income	VTINX	\$1,452,955	0.8%
Vanguard Target Retirement 2020	VTWNX	\$13,977,800	7.4%
Vanguard Target Retirement 2025	VTTVX	\$350,420	0.2%
Vanguard Target Retirement 2030	VTHRX	\$29,739,240	15.8%
Vanguard Target Retirement 2035	VTTHX	\$119,080	0.1%
Vanguard Target Retirement 2040	VFORX	\$22,968,888	12.2%
Vanguard Target Retirement 2045	VTIVX	\$10,585	0.0%
Vanguard Target Retirement 2050	VFIFX	\$7,032,653	3.7%
Vanguard Target Retirement 2055	VFFVX	\$22,626	0.0%
Vanguard Target Retirement 2060	VTTSX	\$3,241	0.0%
Vanguard Target Retirement 2065	VLXVX	\$11,806	0.0%
Vanguard Target Retirement 2070	VSVNX	\$0	0.0%
	Total	\$87,050,641	46.2%

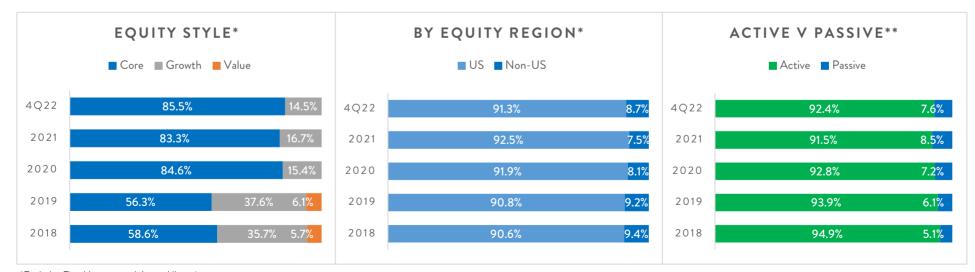
TOTAL PLAN ASSETS \$188,479,518

Retirement Medical Trust Fourth Quarter 2022



HISTORICAL PLAN ALLOCATION

Asset Class	4Q22	2021	2020	2019	2018	2017	2016	2015
Fixed Income	46.3%	44.6%	49.4%	54.2%	59.5%	N/A	N/A	N/A
Large Cap	3.5%	4.1%	3.7%	3.3%	2.8%	N/A	N/A	N/A
Mid Cap	2.4%	3.0%	2.7%	2.4%	2.0%	N/A	N/A	N/A
Small Cap	0.9%	0.9%	0.8%	0.9%	0.7%	N/A	N/A	N/A
International	0.7%	0.6%	0.6%	0.7%	0.6%	N/A	N/A	N/A
Asset Allocation	46.2%	46.8%	42.7%	38.6%	34.3%	N/A	N/A	N/A



^{*}Excludes Fixed Income and Asset Allocation assets

^{**}Excludes Asset Allocation assets

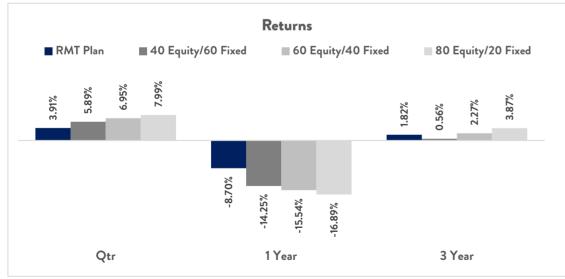
Retirement Medical Trust Fourth Quarter 2022

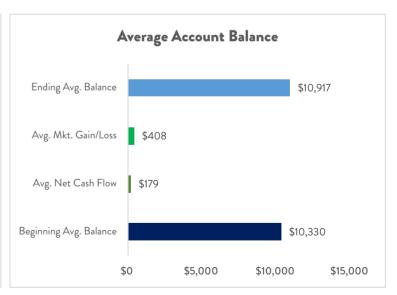
PLAN LEVEL CASH FLOWS

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$86,373,881	\$6,066,716	(\$1,662,105)	(\$3,744,539)	\$290,139	\$87,324,092
Large Cap	\$6,239,659	\$0	(\$98,400)	\$71,907	\$454,405	\$6,667,571
Mid Cap	\$4,053,279	\$676	(\$54,345)	\$101,315	\$423,222	\$4,524,146
Small Cap	\$1,536,252	\$0	(\$12,410)	\$53,455	\$106,650	\$1,683,946
International	\$1,053,976	\$0	(\$13,806)	\$32,357	\$156,594	\$1,229,122
Asset Allocation	\$79,092,952	\$0	(\$1,133,889)	\$3,485,505	\$5,606,072	\$87,050,641
Total	\$178,349,998	\$6,067,392	(\$2,974,955)	\$0	\$7,037,082	\$188,479,518

HISTORICAL PLAN CASH FLOWS

		Net Cash	Market	
	Beginning Value	Flow	Gain/Loss	Ending Value
4Q22	\$178,349,998	\$3,092,437	\$7,037,082	\$188,479,518
YTD	\$192,654,036	\$12,833,462	(\$17,007,980)	\$188,479,518
2021	\$167,283,890	\$12,112,368	\$13,257,779	\$192,654,036
2020	\$147,219,470	\$8,054,702	\$12,009,718	\$167,283,890
2019	\$124,574,529	\$9,670,091	\$12,974,851	\$147,219,470
2018	N/A	N/A	N/A	\$124,574,529





Equity Indices: Russell 3000, MSCI ACWI ex USA; Fixed Indices: US Treasury 3 Mo T-Bill, Bloomberg Global Aggregate Bond (rebalanced quarterly)

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Section 3

PST Deferred Compensation Retirement Plan

Fourth Quarter 2022

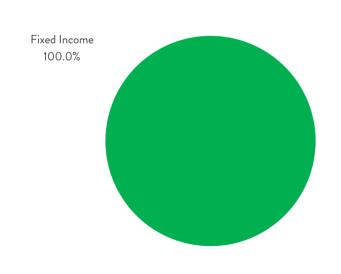
HISTORICAL PLAN CASH FLOWS

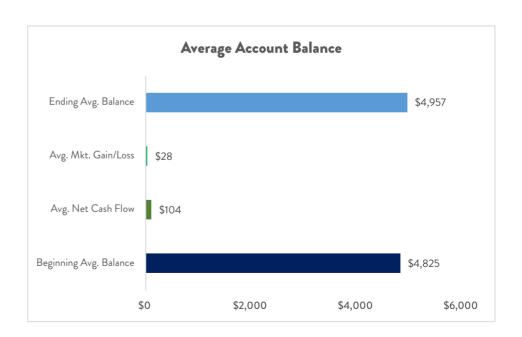
Fixed Income	Ticker	Assets	%
Stabilizer	-	\$47,281,493	100.0%
	Total	\$47,281,493	100.0%

	Beginning Value	Net Cash Flow	Market Gain/Loss	Ending Value
4Q22	\$46,026,768	\$990,545	\$264,180	\$47,281,493
YTD	\$43,987,776	\$2,489,021	\$804,696	\$47,281,493
2021	\$40,555,917	\$2,736,548	\$695,312	\$43,987,776
2020	\$37,906,246	\$1,699,237	\$950,434	\$40,555,917
2019	\$36,665,327	\$292,121	\$948,798	\$37,906,246
2018	N/A	N/A	N/A	\$36,665,327

TOTAL PLAN ASSETS

\$47,281,493





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Section 4

All Plans - Combined Fourth Quarter 2022

Proposed Investme	ent Policy Status
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Key: Pa	ss / • Fail
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Stabilizer
Voya Fixed Account
Voya Government Money Market A
Sterling Capital Total Return Bond R6
Fidelity US Bond Index
Fidelity Intermediate Treasury Bond Index

Performance	Qualitative
Factors	Factors
P	P
•	P
P	P
P	P
P	P
P	P

On-Watch	
Information	Notes
-	
-	Trailing Benchmark and Peer Group for 5 year period.
-	
-	
-	
-	

Fidelity 500 Index
Hartford Core Equity R6
Fidelity Mid Cap Index
Baron Growth Instl
Hartford Schroders US Small Cap Opps SDR
Fidelity Small Cap Index
MFS International Diversification R6
Fidelity Total International Index

P	P
P	P
P	P
P	P
P	P
P	P
P	P
P	P

-	
-	
-	
-	
-	
-	
-	
-	

Conservative Allocation Portfolio
Moderate Allocation Portfolio
Aggressive Allocation Portfolio
Vanguard Target Retirement Income
Vanguard Target Retirement 2020
Vanguard Target Retirement 2025
Vanguard Target Retirement 2030
Vanguard Target Retirement 2030

P	P
P	P
•	P
P	P
P	P
P	P
P	P
P	P

-	
3Q21 (Performance)	Performance in compliance as of 2Q22.
4Q21 (Performance)	Trailing Benchmark and Peer Group for 5 year period.
-	
-	
-	Target date suite to be mapped to CIT version of funds.
-	
-	

INVESTMENT POLICY STATEMENT COMPLIANCE REPORT

All Plans - Combined Fourth Quarter 2022

Key: 🕑	Pass /	•	Fail
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Vanguard Target Retirement 2040 Vanguard Target Retirement 2045 Vanguard Target Retirement 2050 Vanguard Target Retirement 2055 Vanguard Target Retirement 2060 Vanguard Target Retirement 2065 Vanguard Target Retirement 2070

Performance Factors	Qualitative Factors
P	(
P	P
P	P
P	P
P	P
P	P
P	P

Proposed Investment Policy Status

On-Watch	
Information	Notes
-	
-	
-	
-	Target date suite to be mapped to CIT version of funds.
-	
-	
-	

PERFORMANCE REVIEW

	Annualized											
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Stabilizer	0.57	1.80	1.80	1.95	2.19	2.26	1.64	2.42	2.59	2.50	N/A	N/A
5 Yr Constant Maturity US Treasury Yield	0.99	3.00	3.00	1.46	1.81	1.68	0.85	0.54	1.96	2.75	1.91	1.44
+/- Index	(0.42)	(1.20)	(1.20)	0.49	0.38	0.58	0.79	1.88	0.63	(0.25)	-	-
US Stable Value	21	29	29	16	9	6	24	4	7	6	N/A	N/A
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Voya Fixed Account	0.25	1.00	1.00	1.01	1.14	1.40	1.50	1.40	1.85	1.90	N/A	N/A
5 Yr Constant Maturity US Treasury Yield	0.99	3.00	3.00	1.46	1.81	1.68	0.85	0.54	1.96	2.75	1.91	1.44
+/- Index	(0.74)	(2.00)	(2.00)	(0.45)	(0.67)	(0.28)	0.65	0.86	(0.11)	(0.85)	-	-
US Stable Value	97	90	90	90	94	68	36	86	82	42	N/A	N/A
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Voya Government Money Market A	0.86	1.43	1.43	0.60	1.04	0.56	0.10	0.27	1.88	1.51	0.26	80.0
US 90 Day T-Bill	0.99	2.01	2.01	0.80	1.28	0.78	0.04	0.36	2.06	1.94	0.93	0.32
+/- Index	(0.13)	(0.58)	(0.58)	(0.20)	(0.24)	(0.22)	0.06	(0.09)	(0.18)	(0.43)	(0.67)	(0.24)
US Money Market - Taxable	17	27	27	23	37	42	2	52	45	44	77	41
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Sterling Capital Total Return Bond R6	1.57	-13.15	-13.15	-2.08	0.48	1.58	-1.12	9.35	9.37	-0.27	4.33	3.75
Bloomberg US Aggregate Bond Index	1.87	-13.01	-13.01	-2.71	0.02	1.06	-1.54	7.51	8.72	0.01	3.54	2.65
+/- Index	(0.30)	(0.14)	(0.14)	0.63	0.46	0.52	0.42	1.84	0.65	(0.28)	0.79	1.10
US Fund Intermediate Core Bond	57	34	34	15	11	6	28	15	18	42	10	12
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Fidelity US Bond Index	1.68	-13.03	-13.03	-2.72	-0.02	1.01	-1.79	7.80	8.48	0.01	3.50	2.52
Bloomberg US Aggregate Bond Index	1.87	-13.01	-13.01	-2.71	0.02	1.06	-1.54	7.51	8.72	0.01	3.54	2.65
+/- Index	(0.19)	(0.02)	(0.02)	(0.01)	(0.04)	(0.05)	(0.25)	0.29	(0.23)	0.00	(0.04)	(0.13)
US Fund Intermediate Core Bond	43	29	29	46	38	42	65	50	48	26	43	55

PERFORMANCE REVIEW

				Annualized								
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Fidelity Intermediate Treasury Bond Index	0.91	-12.72	-12.72	-2.61	0.06	0.65	-3.00	9.10	7.25	1.23	2.20	0.97
Bloomberg US Treasury 5-10 Year Index	1.18	-12.58	-12.58	-2.56	0.13	0.73	-2.97	9.09	7.48	1.22	2.17	1.18
+/- Index	(0.27)	(0.14)	(0.14)	(0.05)	(0.07)	(80.0)	(0.03)	0.01	(0.23)	0.01	0.03	(0.21)
US Fund Intermediate Government	71	76	76	33	19	26	92	8	1	2	16	59
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Fidelity 500 Index	7.56	-18.13	-18.13	7.65	9.41	12.55	28.69	18.40	31.47	-4.40	21.81	11.97
S&P 500 Index	7.56	-18.11	-18.11	7.66	9.42	12.56	28.71	18.40	31.49	-4.38	21.83	11.96
+/- Index	0.00	(0.02)	(0.02)	(0.01)	(0.01)	(0.01)	(0.02)	0.00	(0.01)	(0.02)	(0.02)	0.01
US Fund Large Blend	56	49	49	30	20	11	21	33	22	22	32	27
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Hartford Core Equity R6	7.00	-18.65	-18.65	6.30	9.63	13.14	24.62	18.49	33.89	-1.55	22.17	5.75
S&P 500 Index	7.56	-18.11	-18.11	7.66	9.42	12.56	28.71	18.40	31.49	-4.38	21.83	11.96
+/- Index	(0.56)	(0.54)	(0.54)	(1.36)	0.21	0.58	(4.09)	0.09	2.40	2.83	0.34	(6.21)
US Fund Large Blend	76	61	61	70	14	2	72	31	5	5	28	91
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Fidelity Mid Cap Index	9.21	-17.28	-17.28	5.89	7.10	10.95	22.56	17.11	30.51	-9.05	18.47	13.86
Russell Mid Cap Index	9.18	-17.32	-17.32	5.88	7.10	10.96	22.58	17.10	30.54	-9.06	18.52	13.80
+/- Index	0.03	0.04	0.04	0.01	0.00	(0.01)	(0.02)	0.01	(0.03)	0.01	(0.05)	0.07
US Fund Mid-Cap Blend	51	67	67	53	30	16	66	24	24	25	26	57
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Baron Growth Instl	11.93	-22.40	-22.40	7.45	11.15	12.33	20.15	33.05	40.50	-2.67	27.35	6.31
Russell Mid Cap Growth Index	6.90	-26.72	-26.72	3.85	7.64	11.41	12.73	35.59	35.47	-4.75	25.27	7.33
+/- Index	5.03	4.32	4.32	3.60	3.51	0.92	7.42	(2.53)	5.03	2.08	2.09	(1.02)
US Fund Mid-Cap Growth	4	13	13	11	7	16	16	61	8	28	32	41

PERFORMANCE REVIEW

	Annualized											
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Hartford Schroders US Small Cap Opps SDR	10.04	-16.67	-16.67	3.48	5.49	9.95	22.98	8.14	32.06	-10.72	14.81	19.49
Russell 2000 Index	6.23	-20.44	-20.44	3.10	4.13	9.01	14.82	19.96	25.52	-11.01	14.65	21.31
+/- Index	3.81	3.77	3.77	0.38	1.36	0.94	8.16	(11.82)	6.53	0.29	0.16	(1.82)
US Fund Small Blend	27	49	49	68	32	27	51	67	3	32	27	69
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Fidelity Small Cap Index	6.25	-20.27	-20.27	3.15	4.22	9.17	14.71	19.99	25.71	-10.88	14.85	21.63
Russell 2000 Index	6.23	-20.44	-20.44	3.10	4.13	9.01	14.82	19.96	25.52	-11.01	14.65	21.31
+/- Index	0.02	0.17	0.17	0.05	0.09	0.16	(0.11)	0.03	0.18	0.14	0.20	0.32
US Fund Small Blend	89	79	79	73	61	48	89	12	36	34	26	46
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
MFS International Diversification R6	14.74	-17.02	-17.02	1.06	3.00	5.73	7.78	15.43	26.09	-10.92	30.25	2.47
MSCI ACWI Ex-USA (Net) Index	14.28	-16.00	-16.00	0.07	0.88	3.80	7.82	10.65	21.51	-14.20	27.19	4.50
+/- Index	0.46	(1.02)	(1.02)	0.99	2.12	1.93	(0.04)	4.78	4.58	3.27	3.05	(2.03)
US Fund Foreign Large Blend	79	62	62	37	9	8	70	20	20	9	9	28
		\	434	2).	->/	401/			2212	2242	2247	
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Fidelity Total International Index	14.78	-16.28	-16.28	0.29	0.96	-	8.47	11.07	21.48	-14.38	27.63	-
MSCI ACWI Ex-USA IMI (Net) Index	14.15	-16.58	-16.58	0.20	0.85	3.98	8.53	11.12	21.63	-14.76	27.81	4.41
+/- Index	0.63	0.30	0.30	0.09	0.11	-	(0.06)	(0.04)	(0.16)	0.37	(0.18)	-
US Fund Foreign Large Blend	78	55	55	58	58	-	65	42	62	39	27	-
	OTD	VTD	47	27	ΓV	10V	2021	2020	2010	2010	2017	2016
0 1 411 1 2 5 1	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Conservative Allocation Portfolio	3.60	-3.85	-3.85	3.40	3.73	4.76	6.71	7.74	9.55	-0.82	N/A	N/A
Dow Jones Moderately Conservative Index	5.46	-14.42	-14.42	-0.44	1.76	3.66	4.76	10.08	14.14	-3.15	10.91	5.65
+/- Index	(1.86)	10.57	10.57	3.84	1.97	1.10	1.95	(2.34)	(4.59)	2.33	-	-
US Fund Allocation30% to 50% Equity	87	2	2	4	13	26	81	62	100	1	N/A	N/A

PERFORMANCE REVIEW

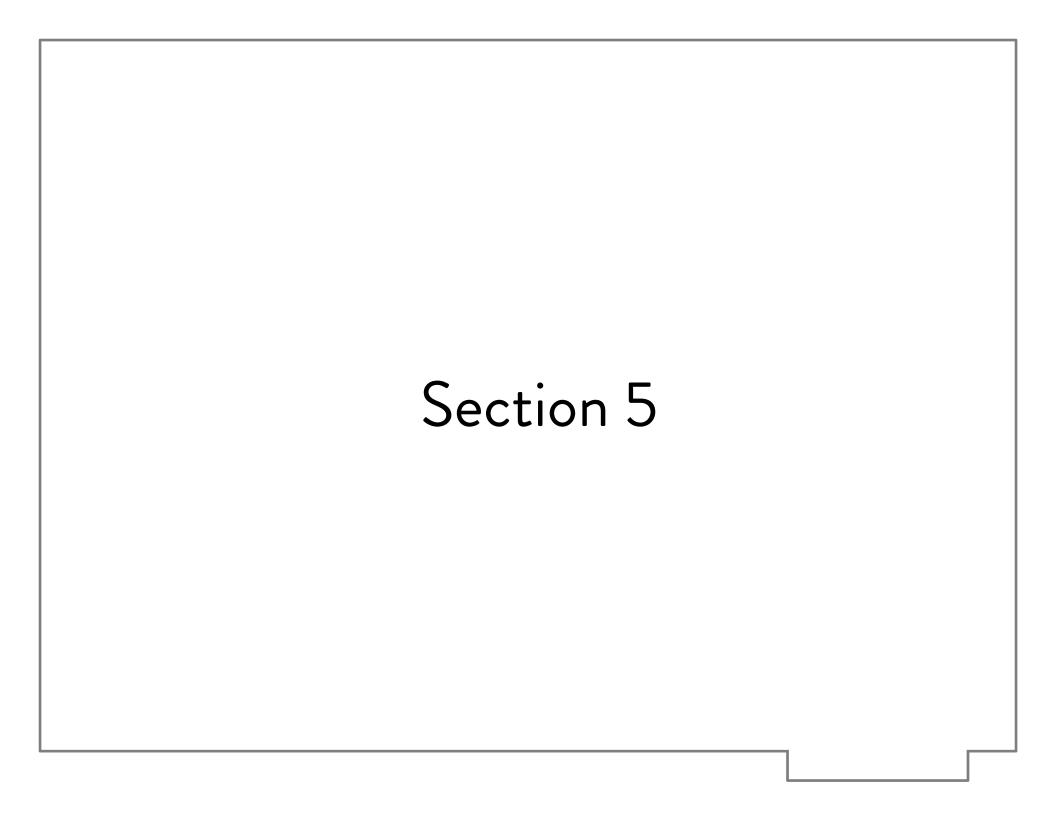
				-	Annualize	d						
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Moderate Allocation Portfolio	6.80	-12.41	-12.41	2.40	3.67	6.38	11.27	10.15	18.64	-6.01	N/A	N/A
Dow Jones Moderate Index	6.80	-14.97	-14.97	1.45	3.26	5.66	9.40	12.24	18.60	-5.21	15.15	7.67
+/- Index	0.00	2.56	2.56	0.95	0.41	0.72	1.87	(2.09)	0.04	(0.80)	-	-
US Fund Allocation50% to 70% Equity	40	25	25	62	61	49	76	71	66	56	N/A	N/A
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Aggressive Allocation Portfolio	8.78	-16.14	-16.14	2.67	4.20	7.30	14.78	12.42	23.80	-8.33	N/A	N/A
Dow Jones Moderately Aggressive Index	8.26	-15.59	-15.59	3.19	4.58	7.40	14.05	14.14	22.84	-7.33	19.08	9.31
+/- Index	0.52	(0.55)	(0.55)	(0.52)	(0.38)	(0.10)	0.73	(1.72)	0.96	(1.00)	-	-
US Fund Allocation70% to 85% Equity	32	50	50	72	60	48	66	60	26	59	N/A	N/A
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement Income	3.74	-12.74	-12.74	0.34	2.30	3.62	5.25	10.02	13.16	-1.99	8.47	5.25
Vanguard Retirement Income Index	3.95	-12.44	-12.44	0.72	2.58	3.86	5.43	10.70	13.40	-1.98	8.67	5.35
+/- Index	(0.21)	(0.30)	(0.30)	(0.38)	(0.28)	(0.24)	(0.18)	(0.68)	(0.24)	(0.01)	(0.19)	(0.10)
US Fund Target-Date Retirement	62	49	49	32	32	30	64	30	48	18	50	30
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement 2020	4.97	-14.15	-14.15	1.33	3.22	5.83	8.17	12.04	17.63	-4.24	14.08	6.95
Vanguard Retirement 2020 Index	5.12	-13.77	-13.77	1.81	3.58	6.13	8.43	12.86	17.87	-4.14	14.22	7.17
+/- Index	(0.15)	(0.38)	(0.38)	(0.48)	(0.36)	(0.30)	(0.26)	(0.82)	(0.24)	(0.10)	(0.14)	(0.22)
US Fund Target-Date 2020	69	40	40	48	37	26	62	41	32	47	23	30
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement 2025	6.03	-15.55	-15.55	1.66	3.58	6.43	9.80	13.30	19.63	-5.15	15.94	7.48
Vanguard Retirement 2025 Index	6.16	-15.02	-15.02	2.23	4.01	6.77	10.10	14.19	19.93	-5.01	16.08	7.66
+/- Index	(0.13)	(0.53)	(0.53)	(0.57)	(0.43)	(0.34)	(0.30)	(0.89)	(0.30)	(0.14)	(0.14)	(0.18)
US Fund Target-Date 2025	40	52	52	39	31	18	47	34	20	48	22	21

PERFORMANCE REVIEW

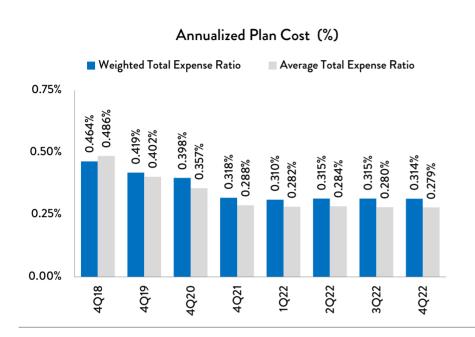
		Annualized										
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement 2030	6.81	-16.27	-16.27	2.09	3.94	6.99	11.38	14.10	21.07	-5.86	17.52	7.85
Vanguard Retirement 2030 Index	6.92	-15.71	-15.71	2.66	4.35	7.33	11.65	14.96	21.33	-5.74	17.65	8.11
+/- Index	(0.11)	(0.56)	(0.56)	(0.57)	(0.41)	(0.34)	(0.27)	(0.86)	(0.26)	(0.12)	(0.13)	(0.26)
US Fund Target-Date 2030	39	47	47	46	39	26	54	35	37	39	37	27
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement 2035	7.45	-16.62	-16.62	2.64	4.34	7.57	12.96	14.79	22.44	-6.58	19.12	8.26
Vanguard Retirement 2035 Index	7.41	-16.22	-16.22	3.14	4.73	7.91	13.24	15.67	22.76	-6.48	19.24	8.55
+/- Index	0.04	(0.40)	(0.40)	(0.50)	(0.39)	(0.34)	(0.28)	(0.87)	(0.33)	(0.10)	(0.12)	(0.29)
US Fund Target-Date 2035	62	38	38	52	42	30	78	38	49	31	40	32
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement 2040	8.20	-16.98	-16.98	3.17	4.74	8.06	14.56	15.47	23.86	-7.32	20.71	8.73
Vanguard Retirement 2040 Index	8.23	-16.51	-16.51	3.70	5.14	8.42	14.85	16.31	24.19	-7.22	20.87	8.98
+/- Index	(0.03)	(0.47)	(0.47)	(0.53)	(0.40)	(0.36)	(0.29)	(0.83)	(0.33)	(0.11)	(0.16)	(0.25)
US Fund Target-Date 2040	63	34	34	49	40	23	80	39	49	35	30	23
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement 2045	8.89	-17.36	-17.36	3.74	5.14	8.34	16.16	16.30	24.94	-7.90	21.42	8.87
Vanguard Retirement 2045 Index	8.99	-16.84	-16.84	4.26	5.55	8.71	16.45	17.03	25.36	-7.77	21.54	9.13
+/- Index	(0.10)	(0.52)	(0.52)	(0.52)	(0.41)	(0.37)	(0.29)	(0.73)	(0.42)	(0.13)	(0.11)	(0.26)
US Fund Target-Date 2045	53	31	31	32	27	19	65	34	40	41	24	26
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement 2050	9.23	-17.46	-17.46	3.80	5.18	8.36	16.41	16.39	24.98	-7.90	21.39	8.85
Vanguard Retirement 2050 Index	9.18	-17.07	-17.07	4.30	5.58	8.72	16.77	17.18	25.36	-7.77	21.54	9.13
+/- Index	0.05	(0.39)	(0.39)	(0.50)	(0.40)	(0.36)	(0.36)	(0.79)	(0.38)	(0.13)	(0.14)	(0.28)
US Fund Target-Date 2050	44	29	29	32	28	20	70	35	45	37	31	27

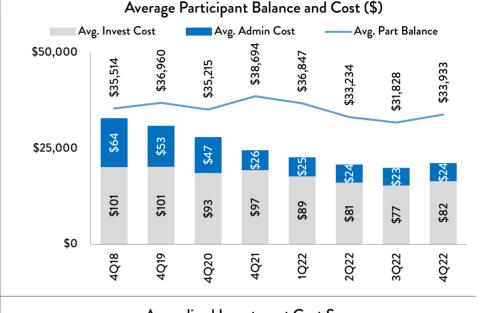
PERFORMANCE REVIEW

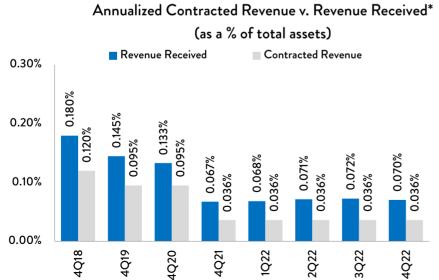
	Annualized											
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement 2055	9.23	-17.46	-17.46	3.79	5.18	8.34	16.44	16.32	24.98	-7.89	21.38	8.88
Vanguard Retirement 2055 Index	9.18	-17.07	-17.07	4.30	5.58	8.72	16.77	17.18	25.36	-7.77	21.54	9.13
+/- Index	0.05	(0.39)	(0.39)	(0.51)	(0.40)	(0.38)	(0.33)	(0.86)	(0.38)	(0.12)	(0.16)	(0.25)
US Fund Target-Date 2055	48	26	26	36	29	26	75	40	47	35	39	26
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement 2060	9.23	-17.46	-17.46	3.79	5.18	8.34	16.44	16.32	24.96	-7.87	21.36	8.84
Vanguard Retirement 2060 Index	9.18	-17.07	-17.07	4.30	5.58	8.72	16.77	17.18	25.36	-7.77	21.54	9.13
+/- Index	0.05	(0.39)	(0.39)	(0.51)	(0.40)	(0.38)	(0.33)	(0.85)	(0.40)	(0.10)	(0.18)	(0.28)
US Fund Target-Date 2060	53	25	25	38	32	50	77	41	56	30	43	23
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement 2065	9.24	-17.39	-17.39	3.78	5.15	-	16.46	16.17	24.96	-7.95		-
Vanguard Retirement 2065 Index	9.18	-17.07	-17.07	4.30	5.58	-	16.77	17.18	25.36	-7.77	-	-
+/- Index	0.06	(0.32)	(0.32)	(0.52)	(0.43)	-	(0.31)	(1.00)	(0.39)	(0.18)	-	-
US Fund Target-Date 2065+	51	18	18	31	31	-	67	56	59	12	-	-
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	2021	2020	2019	2018	2017	2016
Vanguard Target Retirement 2070	9.21					-	-					-
Vanguard Retirement 2070 Index	9.18	-	-	-	-	-	-	-	-	-	-	-
+/- Index	0.03	-	_	_	_	-		_	_	-	-	-
US Fund Target-Date 2065+	54	-	-	-	-	-	-	-	-	-	-	-

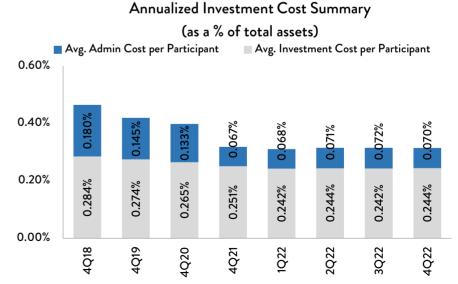


Full-Time Plans - Combined









^{*}Revenue received is 0.070% annually on all assets excluding SDBA. Contracted revenue is 0.036% annually on all assets excluding SDBA.

Full-Time Plans - Combined

Fourth Quarter 2022

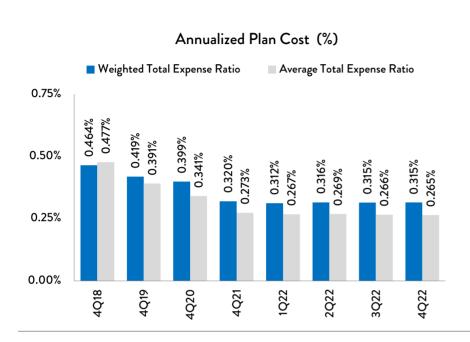
Annualized

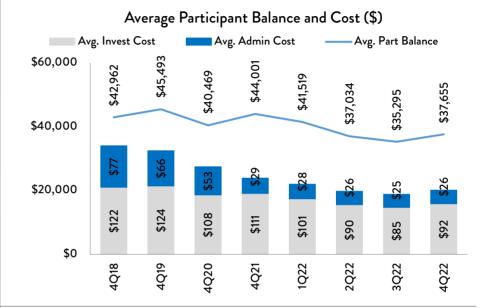
					Est. Total Invest.	Est. Total Admin.
Fund	Ticker	Quarter End Assets	Net Expense Ratio	Admin Fee	Cost	Cost
Stabilizer	-	\$278,212,715	0.34%	0.070%	\$945,923	\$195,287
Voya Fixed Account**	-	\$86,537,188	0.41%	0.070%	\$354,802	\$60,743
Voya Government Money Market A	VYAXX	\$14,573	0.40%	0.070%	\$58	\$10
Sterling Capital Total Return Bond R6	STRDX	\$30,009,705	0.35%	0.070%	\$105,034	\$21,065
Fidelity US Bond Index	FXNAX	\$8,789,982	0.03%	0.070%	\$2,197	\$6,170
Fidelity Intermediate Treasury Bond Index	FUAMX	\$2,317,815	0.03%	0.070%	\$695	\$1,627
Fidelity 500 Index	FXAIX	\$145,863,493	0.02%	0.070%	\$21,880	\$102,387
Hartford Core Equity R6	HAITX	\$128,738,836	0.36%	0.070%	\$463,460	\$90,366
Fidelity Mid Cap Index	FSMDX	\$71,693,868	0.03%	0.070%	\$17,923	\$50,324
Baron Growth Instl*	BGRIX	\$46,085,553	0.88%	0.070%	\$405,553	\$32,349
Hartford Schroders US Small Cap Opps SDR	SCURX	\$11,307,739	0.95%	0.070%	\$107,424	\$7,937
Fidelity Small Cap Index	FSSNX	\$42,624,393	0.03%	0.070%	\$10,656	\$29,920
MFS International Diversification R6	MDIZX	\$53,891,588	0.72%	0.070%	\$388,019	\$37,828
Fidelity Total International Index	FTIHX	\$33,976,259	0.06%	0.070%	\$20,386	\$23,849
Conservative Allocation Portfolio	-	\$40,195,020	0.25%	0.070%	\$100,488	\$28,214
Moderate Allocation Portfolio*	-	\$84,776,399	0.16%	0.070%	\$135,642	\$59,507
Aggressive Allocation Portfolio*	-	\$63,911,107	0.10%	0.070%	\$63,911	\$44,861
Vanguard Target Retirement Income	VTINX	\$7,127,007	0.08%	0.070%	\$5,702	\$5,003
Vanguard Target Retirement 2020	VTWNX	\$31,210,163	0.08%	0.070%	\$24,968	\$21,907
Vanguard Target Retirement 2025	VTTVX	\$3,221,804	0.08%	0.070%	\$2,577	\$2,261
Vanguard Target Retirement 2030	VTHRX	\$67,746,767	0.08%	0.070%	\$54,197	\$47,554
Vanguard Target Retirement 2035	VTTHX	\$3,379,497	0.08%	0.070%	\$2,704	\$2,372
Vanguard Target Retirement 2040	VFORX	\$67,284,116	0.08%	0.070%	\$53,827	\$47,229
Vanguard Target Retirement 2045	VTIVX	\$2,557,266	0.08%	0.070%	\$2,046	\$1,795
Vanguard Target Retirement 2050	VFIFX	\$50,329,537	0.08%	0.070%	\$40,264	\$35,328
Vanguard Target Retirement 2055	VFFVX	\$2,005,506	0.08%	0.070%	\$1,604	\$1,408
Vanguard Target Retirement 2060	VTTSX	\$1,664,250	0.08%	0.070%	\$1,331	\$1,168
Vanguard Target Retirement 2065	VLXVX	\$935,071	0.08%	0.070%	\$748	\$656
Vanguard Target Retirement 2070	VSVNX	\$11,542	0.08%	0.070%	\$9	\$8
Self-Directed Brokerage Account	-	\$5,423,893	-	0.000%	-	\$0

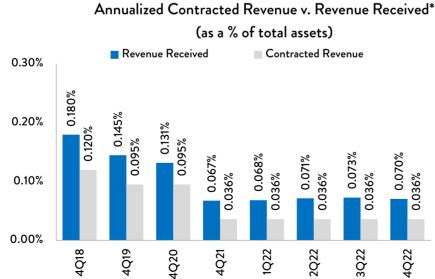
Plan Administration Cost	Quarter	Annualized
Contracted Revenue to Voya (3.6 bps excluding SDBA - est):	\$122,978	\$491,911
Additional Administrative Allowance (\$505,000 pro-rated - est):	\$116,807	\$467,226
Total Plan Administration Cost (7.0 bps excluding SDBA - est):	\$239,784	\$959,137

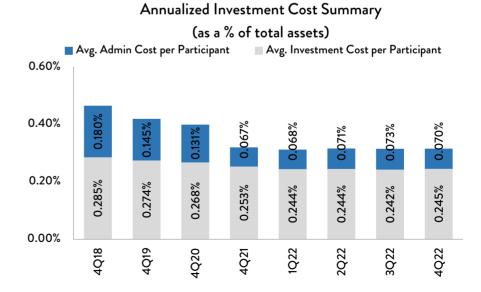
^{*}Revenue derived from funds credited to participant accounts in which they are held. For fee reporting purposes, the credit has been used to offset the reported fund expense ratio.

^{**}No explicit expense ratio given for Voya Fixed Account. An expense ratio of 0.41% is assumed for reporting purposes.









^{*}Revenue received is 0.070% annually on all assets excluding SDBA. Contracted revenue is 0.036% annually on all assets excluding SDBA.

457 Deferred Compensation Plan

Fourth Quarter 2022

Annualized

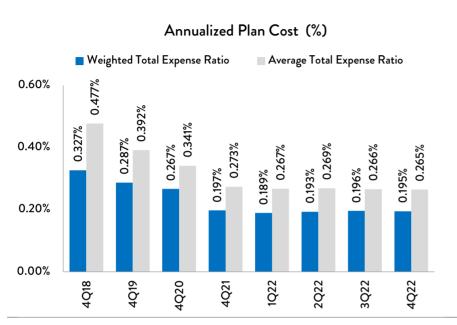
					Est. Total Invest.	Est. Total Admin.
Fund	Ticker	Quarter End Assets	Net Expense Ratio	Admin Fee	Cost	Cost
Stabilizer	-	\$226,456,843	0.34%	0.070%	\$769,953	\$158,970
Sterling Capital Total Return Bond R6	STRDX	\$25,299,090	0.35%	0.070%	\$88,547	\$17,760
Fidelity US Bond Index	FXNAX	\$7,951,261	0.03%	0.070%	\$1,988	\$5,582
Fidelity Intermediate Treasury Bond Index	FUAMX	\$1,819,541	0.03%	0.070%	\$546	\$1,277
Fidelity 500 Index	FXAIX	\$116,663,886	0.02%	0.070%	\$17,500	\$81,897
Hartford Core Equity R6	HAITX	\$101,472,000	0.36%	0.070%	\$365,299	\$71,232
Fidelity Mid Cap Index	FSMDX	\$55,700,226	0.03%	0.070%	\$13,925	\$39,101
Baron Growth Instl*	BGRIX	\$36,510,058	0.88%	0.070%	\$321,289	\$25,630
Hartford Schroders US Small Cap Opps SDR	SCURX	\$9,497,294	0.95%	0.070%	\$90,224	\$6,667
Fidelity Small Cap Index	FSSNX	\$33,909,331	0.03%	0.070%	\$8,477	\$23,804
MFS International Diversification R6	MDIZX	\$45,370,242	0.72%	0.070%	\$326,666	\$31,849
Fidelity Total International Index	FTIHX	\$29,401,837	0.06%	0.070%	\$17,641	\$20,640
Conservative Allocation Portfolio	-	\$27,693,117	0.25%	0.070%	\$69,233	\$19,440
Moderate Allocation Portfolio*	-	\$63,612,213	0.16%	0.070%	\$101,780	\$44,655
Aggressive Allocation Portfolio*	-	\$50,393,395	0.10%	0.070%	\$50,393	\$35,376
Vanguard Target Retirement Income	VTINX	\$4,818,278	0.08%	0.070%	\$3,855	\$3,382
Vanguard Target Retirement 2020	VTWNX	\$11,757,706	0.08%	0.070%	\$9,406	\$8,254
Vanguard Target Retirement 2025	VTTVX	\$2,271,280	0.08%	0.070%	\$1,817	\$1,594
Vanguard Target Retirement 2030	VTHRX	\$25,881,903	0.08%	0.070%	\$20,706	\$18,169
Vanguard Target Retirement 2035	VTTHX	\$2,144,139	0.08%	0.070%	\$1,715	\$1,505
Vanguard Target Retirement 2040	VFORX	\$33,465,537	0.08%	0.070%	\$26,772	\$23,492
Vanguard Target Retirement 2045	VTIVX	\$1,637,645	0.08%	0.070%	\$1,310	\$1,150
Vanguard Target Retirement 2050	VFIFX	\$38,057,422	0.08%	0.070%	\$30,446	\$26,716
Vanguard Target Retirement 2055	VFFVX	\$1,358,782	0.08%	0.070%	\$1,087	\$954
Vanguard Target Retirement 2060	VTTSX	\$1,409,175	0.08%	0.070%	\$1,127	\$989
Vanguard Target Retirement 2065	VLXVX	\$832,987	0.08%	0.070%	\$666	\$585
Vanguard Target Retirement 2070	VSVNX	\$7,960	0.08%	0.070%	\$6	\$6
Self-Directed Brokerage Account	-	\$4,283,507	-	0.000%	-	\$0
TOTAL	,	\$959 676 649			\$2 342 375	\$670,677

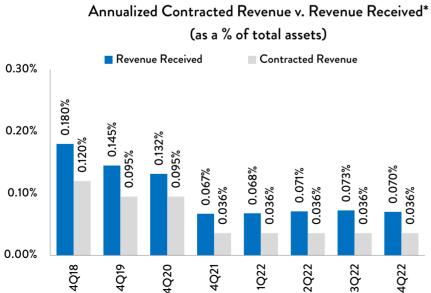
TOTAL \$959,676,649 \$2,342,375 \$670,677

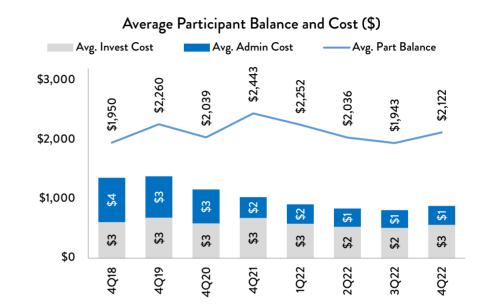
Plan Administration Cost	Quarter	Annualized
Plan Generated Revenue (est):	\$167,669	\$670,677
Contracted Revenue (est):	\$85,985	\$343,942
Net Excess/(Deficit) (est):	\$81,684	\$326,735

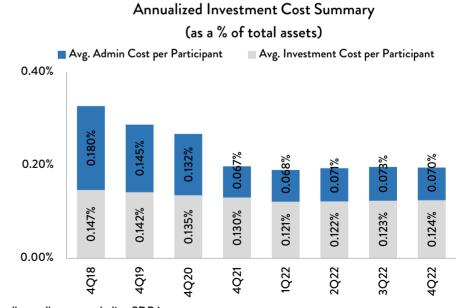
^{*}Revenue derived from funds credited to participant accounts in which they are held. For fee reporting purposes, the credit has been used to offset the reported fund expense ratio.

401(a) Defined Contribution Plan









^{*}Revenue received is 0.070% annually on all assets excluding SDBA. Contracted revenue is 0.036% annually on all assets excluding SDBA.

401(a) Defined Contribution Plan

Fourth Quarter 2022

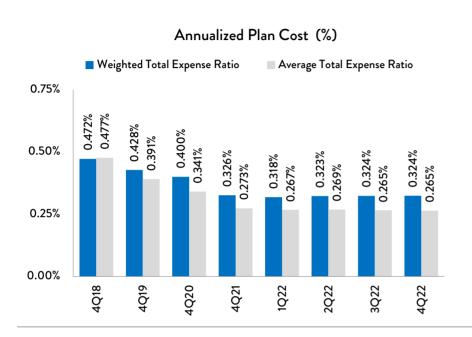
Annualized

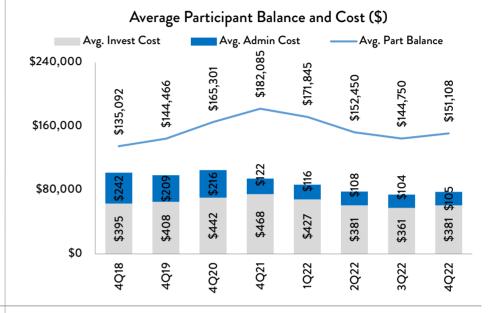
					Est. Total Invest.	Est. Total Admin
Fund	Ticker	Quarter End Assets	Net Expense Ratio	Admin Fee	Cost	Cost
Stabilizer	-	\$2,522,003	0.34%	0.070%	\$8,575	\$1,772
Sterling Capital Total Return Bond R6	STRDX	\$227,294	0.35%	0.070%	\$796	\$160
Fidelity US Bond Index	FXNAX	\$17,748	0.03%	0.070%	\$4	\$12
Fidelity Intermediate Treasury Bond Index	FUAMX	\$32,112	0.03%	0.070%	\$10	\$23
Fidelity 500 Index	FXAIX	\$1,319,964	0.02%	0.070%	\$198	\$928
Hartford Core Equity R6	HAITX	\$636,767	0.36%	0.070%	\$2,292	\$447
Fidelity Mid Cap Index	FSMDX	\$584,867	0.03%	0.070%	\$146	\$411
Baron Growth Instl*	BGRIX	\$433,856	0.88%	0.070%	\$3,818	\$305
Hartford Schroders US Small Cap Opps SDR	SCURX	\$160,218	0.95%	0.070%	\$1,522	\$113
Fidelity Small Cap Index	FSSNX	\$350,746	0.03%	0.070%	\$88	\$246
MFS International Diversification R6	MDIZX	\$183,708	0.72%	0.070%	\$1,323	\$129
Fidelity Total International Index	FTIHX	\$231,013	0.06%	0.070%	\$139	\$162
Conservative Allocation Portfolio	-	\$960,945	0.25%	0.070%	\$2,402	\$675
Moderate Allocation Portfolio*	-	\$1,357,838	0.16%	0.070%	\$2,173	\$954
Aggressive Allocation Portfolio*	-	\$1,222,454	0.10%	0.070%	\$1,222	\$859
Vanguard Target Retirement Income	VTINX	\$743,779	0.08%	0.070%	\$595	\$523
Vanguard Target Retirement 2020	VTWNX	\$3,811,734	0.08%	0.070%	\$3,049	\$2,679
Vanguard Target Retirement 2025	VTTVX	\$373,888	0.08%	0.070%	\$299	\$263
Vanguard Target Retirement 2030	VTHRX	\$8,182,060	0.08%	0.070%	\$6,546	\$5,750
Vanguard Target Retirement 2035	VTTHX	\$603,608	0.08%	0.070%	\$483	\$424
Vanguard Target Retirement 2040	VFORX	\$8,168,562	0.08%	0.070%	\$6,535	\$5,740
Vanguard Target Retirement 2045	VTIVX	\$676,694	0.08%	0.070%	\$541	\$476
Vanguard Target Retirement 2050	VFIFX	\$3,666,628	0.08%	0.070%	\$2,933	\$2,577
Vanguard Target Retirement 2055	VFFVX	\$546,162	0.08%	0.070%	\$437	\$384
Vanguard Target Retirement 2060	VTTSX	\$237,898	0.08%	0.070%	\$190	\$167
Vanguard Target Retirement 2065	VLXVX	\$23,381	0.08%	0.070%	\$19	\$16
Vanguard Target Retirement 2070	VSVNX	\$35	0.08%	0.070%	\$0	\$0
TOTAL		\$37,275,963			\$46,335	\$26,196

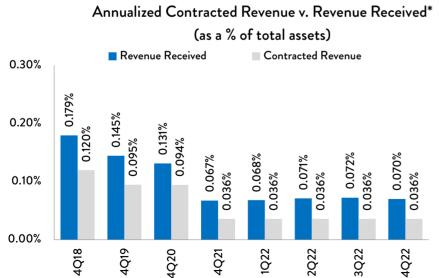
Plan Administration Cost		Quarter	Annualized
	Plan Generated Revenue (est):	\$6,549	\$26,196
	Contracted Revenue (est):	\$3,355	\$13,419
	Net Excess/(Deficit) (est):	\$3,194	\$12,777

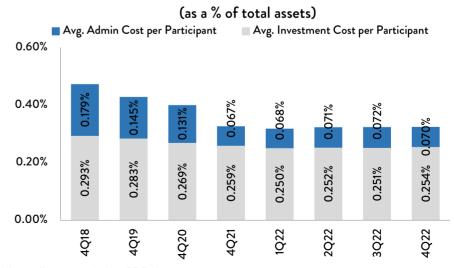
^{*}Revenue derived from funds credited to participant accounts in which they are held. For fee reporting purposes, the credit has been used to offset the reported fund expense ratio.

401(k) Defined Contribution Plan Fourth Quarter 2022









Annualized Investment Cost Summary

^{*}Revenue received is 0.070% annually on all assets excluding SDBA. Contracted revenue is 0.036% annually on all assets excluding SDBA.

401(k) Defined Contribution Plan

Fourth Quarter 2022

Total Admin. Cost \$34,548 \$2,693 \$545 \$269 \$17,256 \$16,315 \$9,073 \$4,980 \$932 \$4,914 \$5,312 \$2,723 \$6,707 \$11,098 \$4,846 \$79 \$1,167 \$159 \$2,767 \$360 \$1,881 \$163 \$1,104 \$55 \$10 \$47 \$44 \$0

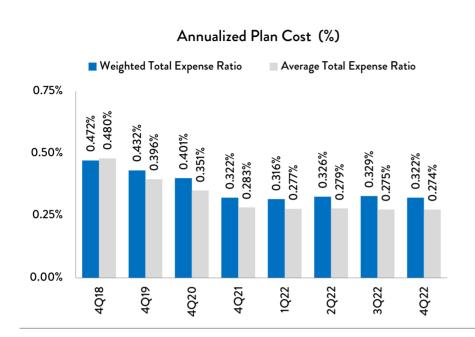
Annualized

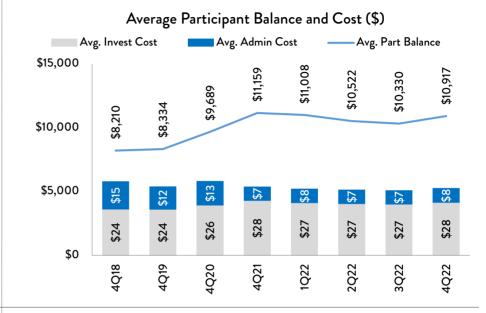
					Est. Total Invest.	Est. Total Admi
Fund	Ticker	Quarter End Assets	Net Expense Ratio	Admin Fee	Cost	Cost
Stabilizer	-	\$49,233,869	0.34%	0.070%	\$167,395	\$34,548
Sterling Capital Total Return Bond R6	STRDX	\$3,837,404	0.35%	0.070%	\$13,431	\$2,693
Fidelity US Bond Index	FXNAX	\$776,950	0.03%	0.070%	\$194	\$545
Fidelity Intermediate Treasury Bond Index	FUAMX	\$383,770	0.03%	0.070%	\$115	\$269
Fidelity 500 Index	FXAIX	\$24,591,144	0.02%	0.070%	\$3,689	\$17,256
Hartford Core Equity R6	HAITX	\$23,250,997	0.36%	0.070%	\$83,704	\$16,315
Fidelity Mid Cap Index	FSMDX	\$12,929,633	0.03%	0.070%	\$3,232	\$9,073
Baron Growth Instl*	BGRIX	\$7,096,636	0.88%	0.070%	\$62,450	\$4,980
Hartford Schroders US Small Cap Opps SDR	SCURX	\$1,328,120	0.95%	0.070%	\$12,617	\$932
Fidelity Small Cap Index	FSSNX	\$7,002,477	0.03%	0.070%	\$1,751	\$4,914
MFS International Diversification R6	MDIZX	\$7,570,701	0.72%	0.070%	\$54,509	\$5,312
Fidelity Total International Index	FTIHX	\$3,881,224	0.06%	0.070%	\$2,329	\$2,723
Conservative Allocation Portfolio	-	\$9,558,261	0.25%	0.070%	\$23,896	\$6,707
Moderate Allocation Portfolio*	-	\$15,816,361	0.16%	0.070%	\$25,306	\$11,098
Aggressive Allocation Portfolio*	-	\$6,906,594	0.10%	0.070%	\$6,907	\$4,846
Vanguard Target Retirement Income	VTINX	\$111,996	0.08%	0.070%	\$90	\$79
Vanguard Target Retirement 2020	VTWNX	\$1,662,923	0.08%	0.070%	\$1,330	\$1,167
Vanguard Target Retirement 2025	VTTVX	\$226,216	0.08%	0.070%	\$181	\$159
Vanguard Target Retirement 2030	VTHRX	\$3,943,564	0.08%	0.070%	\$3,155	\$2,767
Vanguard Target Retirement 2035	VTTHX	\$512,671	0.08%	0.070%	\$410	\$360
Vanguard Target Retirement 2040	VFORX	\$2,681,129	0.08%	0.070%	\$2,145	\$1,881
Vanguard Target Retirement 2045	VTIVX	\$232,341	0.08%	0.070%	\$186	\$163
Vanguard Target Retirement 2050	VFIFX	\$1,572,835	0.08%	0.070%	\$1,258	\$1,104
Vanguard Target Retirement 2055	VFFVX	\$77,936	0.08%	0.070%	\$62	\$55
Vanguard Target Retirement 2060	VTTSX	\$13,937	0.08%	0.070%	\$11	\$10
Vanguard Target Retirement 2065	VLXVX	\$66,897	0.08%	0.070%	\$54	\$47
Vanguard Target Retirement 2070	VSVNX	\$60,879	0.08%	0.072%	\$49	\$44
Self-Directed Brokerage Account	-	\$1,140,386	-	0.000%	-	\$0
TOTAL		\$186,467,853			\$470,455	\$130,046

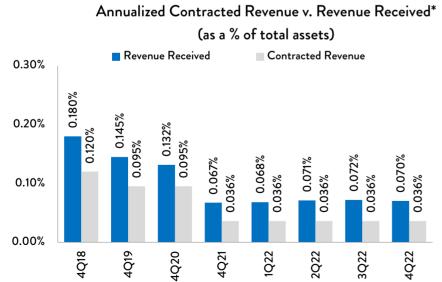
Plan Administration Cost		Quarter	Annualized
	Plan Generated Revenue (est):	\$32,512	\$130,046
	Contracted Revenue (est):	\$16,679	\$66,718
	Net Excess/(Deficit) (est):	\$15,832	\$63,328

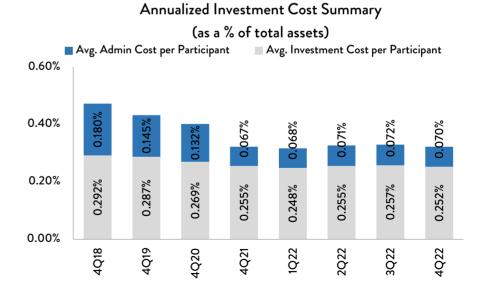
^{*}Revenue derived from funds credited to participant accounts in which they are held. For fee reporting purposes, the credit has been used to offset the reported fund expense ratio.

Retirement Medical Trust Fourth Quarter 2022









^{*}Revenue received is 0.070% annually on all assets excluding SDBA. Contracted revenue is 0.036% annually on all assets excluding SDBA.

Retirement Medical Trust

Fourth Quarter 2022

Annualized

Fund	Ticker	Quarter End Assets	Net Expense Ratio	Admin Fee
Voya Fixed Account**	-	\$86,537,188	0.41%	0.070%
Voya Government Money Market A	VYAXX	\$14,573	0.40%	0.070%
Sterling Capital Total Return Bond R6	STRDX	\$645,917	0.35%	0.070%
Fidelity US Bond Index	FXNAX	\$44,022	0.03%	0.070%
Fidelity Intermediate Treasury Bond Index	FUAMX	\$82,392	0.03%	0.070%
Fidelity 500 Index	FXAIX	\$3,288,499	0.02%	0.070%
Hartford Core Equity R6	HAITX	\$3,379,072	0.36%	0.070%
Fidelity Mid Cap Index	FSMDX	\$2,479,142	0.03%	0.070%
Baron Growth Instl*	BGRIX	\$2,045,004	0.88%	0.070%
Hartford Schroders US Small Cap Opps SDR	SCURX	\$322,107	0.95%	0.070%
Fidelity Small Cap Index	FSSNX	\$1,361,839	0.03%	0.070%
MFS International Diversification R6	MDIZX	\$766,936	0.72%	0.070%
Fidelity Total International Index	FTIHX	\$462,185	0.06%	0.070%
Conservative Allocation Portfolio	-	\$1,982,697	0.25%	0.070%
Moderate Allocation Portfolio*	-	\$3,989,987	0.16%	0.070%
Aggressive Allocation Portfolio*	-	\$5,388,664	0.10%	0.070%
Vanguard Target Retirement Income	VTINX	\$1,452,955	0.08%	0.070%
Vanguard Target Retirement 2020	VTWNX	\$13,977,800	0.08%	0.070%
Vanguard Target Retirement 2025	VTTVX	\$350,420	0.08%	0.070%
Vanguard Target Retirement 2030	VTHRX	\$29,739,240	0.08%	0.070%
Vanguard Target Retirement 2035	VTTHX	\$119,080	0.08%	0.070%
Vanguard Target Retirement 2040	VFORX	\$22,968,888	0.08%	0.070%
Vanguard Target Retirement 2045	VTIVX	\$10,585	0.08%	0.070%
Vanguard Target Retirement 2050	VFIFX	\$7,032,653	0.08%	0.070%
Vanguard Target Retirement 2055	VFFVX	\$22,626	0.08%	0.070%
Vanguard Target Retirement 2060	VTTSX	\$3,241	0.08%	0.070%
Vanguard Target Retirement 2065	VLXVX	\$11,806	0.08%	0.070%
Vanguard Target Retirement 2070	VSVNX	\$0	0.08%	0.070%

Est. Total Invest.	Est. Total Admin.
Cost	Cost
\$354,802	\$60,716
\$58	\$10
\$2,261	\$453
\$11	\$31
\$25	\$58
\$493	\$2,307
\$12,165	\$2,371
\$620	\$1,739
\$17,996	\$1,435
\$3,060	\$226
\$340	\$955
\$5,522	\$538
\$277	\$324
\$4,957	\$1,391
\$6,384	\$2,799
\$5,389	\$3,781
\$1,162	\$1,019
\$11,182	\$9,807
\$280	\$246
\$23,791	\$20,866
\$95	\$84
\$18,375	\$16,115
\$8	\$7
\$5,626	\$4,934
\$18	\$16
\$3	\$2
\$9	\$8
\$0	\$0
\$474 Q11	\$132.240

TOTAL \$188,479,518 \$474,911 \$132,240

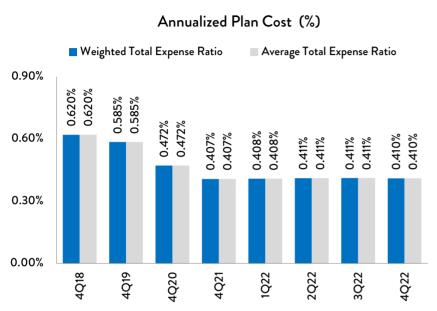
Plan Administration Cost		Quarter	Annualized
	Plan Generated Revenue (est):	\$33,060	\$132,240
	Contracted Revenue (est):	\$16,963	\$67,853
	Net Excess/(Deficit) (est):	\$16,097	\$64,388

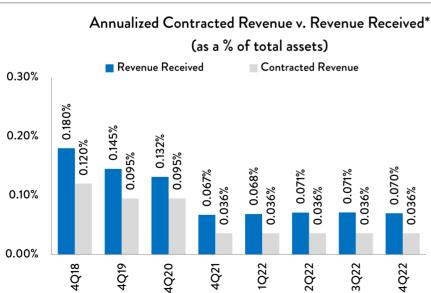
^{*}Revenue derived from funds credited to participant accounts in which they are held. For fee reporting purposes, the credit has been used to offset the reported fund expense ratio.

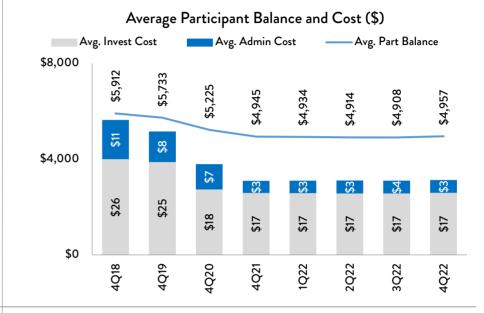
^{**}No explicit expense ratio given for the Voya Fixed Account. An expense ratio of 0.41% is assumed for reporting purposes.

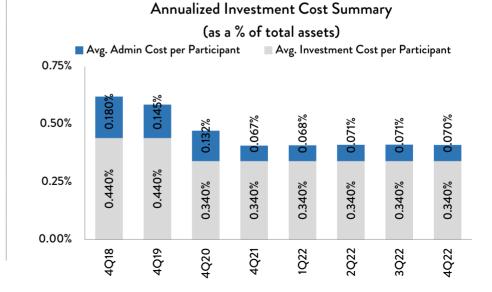
Section 6

Fourth Quarter 2022









PST Deferred Compensation Retirement Plan

PLAN FEE ANALYSIS

Fourth Quarter 2022

Annualized

Fund	Ticker	Quarter End Assets	Net Expense Ratio	Admin Fee
Stabilizer	-	\$47,281,493	0.34%	0.070%
TOTAL		\$47,281,493		_

Est. Total Invest.	Est. Total Admin.
Cost	Cost
\$160,757	\$33,080
\$160.757	\$33,080

Plan Administration Cost		Quarter	Annualized
	Plan Generated Revenue (est):	\$8,270	\$33,080
	Contracted Revenue (est):	\$4,255	\$17,021
	Net Excess/(Deficit) (est):	\$4,015	\$16,059

Section 7

Aggressive Allocation Portfolio

Lifestyle Portfolios are multi-asset type investment options that are intended to be managed in accordance with a plan participant's retirement time horizon, long-term return expectations and overall tolerance for risk of principal loss. Since the asset allocation decision is the most important factor in determining investment returns over time, these types of funds provide three "packaged," diversified investment choices for those seeking assistance in making the asset allocation decision. Lifestyle Portfolios are constructed to provide different long-term investment return and risk characteristics that are determined by their underlying sub-funds. The sub-funds are actively managed U.S. Stock, International Stock and U.S. Bond Funds that are also available as "stand-alone" investment funds.

Category: Lifestyle Asset Class: Asset Allocation

FUND FACTS

Inception Date: October 1, 2004

September 30, 2022: **0.08**% Investment advisory fee for period ended

12b-1 fee: 0.00%

Other expenses: 0.04%

waivers or reductions for period ended September 30, 2022: **0.12%** Total fund annual expenses without

reductions: -0.02% Total waivers, recoupments, and

Net fund annual expenses after waivers or reductions for period ended

Turnover rate: 14%

September 30, 2022: 0.10%

charged under that program additional fees and expenses may be If offered through a retirement program,

Important Information

Fund Company and/or Morningstar category information. Category is interpreted by Voya®using

Strategy section. San Bernardino and detailed within the percentage allocations designated by Lifestyle Portfolio, based upon the underlying investment options within the weighted blend of fees charged by the Investment advisory fee reflects a

Commission. It is only available to participants in the San Bernardino qualified retirement program. Only invest in the Portfolio eligible participants in the plan may the Securities and Exchange investment company, and interests in the Portfolio have not been registered with This Portfolio is not a registered

representative. calling your local Voya expenses for the funds at any time by funds which contain additional information on the charges and prospectuses for the underlying You can obtain copies of free may be Other fees and under your

enrollment material. information is included in the retirement program. More

accompany this Lifestyle Portfolio Each sub-fund description must

Investment Objective

fixed income securities. It is the most aggressive of the three Lifestyle funds in terms of its potential for the greatest investment return as well as the greatest who are able to remain invested for ten equity markets. that are characteristic of investing in with the higher short-term fluctuations or more years, or who are comfortable risk. It is most suitable for participants fifteen percent (15%) are allocated to fund assets are allocated to equities and Eighty-five percent (85%) of the total provide long-term growth of capital with Aggressive Allocation Portfolio is to income as a minor consideration. The investment objective of the

Strategy

51

traded in the United States.
--- 8% in the Fidelity® Mid Cap Index results that correspond to the total return Fund which seeks to provide investment United States companies of stocks of mid-capitalization results that correspond to the total return Fund which seeks to provide investment performance of common stocks publicly results that correspond to the total return which seeks to provide investment income and a competitive total return.
--- 35% in the Fidelity® 500 Index Fund which seeks a high level of current Return Bond Fund investments in the following proportions: combination of active and passive Allocation Portfolio is to invest in a The strategy for the Aggressive --- 5% in the Fidelity® Small Cap Index 20% in the Sterling Capital Total ≱turn Bond Fund - Class R6 Shares

provide investment results that correspond to the total return of foreign developed and emerging stock markets. International Index Fund which seeks to States companies of stocks of small-capitalization United 32% in the Fidelity® Total

Managers, Investment Objectives funds' Investment Advisers, Portfolio detailed information regarding the sub-Each sub-fund description contains more

> description. accompany this Lifestyle Portfolic

Principal Risks

All equity (both U.S. and International) and fixed income investments exhibit funds described above. risk characteristics of the underlying sub-Portfolios are based on the proportionate relate to currency and political uncertainty. The risks of Lifestyle stocks do carry additional risks that for investment return. International that also provide the greatest potential principal is greater with investment funds Generally, the probability of loss of the potential for loss of principal value. certain risk characteristics that include

Product Details	
Name	Baron Growth Instl
Ticker	BGRIX
Expense Ratio	1.040%
Morningstar Category	US Fund Mid-Cap Growth
Benchmark	Russell Mid Cap Growth TR USD
Inception Date	5/29/2009
Longest Tenured Manager	Ronald Baron
Longest Manager Tenure	28.17 Years
Fund Size	\$7,534,881,006

Fund Characteristics	BGRIX	+/- Category
% Assets in Top 10 Holdings	64.13%	38.09%
Average Market Cap (mil)	\$13,198	-\$2,810
P/E Ratio (TTM)	29.06	3.51
P/B Ratio (TTM)	4.12	0.10
Est. Dividend Yield	1.47%	0.53%

Sector Allocations	BGRIX	Category	+/- Category
Materials	0.0%	2.3%	-2.3%
Communication Services	5.9%	2.8%	3.0%
Consumer Discretionary	18.8%	13.1%	5.7%
Consumer Staples	0.0%	2.9%	-2.9%
Healthcare	10.5%	20.2%	-9.7%
Industrials	1.0%	15.1%	-14.1%
Real Estate	12.3%	3.3%	9.0%
Technology	12.5%	26.3%	-13.9%
Energy	0.0%	3.3%	-3.3%
Financial Services	39.0%	10.0%	29.0%
Utilities	0.0%	0.7%	-0.7%
Other	0.0%	0.0%	0.0%



Fund Fact Sheet Data as of 12/31/2022

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• BGRIX	11.93%	-22.40%	-22.40%	7.45%	11.15%	12.33%	Performance	4Q22	3Q22	2Q22	1Q22
Benchmark	6.90%	-26.72%	-26.72%	3.85%	7.64%	11.41%	• BGRIX	11.93%	-1.61%	-18.69%	-13.33%
+/- Benchmark	5.03%	4.32%	4.32%	3.60%	3.51%	0.92%	Benchmark	6.90%	-0.65%	-21.07%	-12.58%
Peer Group Rank	3.03%	14	14	11	7	16	+/- Benchmark	5.03%	-0.96%	2.38%	-0.75%
reel Gloup Kalik	4	14	14	11	,	10	17- Denchinark	3.03%	-0.90%	2.30%	-0.75%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• BGRIX	-22.40%	20.15%	33.05%	40.50%	-2.67%	27.35%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-26.72%	12.73%	35.59%	35.47%	-4.75%	25.27%	• BGRIX	6.56%	3.63%	7.80%	0.94%
+/- Benchmark	4.32%	7.42%	-2.53%	5.03%	2.08%	2.09%	• Benchmark	2.85%	-0.76%	11.07%	-0.57%
Peer Group Rank	14	15	64	8	29	32	+/- Benchmark	3.71%	4.39%	-3.27%	1.50%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• BGRIX	11.15%	9.81%	10.87%	16.93%	22.73%	21.16%	• BGRIX	21.10%	10.95%	27.46%	-22.30%
• Benchmark	7.64%	7.62%	8.88%	15.10%	19.83%	19.27%	• Benchmark	19.02%	9.37%	30.26%	-20.04%
+/- Benchmark	3.51%	2.19%	1.99%	1.82%	2.90%	1.90%	+/- Benchmark	2.08%	1.57%	-2.81%	-2.26%
Peer Group Rank	7	12	15	21	19	27					
							5-Year Quarterly				
Risk Statistics	3,	Year	5 `	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• BGRIX	8.65%	-0.69%	7.03%	21.67%
Alpha	3.70	0.00	3.33	0.00	0.90	0.00	• Benchmark	8.17%	-0.67%	5.40%	19.62%
Beta	1.02	1.00	1.03	1.00	1.01	1.00	+/- Benchmark	0.48%	-0.02%	1.62%	2.05%
Standard Deviation	26.28	24.87	23.37	21.95	18.25	17.25					
Sharpe Ratio	0.37	0.24	0.51	0.38	0.69	0.67	5-Year Quarterly				
Information Ratio	0.54	-	0.60	-	0.17	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	6.46	3.00	9.52	6.30	11.39	10.59	• BGRIX	-18.53%	7.94%	8.01%	2.47%
Upside Capture Ratio	112.85	100.00	112.70	100.00	104.78	100.00	• Benchmark	-15.99%	7.57%	3.16%	2.17%
Downside Capture Ratio	103.09	100.00	103.34	100.00	102.78	100.00	+/- Benchmark	-2.54%	0.36%	4.85%	0.30%

All data and information on this fact sheet is taken from sources believed to be accurate but is not guaranteed to be accurate, complete, or correct.

Baron Growth Instl (USD)

Morningstar Analyst Rating™ Overall Morningstar Rating™ Standard Index **§ Silver**08-02-2022

\$&P 500 TR USD
08-02-2022

524 US Fund Mid-Cap Growth

Category Index
Russell Mid Cap
Growth TR LICE

Morningstar Cat
US Fund Mid-Cap

vestment Style	Investm					
Growth	Growth IR USD	Gro		rowth	Mid-Cap Growth	≦

Performance 01-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	0.94	7.80	3.63	6.56	20.15
2022	-13.33	-18.69	-1.61	11.93	-22.40
2023	I	ı	ı	I	9.16
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-3.11	9.45	11.99	12.54	14.42
Std 12-31-2022	-22.40	I	11.15	12.33	13.78
Total Return	-3.11	9.45	11.99	12.54	14.42
+/- Std Index	5.11	-0.43	2.45	-0.14	I
+/- Cat Index	5.41	2.99	3.73	0.87	1
% Rank Cat	9	18	6	16	
No. in Cat	576	524	492	383	

	Subsidized	Unsubsidized
7-day Yield	I	ı
30-day SEC Yield	1	

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.

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 sold or redeemed, may be worth more or less than their original cost.

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent

1.04	Gross Expense Ratio %
1.04	Net Expense Ratio %
0.00	12b1 Expense %
1.00	Management Fees %
	Fund Expenses
NA	Deferred Load %
NA	Front-End Load %

81.43%			Potential Cap Gains Exp
			12-Month Yield
95.48	6	86.96	R-Squared
1.06	6	1.16	Beta
0.67	Ğ	-0.85	Alpha
Best Fit Index Morningstar US Mid Brd Grt TR USD		Standard Index	MPT Statistics
0.69	0.54	0.44	Sharpe Ratio
12.54	11.99	9.45	Mean
18.32	23.58	26.68	Standard Deviation
10 Yr	5Yr	3 Yr	
+Avg	High	+Avg	Morningstar Return
+Avg	+Avg	+Avg	Morningstar Risk
4⊁	5≯	4 *	Morningstar Rating [™]
383 funds	492 funds	524 funds	!
10 Yr	5Yr	3 Yr	
			Risk and Return Profile

88 88

Below B

몱

737	24	0.94	0.74	16.74	54.06	2012		99
703	19	2.94	6.30	38.69	73.12	2013		95
749	73	-7.24	-9.03	4.66	73.24	2014		98 🔐
733	79	-S.86	-5.44	-4.06	64.31	2015		8 ⊞
644	4	-1.02	-5.65	6.31	60.82	2016		8 📊
617	25	2.09	5.52	27.35	69.55	2017		i i i
605	22	2.08	1.72	-2.67	63.17	2018		99 📊
618	6	5.03	9.02	40.50	85.69	2019		10 🔐
604	52	-2.53	14.66	33.05	108.85	2020		₹
588	20	7.42	-8.55	20.15	121.65	2021		10 🔐
586	-	4.32	-4.29	-22.40	89.49	2022		€ 16 🖫
579	ı	0.44	2.88	9.16	97.69	01-23		i ⊞
								::100k ::80k ::60k ::40k
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)	Investment Style Equity Stocks % Growth of \$10,000 Baron Growth Inst! 40,764 Category Average 31,986 Standard Index 40,260

Portfolio Analysis 12-31-2022	s 12-31-2022			5	2		
Asset Allocation %	Net %	Long %	Short %	Share Chg		At Total Charle O Total Fixed Income	Net Asse
Cash	0.00	0.00	0.00	Since	Amount	41 Total Stocks , U Total Fixed-Income,	,
US Stocks	99.12	99.12	0.00	09-2022		NASOLITE	
Non-US Stocks	0.48	0.48	0.00	1	2 mII	Mouling	10.34
Bonds	0.00	0.00	0.00	①	9 mil	Arch Capital Group Ltd	8.25
Other/Not Clsfd	0.40	0.40	0.00		2 mil	Gartner Inc	7.40
Total	100.00	100.00	0.00		1 <u>m</u> .	FactSet Research Systems Inc	6.95
2					2 mil	Vail Resorts Inc	6.88
Equity Style	Portolio Statistics	Port Rei Avg Index	e Hel	①	8 m.	Iridium Communications Inc	5.85
Value Blend Growth	P/E Ratio TTM			① (5 mil	CoStar Group Inc	5.82
96	P/C Ratio TTM	_		①	3 mil	Choice Hotels International Inc	4.82
PIW			002	①	5 mil	Gaming and Leisure Properties Inc	Inc 4.05
llsm2	\$mil	0.00			1 m.i	Kinsale Capital Group Inc	3.77
				①	3 mil	Bio-Techne Corp	3.54
Fixed-Income Style	Ave Eff Motority				1 mil	Ansys Inc	3.49
Ltd Mod Ext	Avg Eff Duration			①	540,000	IDEXX Laboratories Inc	3.18
цбіі	Ava Wtd Coupon			①	2 mil	Primerica Inc	3.07
beM	Avg Wtd Price			1	930,000	930,000 Morningstar Inc	2.91
мод				Sector Weightings	ightings	Stocks %	% Rel Std Index
Cradit Ouglity Break	down		Bond %	∿ Cyclical	cal	71	70.2 2.35
) 	. Basio	Basic Materials		0.0 0.00
				Cons	Consumer Cyclical		18.8 1.82
> 5				Financial Services	icial Serv		39.0 2.78

	1.01 0.45 0.00	Rel Std Index	Bond %
Purchase Constraints: Incept: Type: Total Assets:	→ Defensive ☐ Consumer Defensive ☐ Healthcare ☐ Utilities	✓ Sensitive □ Communication Services o Energy o Industrials □ Technology	Sector Weightings O Cyclical Basic Materials Consumer Cyclical Financial Services Real Estate
A 05-29-2009 MF \$7,534.88 mil	10.5 0.0 10.5 0.0	19.4 5.9 0.0 1.0 12.5	Stocks % 70.2 0.0 18.8 39.0 12.3
	0.42 0.00 0.71 0.00	0.43 0.75 0.00 0.12 0.53	Rel Std Index 2.35 0.00 1.82 2.78 4.27

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Objective:

Tenure:

28.2 Years Growth

Multiple

Ticker:

BGRIX OSD

US0682787041

Base Currency:

ISIN:

Minimum Initial Purchase:

\$1 mil

Baron Capital Group, Inc.

Greater Europe Greater Asia

Americas

Regional Exposure

Stocks %

99.5 0.5 0.0

Family:

Manager: Operations

Conservative **Allocation Portfolio**

Lifestyle Portfolios are multi-asset type investment options that are intended to be managed in accordance with a plan participant's retirement time horizon, long-term return expectations and overall tolerance for risk of principal loss. Since the asset allocation decision is the most important factor in determining investment returns over time, these types of funds provide three "packaged," diversified investment choices for those seeking assistance in making the asset allocation decision. Lifestyle Portfolios are constructed to provide different long-term investment return and risk characteristics that are determined by their underlying sub-funds. The sub-funds are actively managed U.S. Stock, International Stock and U.S. Bond Funds that are also available as "stand-alone" investment funds.

Asset Class: Asset Allocation Category: Lifestyle

FUND FACTS

Inception Date: October 1, 2004

Investment advisory fee for period ended September 30, 2022: **0.01%**

12b-1 fee: 0.00%

Other expenses: 0.24%

September 30, 2022: 0.25% waivers or reductions for period ended Total fund annual expenses without

reductions: 0.00% Total waivers, recoupments, and

September 30, 2022: 0.25% Net fund annual expenses after waivers or reductions for period ended

Turnover rate: 2%

charged under that program additional fees and expenses may be If offered through a retirement program,

Important Information

Fund Company and/or Morningstar category information. Category is interpreted by Voya® using

This Portfolio is not a registered Strategy section San Bernardino and detailed within the percentage allocations designated by Lifestyle Portfolio, based upon the underlying investment options within the weighted blend of fees charged by the Investment advisory fee reflects a

the Securities and Exchange Commission. It is only available to participants in the San Bernardino qualified retirement program. Only invest in the Portfolio. eligible participants in the plan may Portfolio have not been registered with investment company, and interests in the

retirement program. expenses may be charged under your representative. Other fees and expenses for the funds at any time by calling your local Voya information on the charges and funds which contain additional prospectuses for the underlying You can obtain copies of free More

> enrollment material. information is included in the

Investment Objective

total fund assets are allocated to equities and seventy percent (70%) are allocated to fixed income securities. It is the most provide total returns with an emphasis on income and lower volatility of of their portfolio in equity markets. characteristic of investing a large portion higher short-term fluctuations that are years, or are not comfortable with the need access to their money within five participants who are close to retirement, return, but also has the lowest risk of the Lifestyle Funds. It is most suitable for in terms of its potential for investment conservative of the three Lifestyle Funds principal. Thirty percent (30%) of the Conservative Allocation Portfolio is to The investment objective of the

a higher interest rate from time to time.
The current rate is subject to change, but Value Option where stability of principal is the primary objective. StabilizerSM Strategy
The strategy for the Conservative minimum. will never fall below the guaranteed for the life of the contract, and may credit guarantees a minimum rate of interest investments in the following proportions: combination of active and passive Allocation Portfolio is to invest in a 70% in the San Bernardino Stable

55

- performance of common stocks publicly traded in the United States. results that correspond to the total return which seeks to provide 3% in the Fidelity® Mid Cap Index 13% in the Fidelity® 500 Index Fund investment
- Fund which seeks to provide investment results that correspond to the total return United States companies. of stocks of mid-capitalization results that correspond to the total return Fund which seeks to provide investment 2% in the Fidelity® Small Cap Index
- developed and emerging stock markets, correspond to the total return of foreign provide investment results that International Index Fund which seeks to States companies of stocks of small-capitalization United 12% in the Fidelity® Total

funds' Investment Advisers, Portfo Managers, Investment Objectives detailed information regarding the sub-Each sub-fund description contains more Portfolio

> accompany this Lifestyle Portfolio description. Strategies and Principal Risks, and must

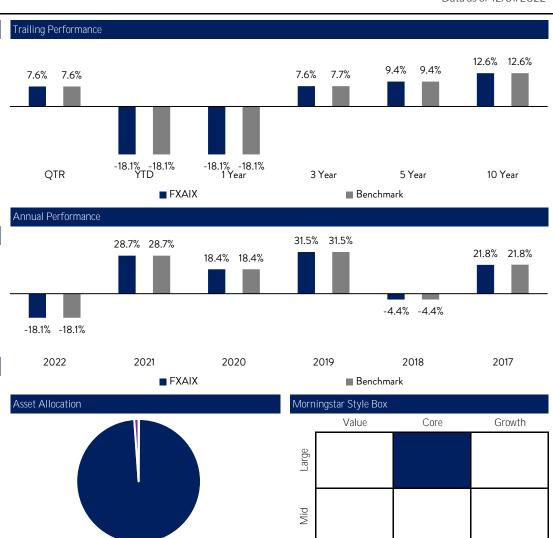
Principal Risks

All equity (both U.S. and International) and fixed income investments exhibit the underlying sub-funds described the proportionate risk characteristics of risks of Lifestyle Portfolios are based on currency and political uncertainty. stocks carry additional risks that relate to for investment return. International that also provide the greatest potential principal is greater with investment funds Generally, the probability of loss of the potential for loss of principal value. certain risk characteristics that include

Product Details	
Name	Fidelity® 500 Index
Ticker	FXAIX
Expense Ratio	0.015%
Morningstar Category	US Fund Large Blend
Benchmark	S&P 500 TR USD
Inception Date	5/4/2011
Longest Tenured Manager	Louis Bottari
Longest Manager Tenure	14.08 Years
Fund Size	\$373,802,517,593

Fund Characteristics	FXAIX	+/- Category
% Assets in Top 10 Holdings	24.33%	-25.32%
Average Market Cap (mil)	\$161,215	-\$49,806
P/E Ratio (TTM)	19.03	0.74
P/B Ratio (TTM)	3.59	-0.55
Est. Dividend Yield	1.93%	-0.01%

Sector Allocations	FXAIX	Category	+/- Category
Materials	2.5%	2.8%	-0.4%
Communication Services	7.3%	7.1%	0.2%
Consumer Discretionary	9.6%	9.8%	-0.3%
Consumer Staples	7.6%	7.4%	0.2%
Healthcare	15.9%	16.0%	-0.1%
Industrials	9.1%	10.4%	-1.4%
Real Estate	2.8%	2.4%	0.4%
Technology	23.0%	22.5%	0.6%
Energy	5.2%	4.4%	0.8%
Financial Services	13.9%	14.3%	-0.4%
Utilities	3.2%	2.8%	0.4%
Other	0.0%	0.0%	0.0%



0.1%

0.0%

0.0%

• US Equity

• Intl Equity

• Other

98.8%

1.1%

0.0%

Small

• Cash

• US Bond

• Intl Bond

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• FXAIX	7.56%	-18.13%	-18.13%	7.65%	9.41%	12.55%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	7.56%	-18.11%	-18.11%	7.66%	9.42%	12.56%	• FXAIX	7.56%	-4.89%	-16.10%	-4.60%
+/- Benchmark	-0.01%	-0.02%	-0.02%	-0.01%	-0.01%	-0.01%	• Benchmark	7.56%	-4.88%	-16.10%	-4.60%
Peer Group Rank	58	49	49	30	21	12	+/- Benchmark	-0.01%	0.00%	0.00%	0.00%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• FXAIX	-18.13%	28.69%	18.40%	31.47%	-4.40%	21.81%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-18.11%	28.71%	18.40%	31.49%	-4.38%	21.83%	• FXAIX	11.02%	0.58%	8.55%	6.18%
+/- Benchmark	-0.02%	-0.01%	0.00%	-0.01%	-0.02%	-0.02%	• Benchmark	11.03%	0.58%	8.55%	6.17%
Peer Group Rank	49	23	37	25	26	34	+/- Benchmark	-0.01%	-0.01%	0.00%	0.00%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• FXAIX	9.41%	9.23%	11.29%	15.98%	18.46%	16.88%	• FXAIX	12.14%	8.94%	20.53%	-19.59%
• Benchmark	9.42%	9.24%	11.31%	15.99%	18.47%	16.90%	• Benchmark	12.15%	8.93%	20.54%	-19.60%
+/- Benchmark	-0.01%	-0.01%	-0.01%	-0.01%	-0.01%	-0.01%	+/- Benchmark	-0.01%	0.01%	-0.01%	0.00%
Peer Group Rank	21	17	16	14	18	21					
							5-Year Quarterly				
Risk Statistics	3	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• FXAIX	9.06%	1.69%	4.30%	13.65%
Alpha	-0.01	0.00	-0.01	0.00	-0.01	0.00	 Benchmark 	9.07%	1.70%	4.30%	13.65%
Beta	1.00	1.00	1.00	1.00	1.00	1.00	+/- Benchmark	-0.01%	0.00%	0.00%	0.00%
Standard Deviation	21.16	21.16	18.69	18.69	14.77	14.77					
Sharpe Ratio	0.41	0.41	0.50	0.50	0.82	0.82	5-Year Quarterly				
Information Ratio	-0.99	-	-1.10	-	-0.64	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	6.80	6.81	8.07	8.08	11.73	11.75	• FXAIX	-13.53%	7.71%	3.43%	-0.77%
Upside Capture Ratio	99.97	100.00	99.97	100.00	99.97	100.00	• Benchmark	-13.52%	7.71%	3.43%	-0.76%
Downside Capture Ratio	100.00	100.00	100.02	100.00	100.02	100.00	+/- Benchmark	-0.01%	0.00%	0.00%	-0.01%

All data and information on this fact sheet is taken from sources believed to be accurate but is not guaranteed to be accurate, complete, or correct.

Fidelity® 500 Index (USD)

Morningstar Analyst Rating™ Overall Morningstar Rating™

★★★

02-16-2022

1,227 US Fund Large Blend

S&P 500 TR USD

Standard Index

Russell 1000 TR

Category Index US Fund Large Blend Morningstar Cat

Performance 01-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	6.18	8.55	0.58	11.02	28.69
2022	-4.60	-16.10	-4.89	7.56	-18.13
2023				1	6.28
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-8.23	9.87	9.53	12.67	12.06
Std 12-31-2022	-18.13	1	9.41	12.55	11.57
Total Return	-8.23	9.87	9.53	12.67	12.06
+/- Std Index	-0.02	-0.01	-0.01	-0.01	
+/- Cat Index	0.32	0.21	0.14	0.16	1
% Rank Cat	54	32	22	=	
No. in Cat	1354	1227	1119	822	

Performance Disclosure
The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield (if applicable) Morningstar metrics. 7-day Yield

Subsidized

Unsubsidized

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than The performance data quoted represents past performance and does not guarantee future results. The investment return and their original cost.

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 202-551-8090 or visit

month, produce out tot out of the state	
www.institutional.fidelity.com.	
Fees and Expenses	
Sales Charges	
Front-End Load %	R
Deferred Load %	R
Fund Expenses	
Management Fees %	0.02
12b1 Expense %	N N
Net Expense Ratio %	0.02
Gross Expense Ratio %	0.02
Rick and Return Profile	

Gross Expense Ratio %			0.02
Risk and Return Profile			
	3 Yr	5 Yr	10 Yr
	1,227 funds 1,119 funds	,119 funds	822 funds
Morningstar Rating™	4★	4*	4★
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	+Avg	+Avg	+Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	21.39	18.72	14.81
Mean	9.87	9.53	12.67
Sharpe Ratio	0.50	0.51	0.83
MPT Statistics	Standard Index		Best Fit Index
		S&P E	S&P 500 TR USD
Alpha	-0.01	01	-0.01
Beta	1.00	00	1.00
R-Squared	100.00	00	100.00
12-Month Yield			
Potential Cap Gains Exp			48.33%

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1686	딿	-0.43	-0.01	15.99	50.49	2012		}	99
1559	41	-0.74	-0.01	32.37	65.49	2013			99
1568	≅	0.42	-0.03	13.66	72.85	2014			99
1606	20	0.47	0.00	1.38	71.80	2015			99
1409	26	-0.09	0.01	11.97	78.35	2016		1	100
1396	28	0.12	-0.02	21.81	93.45	2017			99
1402	25	0.38	-0.02	-4.40	87.10	2018		\	100
1387	23	0.05	-0.01	31.47	112.02	2019		}	99
1363	37	-2.57	0.00	18.40	130.17	2020		₹	100
1382	23	2.24	-0.01	28.69	165.32	2021		1	100
1358	2	1.00	-0.02	-18.13	133.12	2022		{	100
1432	Ι	-0.42	0.00	6.28	141.48	01-23			
								- 100k - 80k - 60k - 40k - 10k - 10k	
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)	Growth of \$10,000 Fidelity® 500 Index 40,210 Category Average 33,448 Standard Index 40,260	Investment Style Equity Stocks %

Credit Quality Breakdown — Bond % Bosic Materials AAA AA AA Consumer Cyclical	Sector Weightings Oh Cyclical		10 mil 58 mil 29 mil 45 mil 32 mil	100.00 100.16 0.16 ⊕ 20 mil ⊕ 65 mil	tocks 1.13 1.13 0.00 ⊕ 164 mil 0.00 0.00 0.00 ⊕ 82 mil 0.15fd 0.00 0.00 0.00 ⊕ 97 mil	Long % Short % Share Chg Share 0.12 0.16 since Amount 98 91 0.00 11-2022	Portfolio Analysis 12-31-2022
				100.16	1.13 0.00 0.00		
3ond %			Rel Cat 1.04 0.95 0.87 0.76	0.16	0.00	0.16	
Basic	Sector We	$\oplus \oplus \oplus \oplus \odot$	• • • • •	(+)	$\oplus \oplus \oplus$	Share Chg since 11-2022	
cal Materia	ightings	26 mil 18 mil 29 mil 11 mil	10 mil 58 mil 59 mil 29 mil 45 mil 32 mil	20 mil 65 mil	164 mil 82 mil 97 mil	Share Amount	
als		Procter & Gamble Co Visa Inc Class A Tesla Inc The Home Depot Inc	UnitedHealth Group Inc Alphabet Inc Class C Johnson & Johnson Exxon Mobil Corp JPMorgan Chase & Co	Berkshire Hathaway Inc Class B Alphabet Inc Class A	Apple Inc Microsoft Corp Amazon.com Inc	Holdings: 503 Total Stocks, 0 Total Fixed-Income, 2% Turnover Ratio	
28.7 2.5	Stocks % 28.7	J) Co	Inc Class B		Fixed-Income,	
	Rel Std					Net A	

) NIX 3159117502	98.9 1.1 0.0		
	1.00 1.02 0.82		Bond %
Purchase Constraints: Incept: Type: Total Assets:	→ Defensive ☐ Consumer Defensive ☐ Healthcare ☐ Utilities	 Sensitive Communication Services Energy Industrials Technology 	• Cyclical ■ Basic Materials □ Consumer Cyclical □ Financial Services □ Real Estate
A 05-04-2011 MF \$373,802.53 mil	26.7 7.6 15.9 3.2	44.6 7.3 5.2 9.1 23.0	28.7 2.5 9.6 13.9 2.8
	1.08 1.07 1.08 1.08	0.98 0.93 1.03 1.03 0.97	0.96 0.98 0.92 0.99 0.99

Greater Europe Greater Asia

Americas Regional Exposure

Sto

Objective: Manager: Family:

Growth and Income 14.1 Years Multiple Fidelity Investments

Ticker:

Base Currency:

ISIN:

Minimum Initial Purchase:

US3 \$0 FXA USD

Tenure:

6.03 5.55 2.32 1.73 1.64

1.54 1.46 1.43 1.41 1.22 1.13 1.12 1.06 1.03

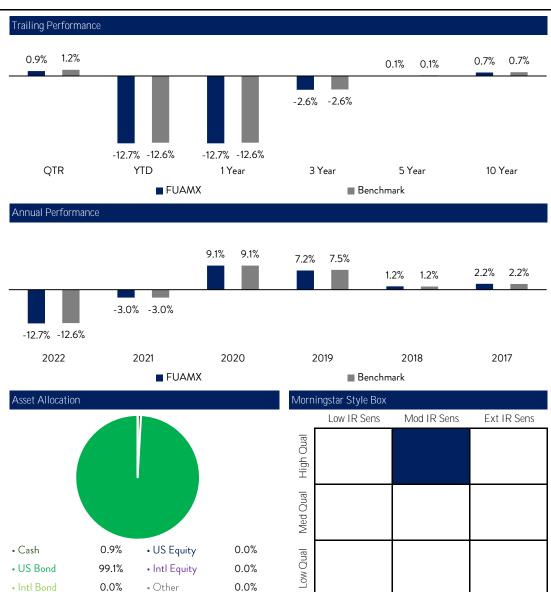
Index

Fidelity® Interm Trs Bd Index FUAMX

Product Details	
Name	Fidelity® Interm Trs Bd Index
Ticker	FUAMX
Expense Ratio	0.030%
Morningstar Category	US Fund Intermediate Government
Benchmark	Bloomberg US Treasury 5-10 Yr TR USD
Inception Date	10/4/2017
Longest Tenured Manager	Brandon C Bettencourt
Longest Manager Tenure	8.75 Years
Fund Size	\$4,830,989,778

Fund Characteristics	FUAMX	+/- Category
% Assets in Top 10 Holdings	38.14%	-26.45%
Average Eff Duration	6.24	0.88
Average Eff Maturity	-	-
Average Credit Quality	AAA	AA (Cat Avg.)
Average Coupon	1.76%	-0.69%

Sector Allocations	FUAMX	Category	+/- Category
Government	99.1%	58.5%	40.6%
Municipal	0.0%	0.0%	0.0%
Bank Loan	0.0%	0.0%	0.0%
Convertible	0.0%	0.0%	0.0%
Corporate Bond	0.0%	0.6%	-0.6%
Preferred Stock	0.0%	0.0%	0.0%
Agency MBS	0.0%	30.9%	-30.9%
Non-Agency RMBS	0.0%	0.1%	-0.1%
Commercial MBS	0.0%	0.3%	-0.3%
Asset-Backed	0.0%	1.3%	-1.3%
Cash & Equivalents	0.9%	8.1%	-7.2%
Other	0.0%	0.1%	-0.1%



Fidelity® Interm Trs Bd Index FUAMX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• FUAMX	0.91%	-12.72%	-12.72%	-2.61%	0.06%	0.65%	Performance	4Q22	3Q22	2Q22	1022
• Benchmark	1.18%	-12.58%	-12.58%	-2.56%	0.13%	0.73%	• FUAMX	0.91%	-4.79%	-3.38%	-5.97%
+/- Benchmark	-0.27%	-0.14%	-0.14%	-0.06%	-0.08%	-0.08%	 Benchmark 	1.18%	-4.86%	-3.41%	-5.99%
Peer Group Rank	70	78	78	34	20	25	+/- Benchmark	-0.27%	0.07%	0.02%	0.01%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• FUAMX	-12.72%	-3.00%	9.10%	7.25%	1.23%	2.20%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-12.58%	-2.97%	9.09%	7.48%	1.22%	2.17%	• FUAMX	-0.23%	-0.14%	1.84%	-4.40%
+/- Benchmark	-0.14%	-0.03%	0.01%	-0.23%	0.01%	0.03%	• Benchmark	-0.23%	-0.06%	1.84%	-4.45%
Peer Group Rank	78	93	7	1	3	16	+/- Benchmark	0.00%	-0.07%	-0.01%	0.05%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1020
• FUAMX	0.06%	-0.21%	0.85%	1.79%	3.26%	2.30%	• FUAMX	-0.81%	0.26%	0.74%	8.91%
• Benchmark	0.13%	-0.19%	0.91%	1.86%	3.30%	2.39%	• Benchmark	-0.80%	0.35%	0.86%	8.66%
+/- Benchmark	-0.08%	-0.03%	-0.05%	-0.06%	-0.04%	-0.08%	+/- Benchmark	0.00%	-0.09%	-0.12%	0.25%
Peer Group Rank	20	19	16	12	4	21					
							5-Year Quarterly				
Risk Statistics	3`	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• FUAMX	-0.91%	2.16%	3.46%	2.40%
Alpha	-0.04	0.00	-0.07	0.00	-0.07	0.00	 Benchmark 	-0.76%	2.12%	3.53%	2.44%
Beta	1.01	1.00	1.00	1.00	1.02	1.00	+/- Benchmark	-0.15%	0.04%	-0.06%	-0.04%
Standard Deviation	6.28	6.24	5.66	5.63	5.07	4.98					
Sharpe Ratio	-0.52	-0.52	-0.20	-0.19	-0.01	0.01	5-Year Quarterly				
Information Ratio	-0.18	-	-0.27	-	-0.23	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	-3.45	-3.41	-1.28	-1.21	-0.16	-0.09	• FUAMX	3.49%	-0.50%	-0.13%	-1.56%
Upside Capture Ratio	100.63	100.00	99.95	100.00	101.06	100.00	• Benchmark	3.40%	-0.53%	-0.08%	-1.51%
Downside Capture Ratio	101.07	100.00	100.98	100.00	102.39	100.00	+/- Benchmark	0.09%	0.03%	-0.06%	-0.04%

All data and information on this fact sheet is taken from sources believed to be accurate but is not guaranteed to be accurate, complete, or correct.

Fidelity® Interm Trs Bd index (USD)

Performance UI-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	-4.40	1.84	-0.14	-0.23	-3.00
2022	-5.97	.ა .38	-4.79	0.91	-12.72
2023	I	ı	I	I	2.87
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-8.43	-2.59	0.99	I	0.50
Std 12-31-2022	-12.72		0.06	I	-0.03
Total Return	-8.43	-2.59	0.99	1.04	0.50
+/- Std Index	-0.07	-0.24	0.13	-0.39	
+/- Cat Index	0.00	-0.04	0.29	0.12	
% Rank Cat	73	88	12	14	
No. in Cat	235	222	214	176	

Performance Disclosure
The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield 7-day Yield Subsidized Unsubsidized

> -0.81 3.41

1.39

-2.10 -4.70 -2.67

1.50 0.45 6.41 2012

2013

2014

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and

(if applicable) Morningstar metrics.

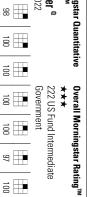
Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent

Sales Charges	Fees and Expenses	www.institutional.fidelity.com.	month-end, please call 800-544-8544 or visit	quotou noroni. i oi pononi
	ies	lity.com.	800-544-8544 or visit	quotou moroni. I or portormante data carroni to the most recent

0.03	Gross Expense Ratio %
NA NA	12b1 Expense %
0.03	Management Fees %
	Fund Expenses
NA NA	Front-End Load % Deferred Load %

Risk and Return Profile			
	3 Yr 222 funds	5 Yr 214 funds	10 Yr
Morningstar Rating™	2★	4★	4☆
Morningstar Risk	High	High	High
Morningstar Return	Avg	+Avg	+Avg
	3 Yr	5Yr	10 Yr
Standard Deviation	6.29	5.74	5.13
Mean	-2.59	0.99	1.04
Sharpe Ratio	-0.54	-0.04	0.06
MPT Statistics	Standard Index		Best Fit Index Bloomberg US
		Governme	Government TR USD
Alpha	-0.47		0.44
Beta	0.93	ස	1.13
R-Squared	78.50	50	96.39
12-Month Yield			
Potential Cap Gains Exp			-2.58%

100		
100	Morningst Rating™ Silver 12-31-2022	and a second
98	ngstar O M Per O 022	
100	Morningstar Quantitative Rating™ Silver ^Q 12-31-2022	
100	ive	
→ □□	222 Gov	1



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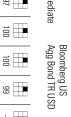
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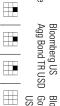
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Government TR Bloomberg US Category Index

Fixed-Income Bond % US Fund Intermediate Government Morningstar Cat

Growth of \$10,000 11,350 Fidelity® Interm Trs Bd Index

4

6 8 8 10 10 10

Category Average 10,809 Standard Index

· 20k

11,932

2

		0.81	1.12	1.67	1	2015		
	1	-0.08	-1.68	0.97	1	2016		
		-0.10	-1.34	2.20	10.67	2017		
235	9	0.35	1.22	1.23	10.56	2018		
232	_	0.42	-1.47	7.25	11.08	2019		
234	4	1.16	1.60	9.10	11.72	2020		
241	ස	-0.73	-1.46	-3.00	11.15	2021		
235	84	-0.40	0.29		9.58	2022		
240		0.39	-0.21	2.87	9.84	01-23		***************************************
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)	

Asset Allocation %		\$	Chg	Holdings : O Total Stocks 62 Total Fixed-Income
Cash LIS Stocks	0.89		since Amount 11-2022	U Total Stocks , 62 Total Fixed-Income, 54% Turnover Ratio
Non-US Stocks	0.00	0.00	⊕ 254 mil	United States Treasury Notes 1.875%
Ronds	99 11		⊕ 261 mil	United States Treasury Notes 0.625%
Other/Not Clsfd	0.00			United States Treasury Notes 1.75%
רַהָּי	100 00			United States Treasury Notes 1.625%
	100.00		⊕ 212 mil	United States Treasury Notes 0.875%
Equity Style	Portfolio Statistics	Port Rel Rel Avg Index Cat	181 mil	United States Treasury Notes 2.875%
value bield Growin	P/E Ratio TTM		202 mil	United States Treasury Notes 1.375%
əßı	P/C Ratio TTM	1	192 mil	United States Treasury Notes 1.125%
ÞiM	P/B Ratio TTM		⊕ 169 mil	United States Treasury Notes 2.75%
Small	\$mil		163 mil	United States Treasury Notes 2.875%
			⊕ 179 mil	United States Treasury Notes 1.25%
Fixed-Income Style	Ava Eff Motority			United States Treasury Notes 2.375%
Ltd Mod Ext	Avg Eff Duration	6.24	157 mil	United States Treasury Notes 1.5%
V 4	Avg Wtd Coupon		154 mil	United States Treasury Notes 1.125%
ра	AVG WIG Price	87.14	1	
мод			Sector Weightings	Stocks %
radit Ouglity Brast	12-21-2022	Bond %	∿ Cyclical	I
	KUUWII 12-31-2022	100.00	Basic Materials	ls –
A }		0.00	Consumer Cyclical	lical –
Δ.		0.00	Financial Services	ices —
BBB		0.00	Real Estate	1
BB		0.00	✓ Sensitive	1
w		0.00	Communication Services	n Services —
Below B		0.00	Energy	
NR		0.00	ndustrials	
Regional Evnosure		Ral Std Index	Technology	1
negional Exposure	70 34304S	liei ota ilidex	→ Defensive	1
Americas	Stocks %		Consumer Defensive	
	Stocks %	1	Hool+hooro	Pneive —
Greater Europe	Stocks %			ensive —

							Rel Std Index	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	Rond %		
Type: Total Assets:	Incept:	Purchase Constraints:	✓ Utilities	♣ Healthcare	Consumer Defensive	→ Defensive	Technology	Industrials	♠ Energy	■ Communication Services	∨ Sensitive	Real Estate	Financial Services	Consumer Cyclical	Basic Materials	Դ Cyclical	Sector Weightings	
MF \$4,830.99 mil	10-04-2017	Þ		1	1	I		1	1	I	I	1	1	1	I	I	Stocks %	
				ı	1	ı		ı	ı	ı	ı	1	ı	ı	1	1	Rel Std Inde	

Objective:	Tenure:	Manager:	Family:
Government Bond - Treasury	8.8 Years	Multiple	Fidelity Investments
Minimu	ISIN:	Ticker:	Base C

ise Currency:	USD
cker:	FUAMX
Z	US31635
inimum Initial Purchase:	\$0

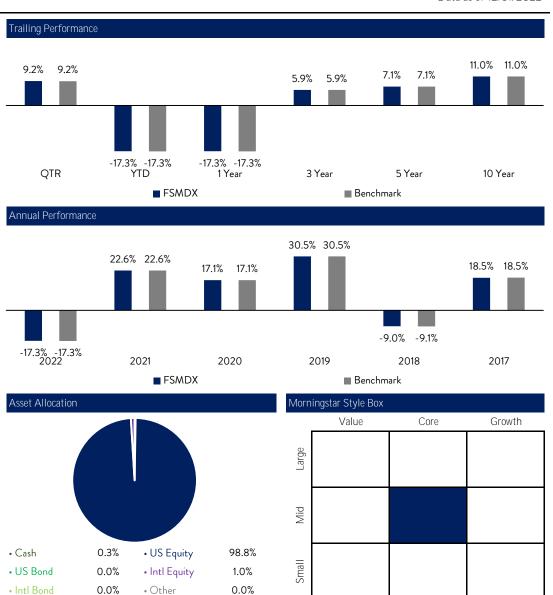
Total Ass	\$0	se:
Type:	US31635V2575	
Incept:	FUAMX	
Purchase	USD	

Fidelity® Mid Cap Index FSMDX

Product Details	
Name	Fidelity® Mid Cap Index
Ticker	FSMDX
Expense Ratio	0.025%
Morningstar Category	US Fund Mid-Cap Blend
Benchmark	Russell Mid Cap TR USD
Inception Date	9/8/2011
Longest Tenured Manager	Louis Bottari
Longest Manager Tenure	11.42 Years
Fund Size	\$26,896,381,431

Fund Characteristics	FSMDX	+/- Category
% Assets in Top 10 Holdings	4.91%	-11.35%
Average Market Cap (mil)	\$17,141	\$7,509
P/E Ratio (TTM)	16.07	1.77
P/B Ratio (TTM)	2.61	0.21
Est. Dividend Yield	1.89%	0.27%

Sector Allocations	FSMDX	Category	+/- Category
Materials	5.0%	5.4%	-0.4%
Communication Services	3.3%	2.7%	0.6%
Consumer Discretionary	12.5%	13.3%	-0.8%
Consumer Staples	4.0%	4.6%	-0.6%
Healthcare	10.9%	11.0%	0.0%
Industrials	15.4%	17.0%	-1.6%
Real Estate	8.1%	7.0%	1.1%
Technology	15.8%	15.0%	0.7%
Energy	5.4%	5.5%	-0.1%
Financial Services	13.6%	14.7%	-1.1%
Utilities	6.0%	3.8%	2.2%
Other	0.0%	0.0%	0.0%



Fidelity® Mid Cap Index FSMDX

-FSMDX 9.21% -17.28% -17.28% 5.89% 7.10% 10.95% Performance 4.022 3.022 10.22 10.22 1.022	Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
- Benchmark 9,18% -17,32% -17,32% 5,88% 7,10% 10,96% +FSMDX 9,21% -3,42% -16,85% -5,69% +FSMDX 9,00% -0,00%	<u> </u>							-	4022	3022	2022	1022
+/- Benchmark												
Peer Group Rank 52 68 68 53 30 15 +/- Benchmark 0.03% 0.02% 0.00% -0.01%												
Annual Performance 2022 2021 2020 2019 2018 2017 - FSMDX												
+FSMDX	'											
*Benchmark	Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
+/- Benchmark Peer Group Rank Beer Group Rank	• FSMDX	-17.28%	22.56%	17.11%	30.51%	-9.05%	18.47%	Performance	4Q21	3Q21	2Q21	1Q21
Peer Group Rank 68	• Benchmark	-17.32%	22.58%	17.10%	30.54%	-9.06%	18.52%	• FSMDX	6.44%	-0.93%	7.47%	8.15%
Note	+/- Benchmark	0.03%	-0.02%	0.01%	-0.03%	0.01%	-0.05%	• Benchmark	6.44%	-0.93%	7.50%	8.14%
Rolling 5-Year Performance 12/20/22 09/20/22 06/20/22 03/20/22 12/20/21 09/20/21 Performance 40/20 30/20 20/20 10/20/20	Peer Group Rank	68	61	27	27	31	30	+/- Benchmark	0.00%	0.00%	-0.03%	0.01%
Rolling 5-Year Performance 12/20/22 09/20/22 06/20/22 03/20/22 12/20/21 09/20/21 Performance 40/20 30/20 20/20 10/20/20												
+FSMDX 7.10% 6.48% 7.95% 12.61% 15.08% 14.37% +FSMDX 19.89% 7.49% 24.55% -27.04% +Benchmark 7.10% 6.48% 7.96% 12.62% 15.10% 14.39% +Benchmark 19.91% 7.46% 24.61% -27.07% +/- Benchmark 0.00% 0.00% -0.01% -0.01% -0.02% -0.02% +/- Benchmark -0.02% 0.03% -0.06% 0.03% +/- Benchmark -0.02% 0.03% -0.06% 0.03% +/- Benchmark -0.02% 0.03% -0.06% 0.00% -0.06% 0.00% 0.00% -0.06% 0.00% 0.00% -0.06% 0.00%		01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
+ Benchmark 7.10% 6.48% 7.96% 12.62% 15.10% 14.39% + Benchmark 19.91% 7.46% 24.61% -27.07% 14.7 Benchmark 0.00% 0.00% 0.00% 0.01% 0.01% 0.01% 0.02% 0.02% 0.02% 0.03% 0.03% 0.00% 0.03% 0.00% 0.03% 0.00% 0.03% 0.00% 0.03% 0.00% 0	Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
+/- Benchmark 0.00% 0.00% -0.01% -0.01% -0.02% -0.02% +/- Benchmark -0.02% 0.03% -0.06% 0.03% Peer Group Rank 30 26 29 19 20 23 Risk Statistics 3 yes 5 yes 5 yes 10 yes 5 yes	• FSMDX	7.10%	6.48%	7.95%	12.61%	15.08%	14.37%	• FSMDX	19.89%	7.49%	24.55%	-27.04%
Peer Group Rank 30 26 29 19 20 23 5-Year Quarterly 5-Year Quarterly 7-Year Quarterly Performance 4Q19 3Q19 2Q19 1Q19	• Benchmark	7.10%	6.48%	7.96%	12.62%	15.10%	14.39%	 Benchmark 	19.91%	7.46%	24.61%	-27.07%
S-Year Quarterly Risk Statistics 3 Year 5 Year 10 Year Performance 4019 3019 2019 1019 Alpha 0.01 0.00 0.00 0.00 0.00 0.00 0.00 8enchmark 7.06% 0.44% 4.13% 16.54% Beta 1.00 1.00 1.00 1.00 1.00 1.00 +/- Benchmark 0.00% -0.04% 0.01% 0.00% Standard Deviation 23.94 23.95 20.91 20.92 16.46 16.47 5-Year Quarterly Sharpe Ratio 0.32 0.32 0.37 0.37 0.67 5-Year Quarterly 4018 3018 2018 1018	+/- Benchmark	0.00%	0.00%	-0.01%	-0.01%	-0.02%	-0.02%	+/- Benchmark	-0.02%	0.03%	-0.06%	0.03%
Risk Statistics 3 Yer 5 Yer 10 Yer Performance 4Q19 3Q19 2Q19 1Q19 Alpha Manager Benchmark Manager Benchmark Manager Benchmark -FSMDX 7.06% 0.44% 4.14% 16.53% Alpha 0.01 0.00 0.00 0.00 0.00 Benchmark 7.06% 0.48% 4.13% 16.54% Beta 1.00 1.00 1.00 1.00 1.00 +/- Benchmark 0.00% -0.04% 0.01% 0.00% Standard Deviation 23.94 23.95 20.91 20.92 16.46 16.47 16.47 16.46 16.47 5-Year Quarterly 10.00 1.00<	Peer Group Rank	30	26	29	19	20	23					
Manager Benchmark Manager Benchmark Manager Benchmark •FSMDX 7.06% 0.44% 4.14% 16.53% Alpha 0.01 0.00 0.00 0.00 0.00 •Benchmark 7.06% 0.48% 4.13% 16.54% Beta 1.00 1.00 1.00 1.00 1.00 +/- Benchmark 0.00% -0.04% 0.01% 0.00% Standard Deviation 23.94 23.95 20.91 20.92 16.46 16.47 16.47 16.46 16.47 16.46 16.47 16.46 16.47 16.46 16.47 16.46 16.47 16.46 16.47 16.46 16.47 16.46 16.46 16.47 16.46 16.46 16.47 16.46 16.46 16.46 16.46 16.46 16.46 16.47 16.46 16.46 16.46 16.46 16.46 16.46 16.46 16.46 16.46 16.46 16.46 16.46 16.46 16.46 16.46 16.46 <								5-Year Quarterly				
Alpha 0.01 0.00 0.00 0.00 0.00 0.00 +Benchmark 7.06% 0.48% 4.13% 16.54% Beta 1.00 1.00 1.00 1.00 1.00 1.00 0.00% -0.04% 0.01% 0.00% Standard Deviation 23.94 23.95 20.91 20.92 16.46 16.47	Risk Statistics	3 `	Year	5 Year		10 Year		Performance	4Q19	3Q19	2Q19	1Q19
Beta 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 +/- Benchmark 0.00% -0.04% 0.01% 0.00% Standard Deviation 23.94 23.95 20.91 20.92 16.46 16.47		Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• FSMDX	7.06%	0.44%	4.14%	16.53%
Standard Deviation 23.94 23.95 20.91 20.92 16.46 16.47 Sharpe Ratio 0.32 0.32 0.37 0.37 0.67 0.67 5-Year Quarterly Information Ratio 0.17 - 0.04 - -0.07 - Performance 4Q18 3Q18 2Q18 1Q18	Alpha	0.01	0.00	0.00	0.00	0.00	0.00	 Benchmark 	7.06%	0.48%	4.13%	16.54%
Sharpe Ratio 0.32 0.32 0.37 0.37 0.67 0.67 5-Year Quarterly Information Ratio 0.17 - 0.04 - -0.07 - Performance 4Q18 3Q18 2Q18 1Q18	Beta	1.00	1.00	1.00	1.00	1.00	1.00	+/- Benchmark	0.00%	-0.04%	0.01%	0.00%
Information Ratio 0.17 - 0.040.07 - Performance 4Q18 3Q18 2Q18 1Q18	Standard Deviation	23.94	23.95	20.91	20.92	16.46	16.47					
	Sharpe Ratio	0.32	0.32	0.37	0.37	0.67	0.67	5-Year Quarterly				
	Information Ratio	0.17	-	0.04	-	-0.07	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio 5.04 5.03 5.76 5.75 10.15 10.14 • FSMDX -15.32% 4.97% 2.80% -0.48%	Treynor Ratio	5.04	5.03	5.76	5.75	10.15	10.14	• FSMDX	-15.32%	4.97%	2.80%	-0.48%
Upside Capture Ratio 99.91 100.00 99.91 100.00 99.88 100.00 • Benchmark -15.37% 5.00% 2.82% -0.46%	Upside Capture Ratio	99.91	100.00	99.91	100.00	99.88	100.00	• Benchmark	-15.37%	5.00%	2.82%	-0.46%
Downside Capture Ratio 99.87 100.00 99.88 100.00 99.84 100.00 +/- Benchmark 0.06% -0.02% -0.02% -0.02%	Downside Capture Ratio	99.87	100.00	99.88	100.00	99.84	100.00	+/- Benchmark	0.06%	-0.02%	-0.02%	-0.02%

All data and information on this fact sheet is taken from sources believed to be accurate but is not guaranteed to be accurate, complete, or correct.

(USD) Fidelity® Mid Cap Index

Performance 01-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Otr	Total %
2021	8.15	7.47	-0.93	6.44	22.56
2022	-5.69	-16.85	-3.42	9.21	-17.28
2023			1		8.29
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-3.29	9.03	8.03	11.10	12.29
Std 12-31-2022	-17.28	I	7.10	10.95	11.60
Total Return	-3.29	9.03	8.03	11.10	12.29
+/- Std Index	4.93	-0.85	-1.51	-1.58	
+/- Cat Index	0.04	0.01	0.01	-0.01	
% Rank Cat	72	ස	32	18	
No. in Cat	415	381	353	227	

Performance Disclosure
The Overall Marningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield

(if applicable) Morningstar metrics.

7-day Yield

Subsidized

Unsubsidized

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 800-544-8544 or visit

Management Fees % Fund Expenses Deferred Load % Front-End Load % Sales Charges www.institutional.fidelity.com Fees and Expenses 0.03 NA ž ĸ

16.53%			Potential Cap Gains Exp
			12-Month Yield
100.00	60	92.46	R-Squared
1.00	9	1.09	Beta
0.01	7	-1.07	Alpha
Best Fit Index Russell Mid Cap TR USD		Standard Index	MPT Statistics
1 0.67	0.41	0.44	Sharpe Ratio
3 11.10	8.03	9.03	Mean
4 16.51	21.14	24.32	Standard Deviation
rr 10 Yr	5 Yr	3 Yr	
g +Avg	+Avg	Avg	Morningstar Return
g Avg	Avg	Avg	Morningstar Risk
* 4 *	3 ★	3 ★	Morningstar Rating [™]
ds 227 funds	353 funds	381 funds	!
ír 10 Yr	5Yr	3 Yr	
			Risk and Return Profile
0.03			Gross Expense Ratio %
0.03			Net Expense Ratio %
NA			12b1 Expense %

412	41	1.21	17.22	11.96	2012			}				99			
399), ,	2.39	34.78	15.83	2013			1				99		Rating TM S Gold ^Q 12-31-2022	Mornin
369	7	-0.57	13.11	17.45	2014			1				98		d o 022	Morningstar Quantitative
432	27	3.83	-2.44	16.32	2015			4				99			uantitat
427	л :C	1.90	13.86	18.17	2016			S	\			99			
443	2/	-3.36	18.47	20.98	2017							100		**** 381 US	0verall
464	20.01	-4.67	-9.05	18.63	2018							98		Fund Mi	Mornin
404	1 c	-0.98	30.51	23.63	2019				}			99		★★★★ 381 US Fund Mid-Cap Blend	Overall Morningstar Rating™ Standard Index
407	21	-1.29	17.11	27.01	2020			,	K	ζ.		100		end	ting™
391	67.02	-6.14		31.99	2021							100		S&P 500	Standar
405	76	0.83	-17.28	25.92	2022				*			100		S&P 500 TR USD	d Index
432	c.	2.01	8.29	28.07	01-23		44	106	20k	60k	80k	100k			Category Index
No. of Funds in Cat	% Bank Cat	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)		Standard Index 40,260	— Category Average 30,329	Fidelity® Mid Cap Index 35,891	Growth of \$10,000	Stocks %	Investment Style	Russell Mid Cap TR US Fund Mid-Cap USD Blend	Index Morningstar Cat

Rel Std Index	Stocks %	Sector Weightings	Sector				мод
0.42	2 mil Realty Income Corp	2 mil	•			Avg Wtd Price	Med
0.43	Hess Corp	738,684	⊕			Avg Wtd Coupon	чбін
0.43	Devon Energy Corp	2 mil	①			Avg Eff Duration	Ltd Mod Ext
0.43	Williams Companies Inc	3 mil	⊕			Ava Eff Maturity	Fixed-Income Style
0.45	Corteva Inc	2 mil	①				
0.45	Motorola Solutions Inc	431,940	⊕	1./0	0.10	\$mil	llsm2
0.47	DexCom Inc	1 mil	①	0 1 70	171/1 0.10		biM
0.47	Cadence Design Systems Inc	715,691	⊕			P/C Ratio I IM	ab ab
0.47	Agilent Technologies Inc	776,022	1			P/E Ratio TTM	ùeη
0.47	Aflac Inc	2 mil	①		Avg Index	i ditiono dianono	Value Blend Growth
			(PI RAI	Port Rel	Portfolio Statistics	Fauity Style
0.48	Amphenol Corp Class A	2 mil	Ð				- Car
0.50	AutoZone Inc	49,725	①	0 19	100 19	100 00	Total
0.52	Synopsys Inc	399,978	⊕	0.00	0.00	0.00	Other/Not Clsfd
0.52	Phillips 66	1 mil	①	0.00	0.00	0.00	Bonds
U.56	U Relly Automotive Inc		Œ	0.00	0.96	0.96	Non-US Stocks
2	iz % fullower hauto	200) 1-2022	0.00	98.97	98.97	US Stocks
%	819 Turnovas Basic	Amount	since	0.19	0.26	0.07	Cash
Net Assets	Holdings:	Share	Share Chg	Short %	Long %	Net %	Asset Allocation %
						s 12-31-2022	Portfolio Analysis 12-31-2022

I	2 mil Realty Income Corp		0.42
	Sector Weightings	Stocks %	Rel Std Index
0	ე ⊾ Cyclical	39.2	1.31
- Dilu	Basic Materials	5.0	1.98
	Consumer Cyclical	12.5	1.21
	Financial Services	13.6	0.97
1	Real Estate	8.1	2.81
	√ Sensitive	39.9	0.88
1	■ Communication Services	3.3	0.42
	▲ Energy	5.4	1.07
	Industrials	15.4	1.76
Rol Std Indov	■ Technology	15.8	0.66
1 00	→ Defensive	21.0	0.84
0.77	Consumer Defensive	4.0	0.57
2.39	♣ Healthcare	10.9	0.74
1	Utilities	6.0	2.05

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Objective:

Growth 11.4 Years Multiple Fidelity Investments

Minimum Initial Purchase:

\$0

Total Assets:

\$26,896.38 mil

US3161462656 **FSMDX**

Incept:

09-08-2011

Purchase Constraints:

Tenure:

Manager:

Ticker:

Base Currency:

OSD

ISIN:

Family:

Greater Europe Greater Asia

99.1 0.8 0.1

Americas

Regional Exposure

Stocks %

Below B

888

Credit Quality Breakdown

₽

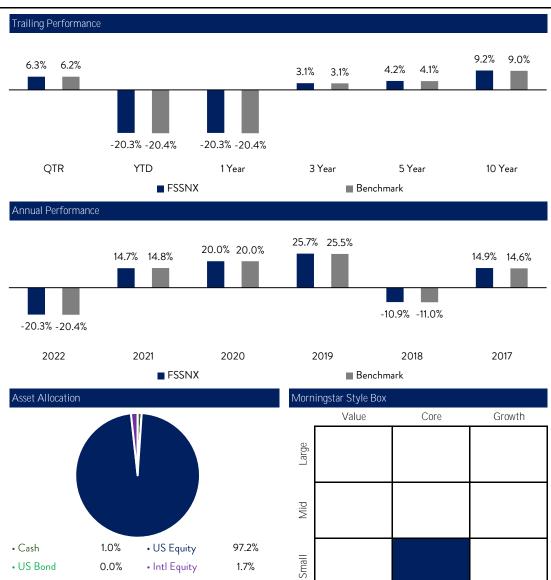
묾

Fidelity® Small Cap Index FSSNX

Product Details	
Name	Fidelity® Small Cap Index
Ticker	FSSNX
Expense Ratio	0.025%
Morningstar Category	US Fund Small Blend
Benchmark	Russell 2000 TR USD
Inception Date	9/8/2011
Longest Tenured Manager	Louis Bottari
Longest Manager Tenure	11.42 Years
Fund Size	\$20,828,879,215

Fund Characteristics	FSSNX	+/- Category
% Assets in Top 10 Holdings	3.58%	-22.66%
Average Market Cap (mil)	\$2,280	-\$1,859
P/E Ratio (TTM)	11.54	-0.43
P/B Ratio (TTM)	1.97	-0.15
Est. Dividend Yield	1.58%	0.03%

Sector Allocations	FSSNX	Category	+/- Category
Materials	4.3%	4.7%	-0.4%
Communication Services	2.5%	2.3%	0.2%
Consumer Discretionary	10.4%	11.6%	-1.2%
Consumer Staples	4.2%	4.3%	-0.1%
Healthcare	16.1%	13.9%	2.3%
Industrials	14.7%	17.6%	-2.9%
Real Estate	7.7%	6.7%	1.0%
Technology	13.6%	13.6%	0.1%
Energy	6.7%	5.3%	1.4%
Financial Services	16.3%	17.2%	-1.0%
Utilities	3.5%	2.7%	0.8%
Other	0.0%	0.0%	0.0%



0.0%

• Other

0.0%

• Intl Bond

Fidelity® Small Cap Index FSSNX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• FSSNX	6.25%	-20.27%	-20.27%	3.15%	4.22%	9.17%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	6.23%	-20.44%	-20.44%	3.10%	4.13%	9.01%	• FSSNX	6.25%	-2.08%	-17.18%	-7.47%
+/- Benchmark	0.02%	0.16%	0.16%	0.05%	0.09%	0.16%	• Benchmark	6.23%	-2.19%	-17.20%	-7.53%
Peer Group Rank	89	80	80	74	63	49	+/- Benchmark	0.02%	0.10%	0.02%	0.05%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• FSSNX	-20.27%	14.71%	19.99%	25.71%	-10.88%	14.85%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-20.44%	14.82%	19.96%	25.52%	-11.01%	14.65%	• FSSNX	2.10%	-4.40%	4.26%	12.73%
+/- Benchmark	0.16%	-0.11%	0.03%	0.18%	0.14%	0.20%	• Benchmark	2.14%	-4.36%	4.29%	12.70%
Peer Group Rank	80	90	14	38	38	28	+/- Benchmark	-0.04%	-0.04%	-0.04%	0.03%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• FSSNX	4.22%	3.65%	5.25%	9.84%	12.11%	13.56%	• FSSNX	31.28%	4.98%	25.49%	-30.62%
• Benchmark	4.13%	3.55%	5.17%	9.74%	12.02%	13.45%	• Benchmark	31.37%	4.93%	25.42%	-30.61%
+/- Benchmark	0.09%	0.09%	0.08%	0.09%	0.09%	0.11%	+/- Benchmark	-0.09%	0.05%	0.07%	-0.01%
Peer Group Rank	63	53	59	43	38	26					
							5-Year Quarterly				
Risk Statistics	3 '	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• FSSNX	10.01%	-2.34%	2.13%	14.56%
Alpha	0.05	0.00	0.09	0.00	0.15	0.00	Benchmark	9.94%	-2.40%	2.10%	14.58%
Beta	1.00	1.00	1.00	1.00	1.00	1.00	+/- Benchmark	0.07%	0.06%	0.04%	-0.02%
Standard Deviation	26.38	26.39	23.49	23.50	19.25	19.26					
Sharpe Ratio	0.22	0.21	0.24	0.23	0.51	0.50	5-Year Quarterly				
Information Ratio	0.51	-	1.02	-	1.63	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	2.29	2.25	2.87	2.78	8.36	8.19	• FSSNX	-20.17%	3.63%	7.79%	-0.05%
Upside Capture Ratio	100.06	100.00	100.16	100.00	100.30	100.00	Benchmark	-20.20%	3.58%	7.75%	-0.08%
Downside Capture Ratio	99.92	100.00	99.89	100.00	99.72	100.00	+/- Benchmark	0.03%	0.05%	0.03%	0.03%

(USD) Fidelity® Small Cap Index **Bronze ^a** 12-31-2022 Morningstar Quantitative Rating™

æ **■**

99

99

98

88

99

1 1 1 1

100

1 ■

98

99

Investment Style Equity Stocks %

Overall Morningstar Rating™ Standard Index ★★★ S&P 500 TR USD

588 US Fund Small Blend

USD Russell 2000 TR Category Index

> US Fund Small Blend Morningstar Cat

Performance 01-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	12.73	4.26	-4.40	2.10	14.71
2022	-7.47	-17.18	-2.08	6.25	-20.27
2023	I	I	I	I	9.82
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-3.17	7.59	5.63	9.53	11.01
Std 12-31-2022	-20.27		4.22	9.17	10.19
Total Return	-3.17	7.59	5.63	9.53	11.01
+/- Std Index	5.05	-2.30	-3.91	-3.15	
+/- Cat Index	0.21	0.08	0.10	0.17	
% Rank Cat	73	78	66	50	
No. in Cat	613	588	543	364	

	eld —	30-day SEC Yield
	1	7-day Yield
Unsubsidized	Subsidized	

12.15 16.38 2012

0.03

662

0.38

Performance Disclosure
The Original Magningstar Rating is based on risk-adjusted returns, of the three-, five-, and 10-year of the three-, five-, and 10-year of the three-. (if applicable) Morningstar metrics.

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than The performance data quoted represents past performance and does not guarantee future results. The investment return and their original cost.

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 800-544-8544 or visit

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Deferred Load % Front-End Load % Sales Charges Fees and Expenses ž

Fund Expenses			
Management Fees %			0.03
12b1 Expense %			NA
Net Expense Ratio %			0.03
Gross Expense Ratio %			0.03
Risk and Return Profile			
	3 Yr 588 funds	5 Yr 543 funds	10 Yr 364 funds
Morningstar Rating™	2★	3 ★	3★
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	-Avg	Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	26.81	23.83	19.38
Mean	7.59	5.63	9.53
Sharpe Ratio	0.37	0.29	0.53
MPT Statistics	Standard Index		Best Fit Index Russell 2000 TR
Alpha	-2.	-2.15	0.08 0.08
Beta	<u>.</u>	1.13	1.00
R-Squared	80.90	90	100.00
12-Month Viold			

681 737	33 40	0.20 0.30	6.64 -8.50	39.02 5.19	16.54 16.79	2013 2014				Y						
780	44	0.17	-5.63	-4.24	15.46	2015					Ì					
750	40	0.32	9.67	21.63	18.36	2016										
802	22	0.20	-6.98	14.85	20.32	2017					Į					
769	జ	0.14	-6.49	-10.88	17.24	2018										
702	30	0.18	-5.78	25.71	21.03	2019							_			
671	14	0.03	1.59	19.99	24.98	2020				,	1		>			
630	93	-0.11	-13.99	14.71	27.56	2021								\		
611	84	0.16	-2.16	-20.27	21.70	2022						{		}		
623	1	0.07	3.53	9.82	23.83	01-23		4k	10k		ZUK		4Uk		50 K	E I
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)		i co	40.260	Standard Index	Category Average	30,736	 Fidelity® Small Cap Index 	Growth of \$10,000	

2 66	77	Real Estate				
1.16	ces 16.3	Financial Services				D :
1.00	ical 10.4	Consumer Cyclical				A S
1.70	s 4.3	Basic Materials	8		acesii	
1.29	38.6	∿ Cyclical	Rond %		down	Cradit Ouglity Brook
Rel Std Index	Stocks %	Sector Weightings				MOJ
0.26	Saia Inc	212,185			Avg Wtd Price	belM
0.27	SouthState Corp	599,847			Avg Wtd Coupon	цбіі
0.27	Texas Roadhouse Inc	534,104			Avg Eff Duration	Ltd Mod Ext
0.27	Kinsale Capital Group Inc	173,134			Ava Eff Maturity	Fixed-Income Style
0.27	RBC Bearings Inc					
0.27	Iridium Communications Inc	⊕ 1 mil	0.00	2280 0.0	\$mil	llsm2
0.28	Inspire Medical Systems Inc			2.0 0.52	P/B Ratio I IM	biM
0.28	Murphy Oil Corp	⊕ 1 mil	_		P/C Ratio I IM	əf
0.28	Karuna Therapeutics Inc	237,839			P/E Ratio TTM	Lan
0.30	Matador Resources Co	899,459		Avg Index	FORHOLIO STRUSTICS	Value Blend Growth
0.31	EMCOR Group Inc	388,412			D. Lie Carrier	2
0.31	Halozyme Therapeutics Inc		1.00	101.00	100.00	Total
0.37	ShockWave Medical Inc	284,353	0.00	0.00	0.00	Other/Not Clsfd
0.90	E-mini Russell 2000 Index Future D	① 1,869	0.00	0.01	0.01	Bonds
0.95	Fidelity Revere Str Tr		0.00	1.74	1.74	Non-US Stocks
	24% Turnover Ratio		0.00	98.20	98.20	US Stocks
Net Assets %	Holdings: 1,948 Total Stocks , 1 Total Fixed-Income ,	Share Chg Share since Amount	_ 0.	Long %	Net %	Asset Allocation %
					s 11-30-2022	Portfolio Analysis 11-30-2022

Purcha Incept: Type: Total A		□ ☆ → Ⅲ {	
Purchase Constraints: Incept: Type: Total Assets:	Defensive Consumer Defensive Healthcare Utilities	Sensitive Communication Services Energy Industrials Technology	Sector Weightings O Cyclical Basic Materials Consumer Cyclical Financial Services Real Estate
A 09-08-2011 MF \$20,828.88 mil	23.9 4.2 16.1 3.5	37.6 2.5 6.7 14.7 13.6	Stocks % 38.6 4.3 10.4 16.3 7.7
	0.96 0.60 1.10 1.19	0.83 0.32 1.32 1.68 0.57	Rel Std Index 1.29 1.70 1.00 1.16 2.66

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Objective:

Small Company 11.4 Years Multiple Fidelity Investments

Minimum Initial Purchase:

\$0

Tenure:

Family:

Manager:

Ticker:

FSSNX US3161461823

Base Currency:

ISIN:

Potential Cap Gains Exp

12-Month Yield

Greater Europe Greater Asia

99.2 0.4 0.4

0.37 9.58 1.00

Americas

Regional Exposure

Stocks %

Rel Std Index

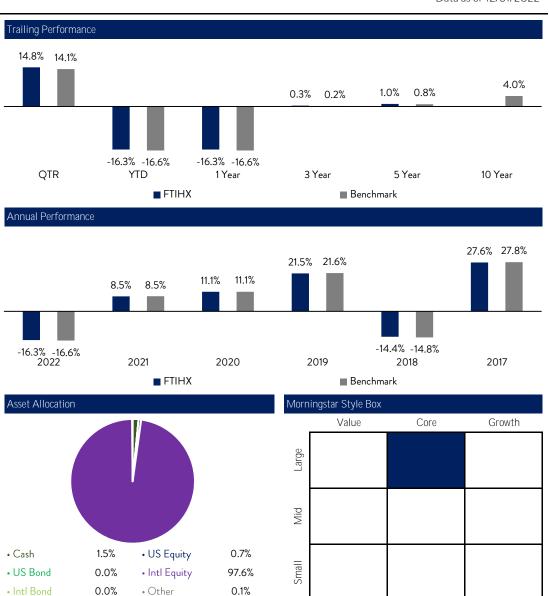
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Fidelity® Total International Index FTIHX

Product Details	
Name	Fidelity® Total International Index
Ticker	FTIHX
Expense Ratio	0.060%
Morningstar Category	US Fund Foreign Large Blend
Benchmark	MSCI ACWI Ex USA IMI NR USD
Inception Date	6/7/2016
Longest Tenured Manager	Louis Bottari;Peter Matthew;
Longest Manager Tenure	6.67 Years
Fund Size	\$9,844,954,518

Fund Characteristics	FTIHX	+/- Category
% Assets in Top 10 Holdings	9.62%	-5.09%
Average Market Cap (mil)	\$26,104	-\$21,129
P/E Ratio (TTM)	11.69	-0.99
P/B Ratio (TTM)	1.52	-0.20
Est. Dividend Yield	4.03%	0.16%

Sector Allocations	FTIHX	Category	+/- Category
Materials	8.7%	7.6%	1.1%
Communication Services	6.0%	5.2%	0.8%
Consumer Discretionary	11.1%	10.6%	0.5%
Consumer Staples	8.3%	10.1%	-1.8%
Healthcare	9.7%	12.5%	-2.8%
Industrials	13.2%	14.6%	-1.4%
Real Estate	3.4%	2.1%	1.2%
Technology	10.9%	9.9%	1.0%
Energy	5.9%	5.7%	0.2%
Financial Services	19.7%	18.9%	0.8%
Utilities	3.2%	2.9%	0.3%
Other	0.0%	0.0%	0.0%



Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• FTIHX	14.78%	-16.28%	-16.28%	0.29%	0.96%	-	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	14.15%	-16.58%	-16.58%	0.20%	0.85%	3.98%	• FTIHX	14.78%	-10.45%	-13.16%	-6.21%
+/- Benchmark	0.63%	0.31%	0.31%	0.09%	0.12%	-	• Benchmark	14.15%	-9.69%	-14.28%	-5.60%
Peer Group Rank	77	56	56	59	59	-	+/- Benchmark	0.63%	-0.76%	1.12%	-0.61%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• FTIHX	-16.28%	8.47%	11.07%	21.48%	-14.38%	27.63%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-16.58%	8.53%	11.12%	21.63%	-14.76%	27.81%	• FTIHX	2.01%	-3.02%	5.53%	3.91%
+/- Benchmark	0.31%	-0.06%	-0.04%	-0.16%	0.37%	-0.18%	• Benchmark	1.64%	-2.56%	5.60%	3.77%
Peer Group Rank	56	66	44	63	42	29	+/- Benchmark	0.36%	-0.46%	-0.06%	0.14%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• FTIHX	0.96%	-0.83%	2.60%	6.75%	9.85%	8.89%	• FTIHX	16.81%	6.78%	17.41%	-24.15%
• Benchmark	0.85%	-0.78%	2.50%	6.92%	9.83%	9.13%	• Benchmark	17.22%	6.80%	16.96%	-24.11%
+/- Benchmark	0.12%	-0.04%	0.10%	-0.16%	0.02%	-0.24%	+/- Benchmark	-0.41%	-0.01%	0.45%	-0.05%
Peer Group Rank	59	42	38	41	44	44					
							5-Year Quarterly				
Risk Statistics	3 '	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• FTIHX	9.02%	-1.68%	2.85%	10.19%
Alpha	0.15	0.00	0.15	0.00	-	0.00	Benchmark	9.20%	-1.72%	2.74%	10.31%
Beta	1.01	1.00	1.01	1.00	-	1.00	+/- Benchmark	-0.18%	0.04%	0.11%	-0.12%
Standard Deviation	20.32	19.92	17.75	17.48	-	14.72					
Sharpe Ratio	0.07	0.07	0.07	0.06	-	0.28	5-Year Quarterly				
Information Ratio	0.04	-	0.06	-	-	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	-0.56	-0.66	-0.38	-0.50	-	3.17	• FTIHX	-11.71%	0.33%	-2.96%	-0.40%
Upside Capture Ratio	102.95	100.00	101.77	100.00	-	100.00	Benchmark	-11.88%	0.39%	-2.61%	-1.06%
Downside Capture Ratio	102.50	100.00	101.26	100.00	-	100.00	+/- Benchmark	0.17%	-0.06%	-0.35%	0.66%

2nd Otr 3rd Otr 4th Otr Total % — — — 96 97 90 95 99 97 98 —	Fidelity® Total International Morningstar Quantitative Overall Morningstar Rating™ Standard Index Category Index Index (USD) Reformance 01.43.2023 Morningstar Quantitative Overall Morningstar Rating™ *** MSCI ACWI Ex MSCI A	Re lease date 01-31-2023
Equity Stocks %	ry Index Morningstar Cat ACWI Ex US Fund Foreign Large R USD Blend Investment Style	

Unsubsidized	Unsı	Subsidized	S		7 J V: -11
		614	702	744	No. in Cat
		61	ස	70	% Rank Cat
1		0.16	0.56	-0.74	+/- Cat Index
		0.16	0.56	-0.74	+/- Std Index
5.85	ı	1.52	4.20	-6.46	Total Return
4.62		0.96		-16.28	Std 12-31-2022
5.85	1	1.52	4.20	-6.46	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
8.45	ı		ı		2023
14.78 -16.28	14.78	-10.45	-13.16	-6.21	2022
8.4/	2.01	-3.02	5.53	3.91	1707

Performance Disclosure
The Overall Marningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield 7-day Yield

2012

2013

2014

2015

2016 10.00

2018

2019

2020

2021

History

Performance Quartile (within category)

· 20k

Category Average 14,715 Standard Index 15,168

15,151

<u>,</u>

4

. 60k 80k . 100k

Growth of \$10,000

Fidelity® Total International

4

27.63 12.53 2017

21.48 12.42

13.57 11.07

14.34

11.71 2022

12.70 01-23

-14.38 -0.19 10.50

0.44 0.44

-0.19

-0.03 -0.03

0.42 0.42

0.65

0.34 0.34 8.45

0.658.47

-16.28 -0.27 -0.27

49

785

767

No. of Funds in Cat % Rank Cat +/- Category Index +/- Standard Index Total Return % NAV/Price

Net Assets

Manufacturing

1.44 1.35 1.23 1.20 1.00

60

(if applicable) Morningstar metrics.

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 sold or redeemed, may be worth more or less than their original cost.

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 800-544-8544 or visit www.institutional.fidelity.com.

0.54 1.03	0.54 1.03	1.0	Alpha Beta
Best Fit Index MSCI ACWI Ex USA		Standard Index	MPT Statistics
ı	0.10	0.26	Sharpe Ratio
1	1.52	4.20	Mean
ı	17.98	20.75	Standard Deviation
10 Yr	5 Yr	3 Yr	
	Avg	Avg	Morningstar Return
1	Avg	Avg	Morningstar Risk
ı	3★	3★	Morningstar Rating [™]
10 Yr 422 funds	5 Yr 614 funds	3 Yr 702 funds	
			Risk and Return Profile
0.06			Gross Expense Ratio %
0.06			Net Expense Ratio %
NA			12b1 Expense %
0.06			Management Fees %
			Fund Expenses
¥			Deferred Load %
NA			Front-End Load %
			Sales Charges
			Fees and Expenses
			vv vvvvstitutionaliuemty.com.

Fixed-Income Style

ЧбіН baM

Avg Eff Maturity Avg Eff Duration Avg Wtd Coupon Avg Wtd Price

1

5 mil 2 mil

Alibaba Group Holding Ltd Ordinary BHP Group Ltd

0.62 0.59

726,618 93,202

Novartis AG

LVMH Moet Hennessy Louis Vuitton SE

0.77 0.76 0.74

Portfolio Analysis 12-31-2022	is 12-31-2022					
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share	Holdings:
Cash	-0.10	1.57	1.66	since	Amount	5,059 Total Stocks , 1 Total Fixed-Income ,
US Stocks	0.68	0.68	0.00	7707-111		3% Turnover Hatto
Non-US Stocks	99.27	99.27	0.00	⊕	129 mil	Fidelity Revere Str Ir
Bonds	0.00	0.00	0.00		8 mil	Taiwan Semiconductor Manufact
Other/Not Clsfd	0.15	0.15	0.00	袋	1,124	MSCI EAFE Index Future Mar 23
Total	100.00	101.66	1.66	①	925,515	Nestle SA
2		- 1			Z mil	2 mil Tencent Holdings Ltd
Equity Style	Portfolio Statistics	Port Rel Avg Index	K Cat		558,158	Novo Nordisk A/S Class B
Dates Course	P/E Ratio TTM				137,044	ASML Holding NV
ə6.	P/C Ratio TTM	8.3 0.92			522,480	AstraZeneca PLC
biM	P/B Ratio TTM	1.5 0.91			224 <u>560</u>	Roche Holding AG
nS	Geo Avg Mkt Cap	26104 0.60	0 0.55		2 mil	2 mil Samsung Flactronics Colltd
IIE	91111				1	9
				D	2 mil	2 mil Shell PLC

		1.02	0.98	99 N	Rel Std Index		I	I		1) 	Donal o/	
Purchase Constraints: Incept: Type: Total Assets:	Utilities	Healthcare	Consumer Defensive	→ Defensive	Technology	Industrials	Energy	Communication Services	✓ Sensitive	Real Estate	Financial Services	Consumer Cyclical	Basic Materials	Դ Cyclical	Sector Weightings
— 06-07-2016 MF \$9,844,95 mil	3.2	9.7	8.3	21.2	10.9	13.2	5.9	6.0	36.0	3.4	19.7	11.1	8.7	42.8	Stocks %
	1.07	1.02	0.99	1.02	0.95	1.09	1.00	0.93	1.00	1.41	0.94	0.98	1.02	0.99	Rel Std Index

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		, analyses or opinions or their use. Opinions expressed are as of the date written and are subject to change without notice. Investment research is produced and issued by subsidiaries of	not warranted to be correct, complete or accurate. Except as otherwise required by law, Morningsfar shall not be responsible for any trading decisions, damages or other losses resulting from, or re n, data, analyses or opinions or their use. Opinions expressed are as of the date written and are subject to change without notice. Investment research is produced and issued by subsidiaries of Mor	syar. (3) may not be copied or redistributed, (4) do not constitute investment and vice offered by Morningstar, (5) are provided solely for informational purposes and therefore are not an offer to buy or sell all agency marranted to be correct, complete or accurate. Except as otherwise required by law, Morningstar, is all not be responsible for any trading decisions, damages or other losses resulting form, or relations to the complete or accurate. Except as otherwise required by law, Morningstar, is all not be responsible for any trading decisions, damages or other losses resulting form, or relations to the complete or accurate. Except as otherwise required by law, Morningstar, is all not be responsible for any trading decisions, damages and therefore resulting form, or relations to the complete or accurate. Except as a first part of the complete of the complete or accurate the complete of the complete or accurate the complete or accurate the complete or accurate the complete or accurate. Except as a complete or accurate the compl	Commission. This report is supplemental sales literature. If applicable it must be	but not limited to, Morningstar Research Services LLC, registered with and governed by the U.S. Securities and Exchan	
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Objective:

Tenure:

6.7 Years Foreign Stock

Multiple Fidelity Investments

Ticker:

HIT US31635V6386

Base Currency:

ISIN:

Minimum Initial Purchase:

\$0

Family:

Manager:

Potential Cap Gains Exp

-18.74%

R-Squared

98.94

98.94

Americas Regional Exposure

Stocks %

Below B NR

888

⊳ Ş

Credit Quality Breakdown AAA

Greater Europe Greater Asia

10.8 44.0 45.2

12-Month Yield

0.85

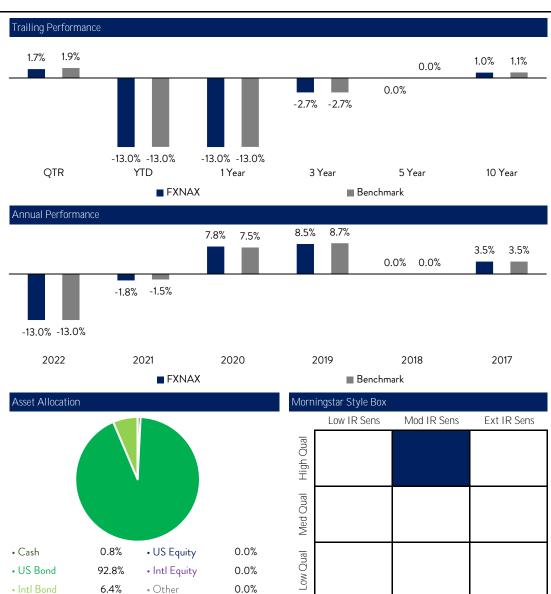
0.79 0.79 0.79

Fidelity® US Bond Index FXNAX

Product Details	
Name	Fidelity® US Bond Index
Ticker	FXNAX
Expense Ratio	0.025%
Morningstar Category	US Fund Intermediate Core Bond
Benchmark	Bloomberg US Agg Bond TR USD
Inception Date	5/4/2011
Longest Tenured Manager	Brandon C Bettencourt
Longest Manager Tenure	8.75 Years
Fund Size	\$58,424,122,537

Fund Characteristics	FXNAX	+/- Category
% Assets in Top 10 Holdings	9.63%	-35.75%
Average Eff Duration	6.13	0.08
Average Eff Maturity	-	-
Average Credit Quality	AA	A (Cat Avg.)
Average Coupon	2.67%	-0.36%

Sector Allocations	FXNAX	Category	+/- Category
Government	47.7%	30.9%	16.8%
Municipal	0.5%	0.8%	-0.3%
Bank Loan	0.0%	0.1%	-0.1%
Convertible	0.0%	0.0%	0.0%
Corporate Bond	23.3%	25.7%	-2.4%
Preferred Stock	0.0%	0.0%	0.0%
Agency MBS	27.4%	25.8%	1.6%
Non-Agency RMBS	0.0%	0.3%	-0.3%
Commercial MBS	0.0%	0.7%	-0.7%
Asset-Backed	0.3%	6.3%	-6.0%
Cash & Equivalents	0.8%	6.8%	-6.0%
Other	0.0%	2.6%	-2.6%



Fidelity® US Bond Index FXNAX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• FXNAX	1.68%	-13.03%	-13.03%	-2.72%	-0.02%	1.01%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	1.87%	-13.01%	-13.01%	-2.71%	0.02%	1.06%	• FXNAX	1.68%	-4.69%	-4.66%	-5.88%
+/- Benchmark	-0.19%	-0.02%	-0.02%	0.00%	-0.04%	-0.05%	 Benchmark 	1.87%	-4.75%	-4.69%	-5.93%
Peer Group Rank	45	28	28	45	38	42	+/- Benchmark	-0.19%	0.06%	0.04%	0.06%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• FXNAX	-13.03%	-1.79%	7.80%	8.48%	0.01%	3.50%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-13.01%	-1.54%	7.51%	8.72%	0.01%	3.54%	• FXNAX	-0.12%	0.02%	1.85%	-3.48%
+/- Benchmark	-0.02%	-0.25%	0.29%	-0.23%	0.00%	-0.04%	• Benchmark	0.01%	0.05%	1.83%	-3.37%
Peer Group Rank	28	63	51	50	25	44	+/- Benchmark	-0.13%	-0.03%	0.02%	-0.11%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• FXNAX	-0.02%	-0.28%	0.86%	2.09%	3.52%	2.89%	• FXNAX	0.75%	0.43%	2.77%	3.66%
• Benchmark	0.02%	-0.27%	0.88%	2.14%	3.57%	2.94%	• Benchmark	0.67%	0.62%	2.90%	3.15%
+/- Benchmark	-0.04%	-0.01%	-0.02%	-0.05%	-0.05%	-0.06%	+/- Benchmark	0.08%	-0.19%	-0.13%	0.51%
Peer Group Rank	38	41	38	51	51	58					
							5-Year Quarterly				
Risk Statistics	3	Year	5	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• FXNAX	0.06%	2.27%	2.97%	2.96%
Alpha	0.00	0.00	-0.04	0.00	-0.05	0.00	 Benchmark 	0.18%	2.27%	3.08%	2.94%
Beta	1.00	1.00	1.00	1.00	1.01	1.00	+/- Benchmark	-0.12%	0.00%	-0.11%	0.01%
Standard Deviation	5.86	5.85	5.10	5.09	4.18	4.11					
Sharpe Ratio	-0.58	-0.58	-0.24	-0.23	0.07	0.08	5-Year Quarterly				
Information Ratio	-0.01	-	-0.15	-	-0.16	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	-3.57	-3.57	-1.36	-1.32	0.19	0.24	• FXNAX	1.70%	0.07%	-0.22%	-1.51%
Upside Capture Ratio	100.19	100.00	100.02	100.00	101.36	100.00	• Benchmark	1.64%	0.02%	-0.16%	-1.46%
Downside Capture Ratio	100.16	100.00	100.70	100.00	102.63	100.00	+/- Benchmark	0.06%	0.05%	-0.06%	-0.059

(USD) Fidelity® US Bond Index

Performance 01-31-2023	-31-2023					
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Qtr	Total %	
2021	-3.48	1.85	0.02	-0.12	-1.79	
2022	-5.88	-4.66	-4.69	1.68	-13.03	
2023		I			3.18	
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept	
Load-adj Mthly	-8.36	-2.37	0.84	1.39	1.97	
Std 12-31-2022	-13.03	I	-0.02	1.01	1.71	
Total Return	-8.36	-2.37	0.84	1.39	1.97	
+/- Std Index	0.00	-0.02	-0.02	-0.04	I	
+/- Cat Index	0.00	-0.02	-0.02	-0.04		
% Rank Cat	34	47	37	38		
No. in Cat	453	406	373	276		

30-day SEC Yield 7-day Yield Subsidized Unsubsidized

Performance Disclosure
The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year The performance data quoted represents past performance and (if applicable) Morningstar metrics.

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than Current performance may be lower or higher than return data their original cost. does not guarantee future results. The investment return and

Net Assets

quoted herein. For performance data current to the most recent month-end, please call 800-544-8544 or visit www.institutional.fidelity.com

Fees and Expenses Sales Charges Front-End Load % NA Deferred Load % NA			
--	--	--	--

99.70	0	99.70	R-Squared
1.00	0	1.00	Beta
-0.02	2	-0.02	Alpha
Bond TR USD	B		
Best Fit Index	Rloon	Standard Index	MPT Statistics
0.15	-0.08	-0.52	Sharpe Ratio
1.39	0.84	-2.37	Mean
4.28	5.27	6.04	Standard Deviation
10 Yr	5 Yr	3 Yr	
Avg	Avg	Avg	Morningstar Return
Avg	Avg	-Avg	Morningstar Risk
3★	3 ⊁	3 ★	Morningstar Rating™
10 Yr 276 funds	5 Yr 373 funds	3 Yr 406 funds 3	
			Risk and Return Profile
0.03			Gross Expense Ratio %
0.03			Net Expense Ratio %
NA			12b1 Expense %
0.03			Management Fees %
			Fund Expenses

-		2	CC Gold	Morningstar Analyst Rating™ Overall Morningstar Rating™ Standard Index
	Core Bond	406 US Fund Intermediate	***	Overall M
		ınd Interm		T orningsta
-		ediate		ır Rating™
		Agg Bo	Bloomb	Standa
		Agg Bond TR USD	Bloomberg US	rd Index
		U		

Bloomberg US Agg Bond TR USD

US Fund Intermediate Core Bond **Morningstar Cat**

Category Index

1165	82	0.02	0.02	4.23	11.89	2012									: :::::::::::::::::::::::::::::::::::::		
1079	69	-0.17	-0.17	-2.19	11.36	2013									98		-
1038	26	0.02	0.02	5.99	11.73	2014									96		•
1042	≅	0.08	0.08	0.63	11.49	2015									99		-
985	66	-0.13	-0.13	2.52	11.49	2016)						99		-
986	57	-0.04	-0.04	3.50	11.59	2017									97		Core Bond
1019	29	0.00	0.00	0.01	11.28	2018									99		nd
430	49	-0.23	-0.23	8.48	11.91	2019									98		-
415	41	0.29	0.29	7.80	12.45	2020									98		=
423	ස	-0.25	-0.25	-1.79	11.98	2021									98		-
453	జ	-0.02	-0.02	-13.03	10.18	2022			1						99		=
472		0.10	0.10	3.18	10.48	01-23			•						1		
								: #	10k	VV	30,	: 40k	NO9.	,			
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)		11,932	Standard Index	— Category Average 12 063	11,891	■ Fidelity® US Bond Index	Growth of \$10,000	Bond %	Investment Style Fixed-Income	

99.33 99.33 0.00 724 mil 9.00 0.00 0.00 584 mil 100.00 100.10 0.10 © 678 mil	Asset Allocation % Cash US Stocks Non-US Stocks Bonds Other/Not Clsfd Total Equity Style Portfolio Str Value Bland Growth Bland Growth F/C Ratio T P/B Ratio T P/B Ratio T F/B Ratio T Geo Avg M Smil		nde:	: 왕	are Chg ce -2022		Holdings: 0 Total Stocks , 8,729 Total Fixed-Income , 50% Turnover Ratio United States Treasury Notes 2.75% United States Treasury Notes 2.25% Federal Home Loan Mortgage Corpora United States Treasury Notes 2.625% United States Treasury Notes 1.5% United States Treasury Notes 4.125% United States Treasury Notes 4.25% United States Treasury Notes 2.25%
	Growth	Portfolio Statistics P/E Ratio TTM P/C Ratio TTM P/B Ratio TTM P/B Ratio TTM Geo Avg Mkt Cap \$mil			•	507 mil 461 mil 396 mil 430 mil 420 mil	United States Treasury Notes 1.59 United States Treasury Notes 3% United States Treasury Notes 4.12 United States Treasury Notes 0.59 United States Treasury Notes 2.25
Portfolio Statistics	Fixed-Income Style	Avg Eff Maturity Avg Eff Duration Avg Wtd Coupon Avg Wtd Price		6.13 89.42	①	411 mil 362 mil 349 mil 408 mil 372 mil	United States Treasury Notes 1% United States Treasury Notes 2.75% United States Treasury Notes 1.5% Federal National Mortgage Associat United States Treasury Notes 1.25%

10.73	4.37	74 70	Dond o/		89.42	:	6 13		
Financial Services	Consumer Cyclica	Basic Material:	Դ Cyclical	Sector Weightings	372 mil	① 408 mil	349 mil	362 mil	411 mil
ices —	slical —	ils –	1	Stocks %	372 mil United States Treasury Notes 1.25%	Federal National Mortgage Associat	United States Treasury Notes 1.5%	United States Treasury Notes 2.75%	411 mil United States Treasury Notes 1%
1	1	I	1	Rel Std Index	0.58	0.60	0.60	0.62	0.69

	l			Rel Std Index	0.02	0.00	0.00	0.00	10.18	10.73	4.37	74 70	Road %	
▼ Utilities	■ Healthcare	Consumer Defensive	→ Defensive	Technology	⇔ Industrials	♠ Energy	Communication Services	∨ Sensitive	Real Estate	Financial Services	Consumer Cyclical	Basic Materials	Դ Cyclical	Sector Weightings
		1	I		1	1	1	Ι	l			1	I	Stocks %
			1		1		1	1					1	Rel Std Index

Below B NR

88 88

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Credit Quality Breakdown 12-31-2022 AAA

Objective:	Tenure:	Manager:	Family:	Operations
Multisector Bond	8.8 Years	Multiple	Fidelity Investments	

Potential Cap Gains Exp

-0.01%

Greater Asia Greater Europe Americas Regional Exposure

12-Month Yield

Minimum Initial Purcha	ISIN:	Ticker:	Base Currency:	

Initial Purchase:			ency:	
\$0	US3161463563	FXNAX	USD	

	83		
Total Assets:	Type:	Incept:	Purchase Constraints:
\$54,947.37 mil	MF	05-04-2011	Þ

0.82

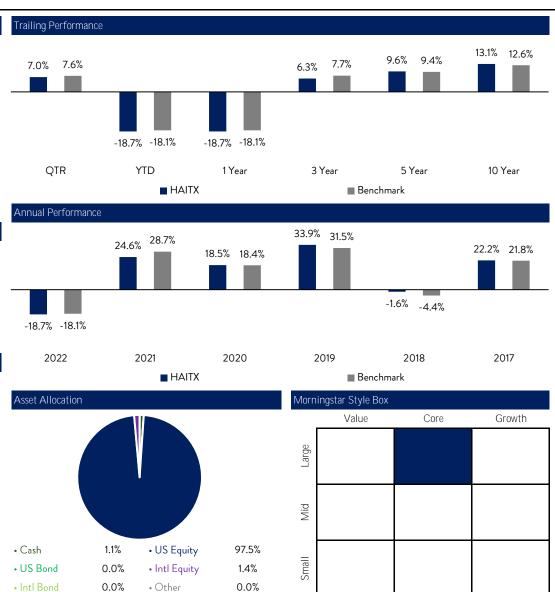
1.76 1.11 1.02 1.00 1.00

0.80 0.71 0.71 0.71 0.70

Product Details	
Name	Hartford Core Equity R6
Ticker	HAITX
Expense Ratio	0.360%
Morningstar Category	US Fund Large Blend
Benchmark	S&P 500 TR USD
Inception Date	3/31/2015
Longest Tenured Manager	Mammen Chally
Longest Manager Tenure	24.83 Years
Fund Size	\$9,803,818,251

Fund Characteristics	HAITX	+/- Category
% Assets in Top 10 Holdings	31.89%	-17.75%
Average Market Cap (mil)	\$148,707	-\$62,314
P/E Ratio (TTM)	20.23	1.94
P/B Ratio (TTM)	3.86	-0.28
Est. Dividend Yield	1.62%	-0.32%

Sector Allocations	HAITX	Category	+/- Category
Materials	1.1%	2.8%	-1.7%
Communication Services	5.5%	7.1%	-1.6%
Consumer Discretionary	9.4%	9.8%	-0.4%
Consumer Staples	7.7%	7.4%	0.2%
Healthcare	18.8%	16.0%	2.7%
Industrials	10.2%	10.4%	-0.2%
Real Estate	1.7%	2.4%	-0.7%
Technology	24.0%	22.5%	1.5%
Energy	3.9%	4.4%	-0.5%
Financial Services	14.1%	14.3%	-0.2%
Utilities	3.7%	2.8%	0.9%
Other	0.0%	0.0%	0.0%



Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• HAITX	7.00%	-18.65%	-18.65%	6.30%	9.63%	13.14%	Performance	4Q22	3Q22	2Q22	1Q22
Benchmark	7.56%	-18.11%	-18.11%	7.66%	9.42%	12.56%	• HAITX	7.00%	-4.14%	-15.16%	-6.51%
+/- Benchmark	-0.57%	-0.54%	-0.54%	-1.36%	0.20%	0.58%	Benchmark	7.56%	-4.88%	-16.10%	-4.60%
Peer Group Rank	77	61	61	71	15	2	+/- Benchmark	-0.57%	0.74%	0.94%	-1.91%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• HAITX	-18.65%	24.62%	18.49%	33.89%	-1.55%	22.17%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-18.11%	28.71%	18.40%	31.49%	-4.38%	21.83%	• HAITX	10.24%	0.26%	7.78%	4.61%
+/- Benchmark	-0.54%	-4.08%	0.09%	2.41%	2.83%	0.33%	Benchmark	11.03%	0.58%	8.55%	6.17%
Peer Group Rank	61	75	35	7	6	29	+/- Benchmark	-0.78%	-0.33%	-0.76%	-1.56%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• HAITX	9.63%	9.78%	11.35%	15.92%	18.92%	17.07%	• HAITX	12.49%	9.77%	19.10%	-19.42%
• Benchmark	9.42%	9.24%	11.31%	15.99%	18.47%	16.90%	• Benchmark	12.15%	8.93%	20.54%	-19.60%
+/- Benchmark	0.20%	0.55%	0.04%	-0.07%	0.44%	0.17%	+/- Benchmark	0.34%	0.84%	-1.45%	0.17%
Peer Group Rank	15	8	14	16	12	16					
							5-Year Quarterly				
Risk Statistics	3,	Year	5 \	/ear	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• HAITX	9.06%	2.49%	5.44%	13.61%
Alpha	-1.06	0.00	0.50	0.00	1.07	0.00	• Benchmark	9.07%	1.70%	4.30%	13.65%
Beta	0.96	1.00	0.95	1.00	0.95	1.00	+/- Benchmark	-0.01%	0.79%	1.14%	-0.04%
Standard Deviation	20.29	21.16	17.86	18.69	14.15	14.77					
Sharpe Ratio	0.36	0.41	0.53	0.50	0.89	0.82	5-Year Quarterly				
Information Ratio	-0.74	-	0.11	-	0.26	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	5.70	6.81	8.71	8.08	13.01	11.75	• HAITX	-11.97%	7.62%	2.78%	1.10%
Upside Capture Ratio	93.12	100.00	95.69	100.00	96.68	100.00	• Benchmark	-13.52%	7.71%	3.43%	-0.76%
Downside Capture Ratio	96.25	100.00	93.41	100.00	90.76	100.00	+/- Benchmark	1.55%	-0.09%	-0.65%	1.86%

Morningstar Analyst Rating™ Overall Morningstar Rating™ Standard Index

Category Index

Morningstar Cat

(USD) **Hartford Core Equity R6**

Performance 01-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	4.61	7.78	0.26	10.24	24.62
2022	-6.51	-15.16	-4.14	7.00	-18.65
2023		1			5.32
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-9.85	7.93	9.47	I	10.75
Std 12-31-2022	-18.65		9.63	I	10.13
Total Return	-9.85	7.93	9.47	13.19	10.75
+/- Std Index	-1.64	-1.95	-0.07	0.51	
+/- Cat Index	-1.30	-1.72	0.08	0.68	
% Rank Cat	85	8	27	4	
No. in Cat	1354	1227	1119	822	

The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield Performance Disclosure

(if applicable) Morningstar metrics.

7-day Yield

Subsidized

Unsubsidized

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and

month-end, please call 888-843-7824 or visit quoted herein. For performance data current to the most recent Current performance may be lower or higher than return data

Management Fees % Fund Expenses Front-End Load % Net Expense Ratio % 12b1 Expense % Deferred Load % Sales Charges Fees and Expenses 0.36 0.33 R ž ĸ

12-Month Yield Potential Cap Gains Exp	R-Squared	Alpha	MPT Statistics	Sharpe Ratio	Mean	Standard Deviation		Morningstar Return	Morningstar Risk	Morningstar Rating™		Risk and Return Profile	Gross Expense Ratio %
	99.43	-1.49	Standard Index	0.43	7.93	20.46	3 Yr	-Avg	-Avg	2★	3 Yr 5 Yr 1,227 funds 1,119 funds		
	ω σ	Ι Ψ	S&	0.52	9.47	17.81	5Yr	+Avg	-Avg	4⋆	5 Yr 19 funds		
— 29.40%	99.43	-1.49	Best Fit Index S&P 500 TR USD	0.89	13.19	14.16	10 Yr	High	-Avg	5¤	10 Yr <i>822 funds</i>		0.36

		0.87	1.29	17.29		2012		8	
	ı	2.52	3.25	35.63	1	2013		88 🖽	Bronze 08-15-2022
	ı	2.65	2.20	15.89		2014		96	Inze 022
	1	5.98	5.51	6.90	23.80	2015		92	
1	ı	-6.30	-6.21	5.75	24.77	2016		97	
1	ı	0.48	0.33	22.17	29.16	2017		8 🖽	*** 1,227 U
1402	7	3.23	2.83	-1.55	27.18	2018		94	★★★ 227 US Fund Large Blend
1387	7	2.47	2.41	33.89	35.42	2019		8 1	arge Ble
1363	딿	-2.47	0.09	18.49	41.63	2020		% ##	
1382	74	<u>-1</u> .83	-4.08	24.62	50.23	2021		8 1	S&P 500
1358	<u> </u>	0.48	-0.54	-18.65	39.27	2022		9	S&P 500 TR USD
1432	ı	-1.38	-0.96	5.32	41.36	01-23		- 100k - 100k - 40k - 20k	
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)	Investment Style Equity Stocks % OR Growth of \$10,000 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Russell 1000 TR US Fund Large Blend USD

Portfolio Analysis 12-31-2022	s 12-31-2022						
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share		Net.
Cash	1.07	1.07	0.00	since	Amount	68 Total Stocks, 0 Total Fixed-Income,	
US Stocks	97.52	97.52	0.00	7707-11		15% luribyer nano	
Non-US Stocks	1.41	1.41	0.00	1	Z mil	Microsoft Corp	
Bonds	0.00	0.00	0.00	1	3 mil	Apple Inc	
Other/Not Clsfd	0.00	0.00	0.00	1	5 mil	Alphabet Inc Class A	
Total	100.00	100.00	0.00	①	604,120 3 mil	04,120 UnitedHealth Group Inc	
Equity Style	Portfolio Statistics	Port Rel	Gat Re	D : (9 mil	2 mil _IPMorgan Chase & Co	
Value Blend Growth	P/E Ratio TTM	20.2 0.99	_	① (2 mil	2 mil Procter & Gamble Co	
96	P/C Ratio TTM	16.6 1.10		1	2 mil	EOG Resources Inc	
biM	P/B Ratio I IIVI			1	4 mil	Pfizer Inc	
llsm2	\$mil	140/0/ 0.00	0./0	①	543,729	543,729 Eli Lilly and Co	
				D	2 mil	2 mil TJX Companies Inc	
Fixed-Income Style				D	494,308	494,308 Mastercard Inc Class A	
Ltd Mod Ext	Avg Ell Maturity)	205 521	ONE ED1 Thormo Fisher Coiontifis Inc	

_			
мор			Sector Weightings
Credit Ouglity Broakdown		Don't of	Դ Cyclical
$\Delta\Delta\Delta$,	9	Basic Material
AA			Consumer Cycl
A			Financial Servi
BBB		1	Real Estate
BB			y ✓ Sensitive
В		1	■ Communication
Below B			Energy
NR		l	
Regional Exposure	Stocks %	Rel Std Index	i eciliology
Americas	98.6	1.00	→ Detensive
Greater Europe	1.4	1.33	Lipalith per
Greater Asia	0.0	0.00	Utilities

	\$9,908.15 mil	\$9,908		s:	Total Assets:	Tot			
		¥,			. E.	Type:		5	1840
	-2015	03-31-2015			pt:	Incept:			
		Þ	īs:	onstrain	Purchase Constraints:	Pun			
1.26	3.7			8	Utilities		9		
1.27	18.8			care	Healthcare		0 - 5		
1.07	7.7		ensive	Consumer Defensive	Consur		_ 공 등		
1.21	30.1			ive :	Defensive		nei Stainlaex	T E	
1.01	24.0			logy	Technology		C+4 lade	2	
1.17	10.2			ials	Industrials	· •	I		
0.77	3.9				Energy	<u> </u>	1		
0.70	5.5 5	S	Communication Services	ınicatio	Commu	#0	ı		
0.96	43.6			Ve	Sensitive	` {	I		
0.58	1.7			state	Real Estate	Đ			
1.00	14.1		ces	Financial Services	Financi	13.	I		
0.91	9.4		lical	Consumer Cyclical	Consur	Ð			
0.45	1.1		S	Basic Materials	Basic N		Bond %		
Hel Std Index	Stocks % 26.3			htings al	Sector Weightings Դ Cyclical				
	:	-				' (
1.73		Bank of America Corp	Bank of ,	5 I		D (
1.78	3	Stanley	Morgan Stanley	2 mil	ş	D (ı		
1.79	c Inc	Thermo Fisher Scientific Inc	Thermo f	305.521	ω,	D (ı		
1.83		Mastercard Inc Class A	Masterca	494 308	40	D (
1 94		T.IX Companies Inc	T IX Com	9 mil		D į (
2.12		and Co	Eli Lilly and Co	543,729	2		6 0.70	17 0.86	18707
2.19			Pfizer Inc	4 mil					3.9
2 45		FOG Besources Inc	FOG Res	2 mil		D (16.6
2.46		Procter & Gamble Co	Procter &	2 mil			_		20.2
2 49		an Chase & Co	IPMoras	9 mil			e Rel	int Rel	Port
2.95		com Inc	Amazon.com Inc	3 mil			0.00	00.00	5
3.41		UnitedHealth Group Inc	UnitedHe	604,120	96	_	n ::	3	1
4.27		Alphabet Inc Class A	Alphabet	5 mil			0.00	0.00	
4.43			Apple Inc	ω Mil			0 0.00	0.41	_
5.13		ft Corp	Microsoft Corp	2 mil			0.00	1 //1	رد
%	d-Income,	68 Total Stocks , 0 Total Fixed-Income 15% Turnover Ratio	68 Total Stocks, 0 T 15% Turnover Ratio	Amount	122		0.00	1.07	2 . 5
Net Assets			Holdings:	Share	Share Cha		Short %	ono %	_
	No. of Funds in Cat	1432	1358	1382	1363	1387	1402		_
	% Rank Cat		<u>6</u>	74	35	7	7	1	
	+/- Category Index	-1.38	0.48	-1.83	-2.47	2.47	3.23	0.48	
	+/- Standard Index		-0.54	-4.08	0.09	2.41	2.83	0.33	_
	Total Return %		-18.65	24.62	18.49	33.89	-1.55	22.17	2 !
	NAV/Price	41.36	39.27	50.23	41.63	35.42	27.18	29.16	2
	History	01-23	2022	2021	2020	2019	2018	2017	
	Performance Quartile (within category)								пп
		4 _k							
		IUK							
	40,260	2						:	_

ЧбіН baM

Avg Eff Duration Avg Wtd Coupon Avg Wtd Price

Objective:

Growth 24.8 Years Multiple

Tenure:

Family:

Hartford Mutual Funds

Ticker:

HAITX US41664R

OSD

ISIN:

Minimum Initial Purchase:

\$0

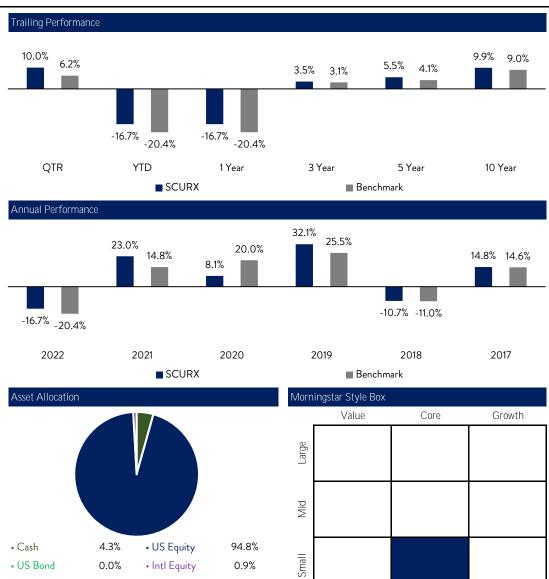
Base Currency:

Manager:

Product Details	
Name	Hartford Schroders US Small Cap Opps SDR
Ticker	SCURX
Expense Ratio	0.950%
Morningstar Category	US Fund Small Blend
Benchmark	Russell 2000 TR USD
Inception Date	9/28/2015
Longest Tenured Manager	Rob Kaynor
Longest Manager Tenure	5.08 Years
Fund Size	\$317,437,730

Fund Characteristics	SCURX	+/- Category
% Assets in Top 10 Holdings	16.40%	-9.84%
Average Market Cap (mil)	\$2,748	-\$1,392
P/E Ratio (TTM)	16.82	4.85
P/B Ratio (TTM)	2.05	-0.06
Est. Dividend Yield	1.28%	-0.27%

Sector Allocations	SCURX	Category	+/- Category
Materials	9.8%	4.7%	5.1%
Communication Services	2.1%	2.3%	-0.3%
Consumer Discretionary	9.0%	11.6%	-2.6%
Consumer Staples	5.1%	4.3%	0.8%
Healthcare	12.7%	13.9%	-1.2%
Industrials	12.0%	17.6%	-5.6%
Real Estate	2.9%	6.7%	-3.8%
Technology	20.8%	13.6%	7.2%
Energy	5.6%	5.3%	0.3%
Financial Services	16.1%	17.2%	-1.1%
Utilities	3.9%	2.7%	1.2%
Other	0.0%	0.0%	0.0%



0.0%

• Other

0.0%

• Intl Bond

Hartford Schroders US Small Cap Opps SDR SCURX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• SCURX	10.04%	-16.67%	-16.67%	3.48%	5.49%	9.95%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	6.23%	-20.44%	-20.44%	3.10%	4.13%	9.01%	• SCURX	10.04%	-6.04%	-13.33%	-7.01%
+/- Benchmark	3.81%	3.77%	3.77%	0.38%	1.37%	0.94%	 Benchmark 	6.23%	-2.19%	-17.20%	-7.53%
Peer Group Rank	27	51	51	69	34	27	+/- Benchmark	3.81%	-3.85%	3.86%	0.51%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• SCURX	-16.67%	22.98%	8.14%	32.06%	-10.72%	14.81%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-20.44%	14.82%	19.96%	25.52%	-11.01%	14.65%	• SCURX	6.92%	-1.21%	2.84%	13.20%
+/- Benchmark	3.77%	8.16%	-11.82%	6.53%	0.29%	0.16%	• Benchmark	2.14%	-4.36%	4.29%	12.70%
Peer Group Rank	51	51	74	3	35	28	+/- Benchmark	4.78%	3.15%	-1.45%	0.50%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• SCURX	5.49%	4.30%	6.33%	10.01%	12.47%	12.62%	• SCURX	26.06%	4.86%	21.22%	-32.51%
• Benchmark	4.13%	3.55%	5.17%	9.74%	12.02%	13.45%	• Benchmark	31.37%	4.93%	25.42%	-30.61%
+/- Benchmark	1.37%	0.74%	1.16%	0.26%	0.46%	-0.83%	+/- Benchmark	-5.32%	-0.07%	-4.20%	-1.90%
Peer Group Rank	34	39	34	39	28	47					
							5-Year Quarterly				
Risk Statistics	3,	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• SCURX	9.33%	0.72%	6.02%	13.12%
Alpha	0.54	0.00	1.50	0.00	1.78	0.00	 Benchmark 	9.94%	-2.40%	2.10%	14.58%
Beta	0.90	1.00	0.90	1.00	0.87	1.00	+/- Benchmark	-0.61%	3.12%	3.92%	-1.47%
Standard Deviation	24.67	26.39	21.77	23.50	17.26	19.26					
Sharpe Ratio	0.23	0.21	0.29	0.23	0.59	0.50	5-Year Quarterly				
Information Ratio	0.05	-	0.23	-	0.19	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	2.92	2.25	4.62	2.78	10.50	8.19	• SCURX	-16.99%	4.34%	4.69%	-1.54%
Upside Capture Ratio	93.32	100.00	94.15	100.00	90.71	100.00	• Benchmark	-20.20%	3.58%	7.75%	-0.08%
Downside Capture Ratio	92.02	100.00	89.31	100.00	83.40	100.00	+/- Benchmark	3.21%	0.76%	-3.06%	-1.46%

Cap Opps SDR (USD) Hartford Schroders US Small Morningstar Analyst Rating ** Overall Morningstar Rating ** Con One on the Control of the Control

588 US Fund Small Blend

Standard Index S&P 500 TR USD

USD

Russell 2000 TR Category Index

US Fund Small Blend Morningstar Cat

-		•	•													
Performance 01-31-2023															\blacksquare	Investment Style
Quarterly Returns 1st Qtr	2nd Otr 3	3rd Otr	4th Qtr Total %	90	92	94	92	92	ස	94	95	96	97	96	1	Equity Stocks %
2021 13.20	2.84	-1.21	6.92 22.98												100k	
2022 -7.01	-13.33	-6.04	10.04 -16.67													Growth of \$10,000
2023 —			9.56										}	{	40k	 Hartford Schroders US Small
Trailing Returns 1 Yr	3 Yr	5 Yr	10 Yr Incept											3	2	31,809
,		5.49	- 8.95				}	1				1			202	28,515
Total Return -1.14	7.74	7.09	<i>10.33</i> 10.20												10k	Standard Index
+/- Std Index 7.08	-2.14	-2.45	-2.35 —													
+/- Cat Index 2.24	0.24	1.55	0.97 —												4	
% Rank Cat 45	75	35	25				Ш									Performance Quartile
No. in Cat 613	588	543	364	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	01-23	History
	Subs	Subsidized	Unsubsidized	1			22.92	25.91	27.27	22.03	27.65	29.84	32.94	27.19	29.79	NAV/Price
7-day Yıeld				12.45	34.62	8.50	-1.37	19.49	14.81	-10.72	32.06	8.14	22.98	-16.67	9.56	Total Return %
30-day SEC Yield				-3.55	2.23	-5.19	-2.75	7.53	-7.03	-6.34	0.57	-10.26	-5.73	1.44	3.28	+/- Standard Index
Performance Disclosure				-3.90	-4.20	3.60	3.04	-1.82	0.16	0.29	6.53	-11.82	8.16	3.77	-0.18	+/- Category Index
The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three- five- and 10-year	g is based on the the properties of the properti	on risk-a bree-, fiv	djusted returns, e- and 10-vear	ı	1	ı	ı	ස	ı	32	4	67	59	52	1	% Rank Cat
nerven riorr a merdiren anera	מכ טו נווכ נו	11 00-, 114	c-, and ro-year					1		1	1	1	,			

Fees and Expenses	www.hartfordfunds.com.	month-end, please call 888-843-7824 or visit	quoted herein. For performance data current to the most recent	Current performance may be lower or higher than return data	their original cost.	shares, when sold or redeemed, may be worth more or less than	principal value of an investment will fluctuate; thus an investor's	the performance data quoted represents past performance and does not quarantee future results. The investment return and	(if applicable) Morningstar metrics.
	Total	Other/Not Clsfd	Bonds	Non-US Stocks	US Stocks	Cash	Asset Allocation %	Portfolio Analysis 12-31-2022	- - - - - /30 - /89 /02 671 630 611 623
0.00	100 00 100 00	0.00	0.00	0.87	94.78	4.35	Net %	022	 -
		0.00	0.00	0.87	94.78	4.35	Long %		
	0 00	0.00	0.00	0.00	0.00	0.00	Short %		- 69/
Ð	⊕	⊕	(Œ) - 102	since 11_2022	Share Chg		/02 0/
152 003	38,885	15,318	39,32/		3	Amount	Share		- 030
152 003 Box Inc Class A	38,885 Balchem Corp	15,318 Valmont Industries Inc	39,327 ICU Medical Inc	is illi Morgan stanley institututy inspecs	Mossoo Stopley Instilledt, ToSoo	Amount 96 Total Stocks, 5 Total Fixed-Income,	Share Holdings:		No. of Funds in Cat
									Cal

Performance Disclosure
The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year

671 67

සි

623

No. of Funds in Cat % Rank Cat +/- Category Index +/- Standard Index Total Return %

Net Assets

	Гtd	χ								Value	•	Ë.
	Mod	l-Inco								Blend		quity Style
	Εŭ	ixed-Income Style								Blend Growth		e
		¥		llen	S	F	iM	96,1	?7			
Ava Eff Duration	Avg Eff Maturity			\$mil	Geo Avg Mkt Cap		P/B Ratio TTM	P/C Ratio TTM	P/E RATIO I IIVI	D/1 D-1:- TTM		Portfolio Statistics
					2/48	2	2.1	12.0	0.8	2 2	>	Port
					20.0)	0.55	0.80	U.O.J		ndov	Re
	1				0.66		0.97	1.19	.4	4 6	2	Re
Œ) (D (Ð	Œ) (Ŧ) (Ð (Đ			

Management Fees % Fund Expenses

0.90

Ϋ́

MACOM Technology Solutions Holding Reinsurance Group of America Inc

78,265 31,508 94,156 58,743

> Hexcel Corp Kemper Corp

Front-End Load %

Sales Charges

Fees and Expenses

Deferred Load %

₹ ₹

		гом				
ı	Avg Wtd Price	baM				
ı	Ava Wtd Coupon	Ч				
ı	Avg Eff Duration	giH				
ı	Avg Eff Maturity		Εx	Mod	Гtd	
		ě	ne Si	Fixed-Income Style	Fixed	

0.95

M		
Credit Quality Breakdown —		Bond %
AAA		
AA		
Α		1
BBB		1
BB		
В		I
Below B		1
NR		l
Regional Exposure	Stocks %	Rel Std Index
Americas	100.0	1.01
Greater Europe	0.0	0.00
Greater Asia	0.0	00 00

Purchase (Incept:		- v Sensitive - Communica - Co	Sector Weightings Or Cyclical Bond % Basic Mater Consumer Cr Financial Se Real Estate	
Purchase Constraints: Incept:	Defensive Consumer Defensive Healthcare Utilities	Sensitive Communication Services Energy Industrials Technology	or Weightings Cyclical Basic Materials Consumer Cyclical Financial Services Real Estate	85,316 Maxar Technologies Inc 129,150 The Chefs' Warehouse Inc 39,561 Ashland Inc 31,258 Eagle Materials Inc
A 09-28-2015	21.7 5.1 12.7 3.9	40.4 2.1 5.6 12.0 20.8	Stocks % 37.8 9.8 9.0 16.1 2.9	Maxar Technologies Inc The Chefs' Warehouse Inc Ashland Inc Eagle Materials Inc
	0.88 0.72 0.86 1.33	0.89 0.27 1.11 1.36 0.88	Rel Std Index 127 3.89 0.87 1.15	1.50 1.46 1.44 1.41

Objective:

Growth 5.1 Years Rob Kaynor Hartford Mutual Funds

Minimum Initial Purchase:

\$5 mil

Total Assets:

돆 \$316.75 mi

Family:

Potential Cap Gains Exp

14.61%

12-Month Yield

Manager:

Ticker: ISIN:

SCURX US41665H2682

Base Currency:

Alpha

MPT Statistics

Standard Index

ex Best Fit Index Morningstar US Sml Ext TR USD

Sharpe Ratio

Standard Deviation

25.12 7.74

22.13 7.09 0.36

10.33 0.61 17.40 Morningstar Risk Morningstar Rating™

-Avg -Avg 3 Y

-Avg Avg 5Yr

> +Avg Low

10 Yr

Risk and Return Profile Gross Expense Ratio % Net Expense Ratio % 12b1 Expense %

588 funds

5 Yr 543 funds 4★

10 Yr 364 funds

2★

4☆

Morningstar Return

R-Squared

-1.49 1.04 79.06

0.23 0.90

95.42

2.10 1.72 1.61 1.61

4.35

1.60 1.60 1.57 1.56 1.56

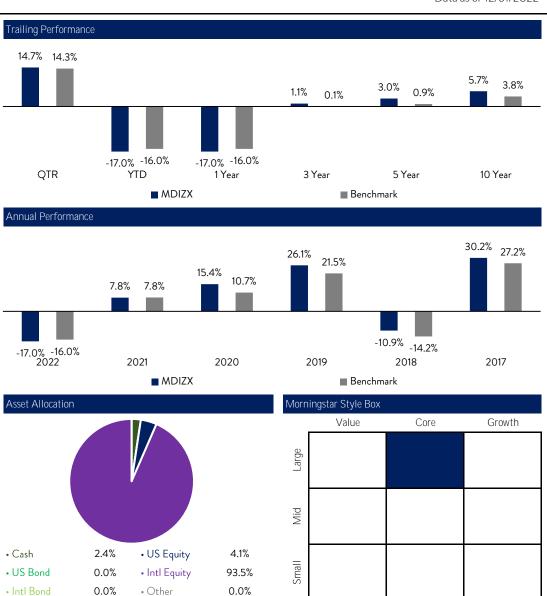
156,877

WNS (Holdings) Ltd ADR Allegro Microsystems Inc Ordinary

Product Details	
Name	MFS Intl Diversification R6
Ticker	MDIZX
Expense Ratio	0.720%
Morningstar Category	US Fund Foreign Large Blend
Benchmark	MSCI ACWI Ex USA NR USD
Inception Date	10/2/2017
Longest Tenured Manager	Camille Humphries Lee
Longest Manager Tenure	4.42 Years
Fund Size	\$34,684,332,260

Fund Characteristics	MDIZX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	-
Average Market Cap (mil)	\$32,175	-\$15,058
P/E Ratio (TTM)	14.44	1.75
P/B Ratio (TTM)	1.90	0.18
Est. Dividend Yield	3.04%	-0.83%

Sector Allocations	MDIZX	Category	+/- Category
Materials	10.0%	7.6%	2.3%
Communication Services	4.9%	5.2%	-0.4%
Consumer Discretionary	10.4%	10.6%	-0.2%
Consumer Staples	12.5%	10.1%	2.4%
Healthcare	9.2%	12.5%	-3.3%
Industrials	15.3%	14.6%	0.8%
Real Estate	1.8%	2.1%	-0.4%
Technology	13.0%	9.9%	3.1%
Energy	4.1%	5.7%	-1.5%
Financial Services	16.7%	18.9%	-2.2%
Utilities	2.2%	2.9%	-0.8%
Other	0.0%	0.0%	0.0%



Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• MDIZX	14.74%	-17.02%	-17.02%	1.06%	3.00%	5.73%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	14.28%	-16.00%	-16.00%	0.07%	0.88%	3.80%	• MDIZX	14.74%	-9.35%	-12.36%	-8.97%
+/- Benchmark	0.45%	-1.02%	-1.02%	0.99%	2.12%	1.93%	 Benchmark 	14.28%	-9.91%	-13.73%	-5.44%
Peer Group Rank	78	63	63	38	10	9	+/- Benchmark	0.45%	0.56%	1.37%	-3.53%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• MDIZX	-17.02%	7.78%	15.43%	26.09%	-10.92%	30.25%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-16.00%	7.82%	10.65%	21.51%	-14.20%	27.19%	• MDIZX	3.24%	-2.39%	5.01%	1.84%
+/- Benchmark	-1.02%	-0.05%	4.78%	4.58%	3.27%	3.05%	• Benchmark	1.82%	-2.99%	5.48%	3.49%
Peer Group Rank	63	71	22	21	10	11	+/- Benchmark	1.43%	0.60%	-0.47%	-1.65%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• MDIZX	3.00%	1.35%	4.33%	8.93%	12.72%	10.94%	• MDIZX	13.65%	7.97%	17.21%	-19.74%
• Benchmark	0.88%	-0.81%	2.50%	6.76%	9.61%	8.94%	• Benchmark	17.01%	6.25%	16.12%	-23.36%
+/- Benchmark	2.12%	2.16%	1.83%	2.17%	3.11%	1.99%	+/- Benchmark	-3.37%	1.72%	1.09%	3.61%
Peer Group Rank	10	8	8	8	7	11					
							5-Year Quarterly				
Risk Statistics	3	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• MDIZX	9.37%	-1.15%	4.11%	12.02%
Alpha	0.90	0.00	2.01	0.00	2.07	0.00	 Benchmark 	8.92%	-1.80%	2.98%	10.31%
Beta	0.95	1.00	0.93	1.00	0.91	1.00	+/- Benchmark	0.45%	0.65%	1.13%	1.71%
Standard Deviation	18.87	19.53	16.44	17.23	13.72	14.60					
Sharpe Ratio	0.10	0.06	0.18	0.06	0.42	0.27	5-Year Quarterly				
Information Ratio	0.26	-	0.58	-	0.55	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	0.22	-0.78	1.78	-0.46	5.39	2.98	• MDIZX	-11.72%	1.31%	-0.25%	-0.15%
Upside Capture Ratio	100.47	100.00	99.27	100.00	96.87	100.00	Benchmark	-11.46%	0.71%	-2.61%	-1.18%
Downside Capture Ratio	96.71	100.00	90.26	100.00	85.99	100.00	+/- Benchmark	-0.26%	0.61%	2.36%	1.03%

(USD) MFS Intl Diversification R6

97

No. in Cat +/- Cat Index +/- Std Index Std 12-31-2022 Load-adj Mthly 2023 2022 2021 Quarterly Returns % Rank Cat Total Return Trailing Returns Performance 01-31-2023 -17.02 1st Otr -8.97 -0.17-0.17-5.88 -5.88 1.84 -12.36 2nd Otr 1.01 5.01 4.65 4.65 702 3 Υ 88 3rd Otr -9.35 -2.39 2.37 2.37 3.73 3.00 3.73 614 5 Yr 1 14.74 4th Otr 3.24 6.18 1.99 1.99 10 Yr 422 10 7.78 -17.02 Total % 3.98 5.50 Incept 8.45 5.50

1	1	30-day SEC Yield
1	1	7-day Yield
Unsubsidized	Subsidized	

18.39

1.56 1.56 2012

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.

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than The performance data quoted represents past performance and does not guarantee future results. The investment return and their original cost.

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 800-225-2606 or visit

Fees and Expenses	
Sales Charges	
Front-End Load %	N
Deferred Load %	NA
Fund Expenses	
Management Fees %	0.00
12b1 Expense %	NA
Net Expense Ratio %	0.72
Gross Eynense Ratio %	0 73

8.44%			Potential Cap Gains Exp
I			12-Month Yield
96.36	8	96.36	R-Squared
0.95	ŭ	0.95	Beta
1.06	б	1.06	Alpha
NR USD			
Best Fit Index MSCI ACWI Ex USA		Standard Index	MPT Statistics
0.44	0.22	0.28	Sharpe Ratio
6.18	3.73	4.65	Mean
13.91	16.73	19.38	Standard Deviation
10 Yr	5Yr	3 Yr	
High	High	Avg	Morningstar Return
Low	-Avg	-Avg	Morningstar Risk
5☆	5⊁	4★	Morningstar Rating [™]
422 funds	614 funds	702 funds	
10 Yr	5Yr	3 Yr	
			Risk and Return Profile
0.73			Gross Expense Ratio %
0.72			Net Expense Ratio %
NA			12b1 Expense %
0.00			Management Fees %
			Fund Expenses
N			Deferred Load %

	- 1
©5-23-2022 □5-23-2022 □1 □7 □7 □3 □7 □3 □7 □7 □7 □7 □7 □7 □7 □7 □7 □7	Mornin
97	ıgstar A
88 🗔	Morningstar Analyst Rating™ Overall Morningstar Rating™
97	ating™
702 US Fu Blend	0verall
702 US Fund Foreign Large Blend 97 95 96	Mornin
reign La	gstar Ra
97 🎞	
USA NIR USD 98 98	Standard Index
usb r	d Index
USA NII	Categ
SD S	Category Index
	ex
Blend Strengt Style Blend Strengt Style ity ks % And of \$10,000 MFS Intl Diversification R6 22,419 Category Average 18,794 Standard Index 18,340	Morningstar Cat
d Forei	ıgstar (
on R6	at

Asset Allocation % Net % Cash 2.35 US Stocks 4.14	Long % 2.39 4.14	Short % 0.04	Share Chg Share since Amount 11-2022	are Holdings : Int 603 Total Stocks , 0 Total Fixed-Income,	tal Fixed-Income,
tocks	2.39 4 14	0.04	22		tal Fixed-Income,
	4 14	9	11-/1//	40/ T	
		0.00	100		
Non-US Stocks 93.52	93.52	0.00	⊕ 448 mil	nil MFS Research International R6	ernational R6
	0.00	0.00	① 190 mil	nil MFS Emerging Markets Equity R6	arkets Equity R6
Not Clsfd	0.00	0.00	⊕ 410 mil	nil MFS International Large Cap Value	Large Cap Value
100.00	100 04	0 04	⊕ 135 mil	nil MFS International Intrinsic Value	Intrinsic Value
	0	0	⊕ 134 mil		Growth R6
Equity Style Portfolio Statistics				ALC Interpotional	Now Disposition DR
P/E Ratio TTM	14.4 1.15	1.14	4	III IVII 3 IIIteiliatioliai New Discovel y IIo	New Discovery no
			Sector Weightings	S	Stocks %
≥ P/B Ratio TTM	1.9 1.14	1.10	Դ Cyclical		38.8
Geo Avg Mkt Cap	32175 0.74	0.68	Basic Materials	rials	10.0
			Consumer Cyclical	Cyclical	10.4
Fixed-Income Style			Financial Services	ervices	16.7
Ltd Mod Ext Avg Eff Maturity			Real Estate		1.8
qеіH		1	√ Sensitive		37.4
			Communica	Communication Services	4.9
AVG WV to Filed			Energy		4.1
мот			Industrials		15.3
		!	Technology		13.0
Credit Quality Breakdown —		Bond %			
AAA			→ Defensive		23.8
AA			Consumer Defensive	Defensive	12.5
A			Healthcare		9.2

MO			industrials
Credit Quality Breakdown —		Bond %	lechnology
AAA			→ Defensive
AA			Consumer Defen:
A		1	Healthcare
BBB			Utilities
BB			
В		1	
Below B			
NR		I	
Regional Exposure	Stocks %	Rel Std Index	
Americas	10.6	0.97	
Greater Europe	50.9	1.14	
Greater Asia	38.5	0.87	

2.2

1.49 0.97 0.72

Objective: Tenure:

Growth 4.4 Years Multiple

Minimum Initial Purchase:

\$

Type: Incept:

Purchase Constraints:

10-02-2017

Total Assets:

\$34,920.15 mil

Family:

Manager: Operations

Ticker:

MDIZX US5527435441

Base Currency:

Moderate Allocation Portfolio

Lifestyle Portfolios are multi-asset type investment options that are intended to be managed in accordance with a plan participant's retirement time horizon, long-term return expectations and overall tolerance for risk of principal loss. Since the asset allocation decision is the most important factor in determining investment returns over time, these types of funds provide three "packaged," diversified investment choices for those seeking assistance in making the asset allocation decision. Lifestyle Portfolios are constructed to provide different long-term investment return and risk characteristics that are determined by their underlying sub-funds. The sub-funds are actively managed U.S. Stock, International Stock and U.S. Bond Funds that are also available as "stand-alone" investment funds.

Category: Lifestyle Asset Class: Asset Allocation

FUND FACTS

Inception Date: October 1, 2004

Investment advisory fee for period ended September 30, 2022: **0.07%**

12b-1 fee: 0.00%

Other expenses: 0.11%

waivers or reductions for period ended September 30, 2022: **0.18%** Total fund annual expenses without

reductions: -0.02% Total waivers, recoupments, and

September 30, 2022: 0.16% Net fund annual expenses after waivers or reductions for period ended

Turnover rate: 13%

charged under that program additional fees and expenses may be If offered through a retirement program,

Important Information

Fund Company and/or Morningstar category information. Category is interpreted by Voya® using

This Portfolio is not a registered Strategy section San Bernardino and detailed within the percentage allocations designated by Lifestyle Portfolio, based upon the underlying investment options within the weighted blend of fees charged by the Investment advisory fee reflects a

the Securities and Exchange Commission. It is only available to participants in the San Bernardino invest in the Portfolio. eligible participants in the plan may qualified retirement program. Only Portfolio have not been registered with investment company, and interests in the

retirement program. expenses may be charged under your representative. Other fees and expenses for the funds at any time by calling your local Voya information on the charges and funds which contain additional prospectuses for the underlying You can obtain copies of free More

> enrollment material. information is included in the

Investment Objective

five, but less than ten years, or who are comfortable with the higher short-term its potential for investment return as well as the potential risk it assumes. It is fund assets are allocated to equities and forty percent (40%) are allocated to fixed provide long-term total return through a combination of capital growth and equity markets. investing at least half of their portfolio in fluctuations that are characteristic of able to remain invested for more than most suitable for participants who are of the three Lifestyle Funds in terms of income securities. It falls in the middle income. Sixty percent (60%) of the total Moderate Allocation Portfolio is to The investment objective of the

Strategy

Portfolio is to invest in a combination of active and passive investments in the following proportions: The strategy for the Moderate Allocation

83

a higher interest rate from time to time.
The current rate is subject to change, but Value Option where stability of principal is the primary objective. StabilizerSM minimum. will never fall below the guaranteed for the life of the contract, and may credit guarantees a minimum rate of interest 20% in the San Bernardino Stable

performance of common stocks publicly traded in the United States. income and a competitive total return.
--- 26% in the Fidelity® 500 Index Fund --- 20% in the Sterling Capital Total Return Bond Fund - Class R6 Shares results that correspond to the total return which seeks to provide investment which seeks a high level of current

of stocks of mid-capitalization results that correspond to the total return Fund which seeks to provide investment --- 6% in the Fidelity® Mid Cap Index

Fund which seeks to provide investment results that correspond to the total return United States companies.
--- 4% in the Fidelity® Small Cap Index States companies of stocks of small-capitalization United

developed and emerging stock markets correspond to the total return of foreign provide investment results that International Index Fund which seeks to 24% in the Fidelity® Total

> accompany this Lifestyle Portfolio Strategies and Principal Risks, and must Managers, Investment Objectives funds' Investment Advisers, Portfolio detailed information regarding the sub-Each sub-fund description contains more

Principal Risks

All equity (both U.S. and International) and fixed income investments exhibit risk characteristics of the underlying sub-Portfolios are based on the proportionate uncertainty. The risks of Lifestyle relate to currency and political stocks do carry additional risks that for investment return. International that also provide the greatest potential principal is greater with investment funds Generally, the probability of loss of the potential for loss of principal value. certain risk characteristics that include

San Bernardino Stable Value Option

403(b) plans. Stabilizer is available through a group annuity contract issued by Voya Retirement Insurance and Annuity Company ("VRIAC"), a member of the Voya® family of companies. StabilizerSM is the name for a series of stable value separate accounts marketed to 401, 457 and

Important Information

One Orange Way www.voyaretirementplans.com Windsor, CT 06095-4774 Voya Retirement Insurance and Annuity

What is the stable value option?

growth over time without daily fluctuations. defined contribution plan seeks to preserve participant account balances and to return steady The stable value investment option of your

What is Stabilizer?

managed by Voya Investment Management Co. LLC. The assets held in the separate account are "insulated" from claims arising out of any other business conducted by VRIAC and can be supported by its full faith and credit. VRIAC is a leading provider of stable value products and services and a member of the Voya® family of provided by VRIAC. used only for the benefit of plan participants. companies. The separate account assets are the claims-paying ability of VRIAC and are guarantees provided by the contract are based on the ordinary course of the plan's operation. availability of participant account balances in conditions, the contract generally guarantees the separate account group annuity contract It is an insurance company participating Subject to certain The

What does it invest in?

maintain a high overall credit quality and consists of various publicly traded fixed-income diversified separate account portfolio seeks to portfolio of fixed income assets. This The separate account invests in a diversified

Potential Risks

plan termination are not always covered by Stabilizer's guarantees and may be restricted or Under some scenarios it is possible for participants to lose money even in a stable value by any other government agency or by your Federal Deposit Insurance Corporation (FDIC), value account balance is not guaranteed by the subject to market value adjustment. Your stable layoffs, employer bankruptcy or full or partial events, such as withdrawals following mass Withdrawals resulting from employer-initiated investors to be aware of these potential risks. occur, but they can happen. It's important for Those situations are unlikely and rarely

What is the objective?

this investment option. While the contract is active, StabilizerSM guarantees a minimum rate of interest and may credit a higher interest rate from period to period. The credited interest rate is below the guaranteed minimum. Once the rate is credited, the interest becomes part of the interest. principal and may increase through compound subject to change, up or down but will never fall Stability of principal is the primary objective of

How is the rate of interest stated?

balances for the specified period. all new contributions and existing account This rate is net of all expenses and will apply to Participant balances are credited interest daily.

rate periods are quarterly, semi-annually or upcoming crediting rate period. The crediting The crediting rate is announced in advance of the

check your Voya quarterly participant statement. For information on your current rate, please

How does it benefit me?

stability an attractive feature. An announced rate of interest is another feature of stable value investment options that many participants like market value. help insulate against the daily fluctuations in The stable value investment option is intended to Many participants find this

option? transfers from my plan's stable value contributions, withdrawals, or Are there any limitations on

Participant transfers between the stable value option and funds with similar investment wash" provision be subject to an industry standard 90 day "equity objectives (referred to as competing funds) may own plan for limitations), however sometimes disability, unforeseen hardship, separation from service, or attainment of age 65 (consult your withdrawals as a result of retirement, death there are restrictions on participant transfers. Voya generally does not limit contributions or

What are the fees?

Total Annual fees are 0.34%

the 1940 Act and has not been registered with the Securities and Exchange Commission. This portfolio is not a registered investment under

Asset Class: Stability of Principal

09/30/2022) Top Ten Credit Exposures (as of

Southern Company (The)	UBS Group AG	Goldman Sachs Group Inc/The	Verizon Communications Inc	Royal Bank of Canada	Wells Fargo & Company	HSBC Holdings PLC	Morgan Stanley	JPMorgan Chase & Co	Bank of America Corp	
0.33	0.35	0.35	0.36	0.38	0.39	0.42	0.74	0.86	1.21	

COZZEGEGAA Sector Holdings (as of 09/30/2022)

JS Treasury & Cash	Other	Ion-Agency RMBS and SF CRT	G Corporates	IY Corporates	overnment Related	merging Markets	ommercial Mortgage Backed Securities	sset Backed Securities	vgency Mortgages
26.2	0.0	0.1	25.7	0.0	0.1	0.1	6.0	2.7	39.1

Statistical Data (as of 09/30/2022)

84

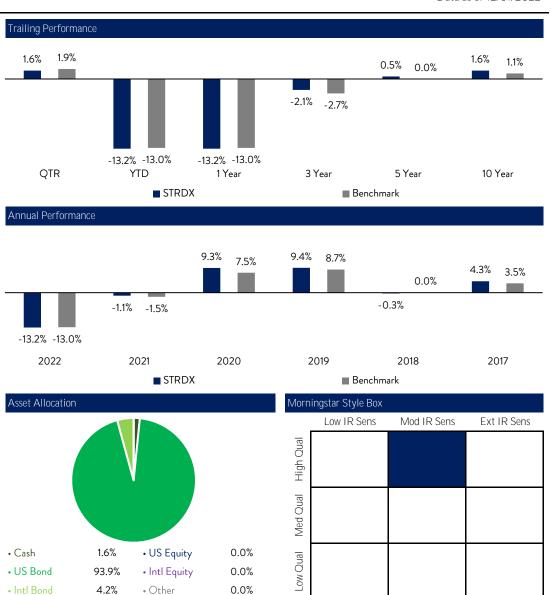
Average Life (years)	Yield to Maturity	Portfolio Duration (years)
6.331	4.99%	4.97

Sterling Capital Total Return Bond R6 STRDX

Product Details	
Name	Sterling Capital Total Return Bond R6
Ticker	STRDX
Expense Ratio	0.350%
Morningstar Category	US Fund Intermediate Core Bond
Benchmark	Bloomberg US Agg Bond TR USD
Inception Date	2/1/2018
Longest Tenured Manager	Mark M. Montgomery
Longest Manager Tenure	15.08 Years
Fund Size	\$1,052,426,023

Fund Characteristics	STRDX	+/- Category
% Assets in Top 10 Holdings	22.54%	-22.85%
Average Eff Duration	6.05	0.00
Average Eff Maturity	8.75	0.50
Average Credit Quality	AA	A (Cat Avg.)
Average Coupon	3.17%	0.14%

Sector Allocations	STRDX	Category	+/- Category
Government	19.2%	30.9%	-11.7%
Municipal	4.9%	0.8%	4.1%
Bank Loan	0.0%	0.1%	-0.1%
Convertible	0.0%	0.0%	0.0%
Corporate Bond	26.6%	25.7%	0.8%
Preferred Stock	0.0%	0.0%	0.0%
Agency MBS	29.1%	25.8%	3.3%
Non-Agency RMBS	0.0%	0.3%	-0.3%
Commercial MBS	0.6%	0.7%	-0.1%
Asset-Backed	17.7%	6.3%	11.4%
Cash & Equivalents	1.9%	6.8%	-4.8%
Other	0.0%	2.6%	-2.6%



Trailing Dorformer	OID.	VED	1 \/***	2 \/***	E Veen	10 \/***	5.1/				
Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly	1000	2022	2022	1000
• STRDX	1.57%	-13.15%	-13.15%	-2.08%	0.48%	1.58%	Performance	4Q22	3Q22	2Q22	1Q22
Benchmark	1.87%	-13.01%	-13.01%	-2.71%	0.02%	1.06%	• STRDX	1.57%	-4.42%	-4.69%	-6.15%
+/- Benchmark	-0.30%	-0.14%	-0.14%	0.64%	0.46%	0.53%	 Benchmark 	1.87%	-4.75%	-4.69%	-5.93%
Peer Group Rank	59	34	34	15	11	6	+/- Benchmark	-0.30%	0.33%	0.01%	-0.21%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• STRDX	-13.15%	-1.12%	9.35%	9.37%	-0.27%	4.33%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-13.01%	-1.54%	7.51%	8.72%	0.01%	3.54%	• STRDX	-0.26%	0.04%	2.16%	-3.00%
+/- Benchmark	-0.14%	0.42%	1.84%	0.65%	-0.28%	0.79%	• Benchmark	0.01%	0.05%	1.83%	-3.37%
Peer Group Rank	34	26	17	17	42	11	+/- Benchmark	-0.27%	-0.02%	0.33%	0.37%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• STRDX	0.48%	0.29%	1.41%	2.72%	4.23%	3.75%	• STRDX	1.67%	1.59%	5.10%	0.73%
• Benchmark	0.02%	-0.27%	0.88%	2.14%	3.57%	2.94%	• Benchmark	0.67%	0.62%	2.90%	3.15%
+/- Benchmark	0.46%	0.56%	0.53%	0.57%	0.66%	0.80%	+/- Benchmark	1.00%	0.97%	2.21%	-2.42%
Peer Group Rank	11	8	7	9	8	7					
							5-Year Quarterly				
Risk Statistics	3,	Year	5 \	/ear	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• STRDX	0.14%	2.19%	3.53%	3.23%
Alpha	0.57	0.00	0.42	0.00	0.53	0.00	• Benchmark	0.18%	2.27%	3.08%	2.94%
Beta	0.97	1.00	0.97	1.00	0.96	1.00	+/- Benchmark	-0.04%	-0.08%	0.45%	0.29%
Standard Deviation	6.00	5.85	5.13	5.09	4.11	4.11					
Sharpe Ratio	-0.46	-0.58	-0.14	-0.23	0.20	0.08	5-Year Quarterly				
Information Ratio	0.33	-	0.30	-	0.44	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	-3.01	-3.57	-0.90	-1.32	0.80	0.24	• STRDX	1.06%	0.24%	-0.15%	-1.40%
Upside Capture Ratio	110.83	100.00	105.94	100.00	105.19	100.00	Benchmark	1.64%	0.02%	-0.16%	-1.46%
Downside Capture Ratio	100.34	100.00	98.93	100.00	95.20	100.00	+/- Benchmark	-0.57%	0.22%	0.00%	0.06%
· · · · · · · · · · · · · · · · · · ·											

Sterling Capital Total Return Morningstar Quantitative **Bond R6 (USD) Neutral ^a** 12-31-2022 Overall Morningstar Rating™ 406 US Fund Intermediate Core Bond Standard Index Category Index Bloomberg US Bloomberg US Agg Agg Bond TR USD Bond TR USD Morningstar Cat J US Fund Intermediate Core Bond

Performance 01-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	-3.00	2.16	0.04	-0.26	-1.12
2022	-6.15	-4.69	-4.42	1.57	-13.15
2023					3.10
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-8.62	-1.76		1	1.31
Std 12-31-2022	-13.15				0.71
Total Return	-8.62	-1.76	1.25	1.93	1.31
+/- Std Index	-0.26	0.59	0.39	0.50	I
+/- Cat Index	-0.26	0.59	0.39	0.50	
% Rank Cat	50	17	14	7	
No. in Cat	453	406	373	276	
		Sı	Subsidized	Unsı	Unsubsidized

30-day SEC Yield 12-31-22 1. Contractual waiver; Expires 01-31-2024 7-day Yield 02-07-23 Subsidized 3.81 1 3.29

3.78

The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year Performance Disclosure

does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than (if applicable) Morningstar metrics.
The performance data quoted represents past performance and their original cost.

Cash

Asset Allocation % Portfolio Analysi

quoted herein. For performance data current to the most recent month-end, please call 800-228-1872 or visit Current performance may be lower or higher than return data

> Bonds US Stocks

Non-US Stocks

Other/Not Clsfd

www.sterlingcapitalfunds.com.				
Fees and Expenses				Equity Style
Sales Charges				Value Blend Growth
Front-End Load %			N	96Je
Deferred Load %			N	biM
Fund Expenses				llsm2
Management Fees %			0.25	
12b1 Expense %			0.00	Fixed-Income Style
Net Expense Ratio %			0.35	Ltd Mod Ext
Gross Expense Ratio %			0.48	цбі
Risk and Return Profile				paW
	3 Yr 406 funds 3	5 Yr 373 funds	10 Yr 276 funds	мод
Morningstar Rating™	4⋆	4 ☆	5₽	Credit Quality Breakd
Morningstar Risk	Avg	Avg	Avg	AAA
Morningstar Return	+Avg	+Avg	High	ÂA
	3 Yr	5Yr	10 Yr) A
Standard Deviation	6.16	5.29	4.22	BBB
Mean	-1.76	1.25	1.93	B B
Sharpe Ratio	-0.41	0.00	0.28	Below B
MPT Statistics	Standard Index	_	Best Fit Index Bloomberg US	NR
)		Universal TR USD	Regional Exposure
Alpha	0.52	2	0.31	Americas
Beta	0.97	7	0.98	Greater Europe
R-Squared	90.44	4	96.07	Greater Asia
12-Month Yield			2.89%	
Potential Cap Gains Exp			-19.17%	

97 98 — 100k 97 98 — 20k	No. of Funds in Cat	472	453	423	415	430		1		1	1	1	1
Inv Inv	% Rank Cat		40	23	10	17							
Inv Inv	+/- Category Index	0.03	-0.14	0.42	1.84	0.65	-0.28	0.79	1.10	-0.01	0.03	1.05	1.93
Inv Inv	+/- Standard Index	0.03	-0.14	0.42	1.84	0.65	-0.28	0.79	1.10	-0.01	0.03	1.05	1.93
100k	Total Return %	3.10	-13.15		9.35	9.37	-0.27	4.33	3.75	0.54	5.99	-0.97	6.14
Inv Inv Inv Inv Inv Inv Inv Inv Inv In	NAV/Price	9.44	9.18	10.87	11.35	10.82	10.22					1	
96 97 97 95 97 98 96 97 99 — Inv Box	History	01-23	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
96 97 97 95 97 98 96 96 97 98 — 100k 6n 60k 6n 6n 60k 6n 6n 60k 6n 6n 60k 6n 6n 60k 6n 6n 60k 6n	Performance Quartile (within category)												
	Investment Style Fixed-Income Bond % Growth of \$10,000 Sterling Capital Tot Bond R6 12,803 Category Average 12,063 Standard Index 11,932	100k 80k 60k 40k 20k	8 🖽	97	96	8 1	98	97	95 🛨	97	97	96	99

	KUUWII IZ-31-ZUZZ	12 21 2022		Avg Wtd Price	Avg Wtd Coupon	Avg Eff Duration	Avia Eff Maturity		\$mil	Gos Avia Mist Con	P/C Ratio I IM	P/E Ratio TTM	roniono stansnes	Postfolio Ctotistico	100.00	0.27	98.13	0.00	0.00	1.60	Net %	is 12-31-2022	
~ ·	D			88		-	_		1			1	Avg Index		100.00 (98.13 (Long % Sho		
20.00	66 46	ا د	د د	88.41	3.17	6	0 75 (I)	(I)	(I)	(I)			Cat E	<u>-</u>	0.00	0.00	0.00	0.00 ⊕	_	_	Short % Sh		
Consumer Cyclical	 Basic Materials 	y Cyclical	Sector Weightings) 11 mil) 10 mil) 12 mil) 12 mil) 13 mil) 11 mil) 14 mil	15 mil	16 mil) 16 mil	21 mil	21 mil	35 mil	51 mil) 106 mil	11-2022	since Amount	Share Chg Share		
Cyclical	rials		s							ıil Fnma Pass-Thru l			ıil Fnma Pass-Thru I								re Holdings:		
	I	1	Stocks %	Federal Home Loan Mortgage Corpora	Federal Home Loan Mortgage Corpora	Federal Home Loan Mortgage Corpora	13%	Federal National Mortgage Associat	Federal Home Loan Mortgage Corpora	_	ONEMAIN DIRECT AUTO RECEIVABLES TR	HERTZ VEHICLE FINANCING III LLC 1.	_	UNEMAIN FINANCIAL ISSUANCE IRUSI I	United States Treasury Notes 1.5%	United States Treasury Notes 2.625%	United States Treasury Bonds 2.5%	United States Treasury Bonds 1.375%		0 Total Stocks , 274 Total Fixed-Income,			
	I	1	Rel Std Index	0.97	0.98	0.98	1.00	1.01	1.03	1.21	1.30	1.33	1.44	1./2	1.80	3.14	3.78	5.78		%	Net Assets		

	Sector Weightings Stoc	——— 1y Cyclical	66.46 Basic Materials	8.48 Consumer Cyclical	12.58 Financial Services	12.40 🛍 Real Estate	0.06 v Sensitive	0.00 Communication Services	_	0.00 to Industrials	Technology	[
0	Stocks %	Ι	1	[1	I			1		I			
	Rel Std Index	ı	I	1			I		1			ı	1		

Rel St

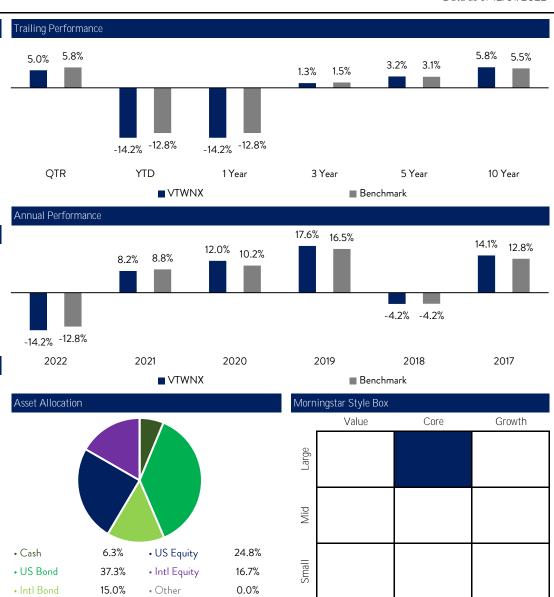
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separate agreement, you may use this report or mation of Morningstar, (2) may include, or be westment advice effected by Morningstar, (5) at westment advice effected by Morningstar stall no heavise required by leav, Morningstar stall no eas of the date written and are subject to cha e as of the date written and are subject to cha d with and governed by the U.S. Securities an Please see important disclosures at the end of Please see important disclosures at the end of	Ticker: STRDX ISIN: US8591 Minimum Initial Purchase: \$10 mil Min Auto Investment Plan: \$10 mil Purchase Constraints: A
nly in the country in which its origin derived from, account information p re provided solve for informational the responsible for any trailing dear ange without notice. Investment red d Exchange Commission. This report this report.	STRDX US85918D6242 \$10 mil \$10 mil A
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lyses and to the verified by the verified by sell a security, sell as the verified to this related to this related to the restellation ingstar, Inc.	02-01-2018 MF \$1,051.76 mil

Vanguard Target Retirement 2020 Fund VTWNX

Product Details	
Name	Vanguard Target Retirement 2020 Fund
Ticker	VTWNX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date 2020
Benchmark	S&P Target Date 2020 TR USD
Inception Date	6/7/2006
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	10.00 Years
Fund Size	\$41,566,872,499

Fund Characteristics	VTWNX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	=
Average Market Cap (mil)	\$60,514	-\$3,467
P/E Ratio (TTM)	15.65	0.05
P/B Ratio (TTM)	2.34	-0.05
Est. Dividend Yield	2.60%	0.02%

Sector Allocations	VTWNX	Category	+/- Category
Materials	5.0%	4.6%	0.4%
Communication Services	6.4%	6.2%	0.2%
Consumer Discretionary	10.3%	10.6%	-0.3%
Consumer Staples	7.4%	6.9%	0.5%
Healthcare	13.3%	13.3%	0.0%
Industrials	11.5%	10.7%	0.7%
Real Estate	3.5%	5.6%	-2.1%
Technology	17.9%	18.0%	-0.1%
Energy	5.4%	5.3%	0.0%
Financial Services	16.3%	15.7%	0.6%
Utilities	3.1%	3.1%	0.1%
Other	0.0%	0.0%	0.0%



Vanguard Target Retirement 2020 Fund VTWNX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VTWNX	4.97%	-14.15%	-14.15%	1.33%	3.22%	5.83%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	5.77%	-12.81%	-12.81%	1.49%	3.14%	5.50%	• VTWNX	4.97%	-5.12%	-9.20%	-5.06%
+/- Benchmark	-0.80%	-1.34%	-1.34%	-0.16%	0.08%	0.33%	• Benchmark	5.77%	-4.59%	-9.33%	-4.72%
Peer Group Rank	69	40	40	48	36	25	+/- Benchmark	-0.80%	-0.54%	0.13%	-0.35%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VTWNX	-14.15%	8.17%	12.04%	17.63%	-4.24%	14.08%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-12.81%	8.76%	10.24%	16.52%	-4.16%	12.80%	• VTWNX	2.91%	-0.41%	4.20%	1.28%
+/- Benchmark	-1.34%	-0.60%	1.80%	1.11%	-0.08%	1.28%	• Benchmark	3.42%	-0.24%	3.90%	1.46%
Peer Group Rank	40	73	45	37	41	25	+/- Benchmark	-0.51%	-0.18%	0.30%	-0.18%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VTWNX	3.22%	2.91%	4.64%	7.27%	9.26%	8.60%	• VTWNX	7.86%	4.48%	11.40%	-10.76%
• Benchmark	3.14%	2.64%	4.18%	6.78%	8.60%	7.98%	• Benchmark	7.37%	3.74%	10.65%	-10.55%
+/- Benchmark	0.08%	0.27%	0.46%	0.49%	0.67%	0.62%	+/- Benchmark	0.49%	0.74%	0.76%	-0.21%
Peer Group Rank	36	27	27	34	34	33					
							5-Year Quarterly				
Risk Statistics	3,	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VTWNX	4.46%	1.19%	3.21%	7.82%
Alpha	-0.16	0.00	0.05	0.00	0.20	0.00	 Benchmark 	4.19%	1.17%	2.88%	7.45%
Beta	1.03	1.00	1.03	1.00	1.03	1.00	+/- Benchmark	0.27%	0.02%	0.33%	0.38%
Standard Deviation	11.48	11.15	9.95	9.65	8.17	7.94					
Sharpe Ratio	0.10	0.11	0.23	0.23	0.63	0.61	5-Year Quarterly				
Information Ratio	-0.16	-	0.09	-	0.45	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	0.46	0.64	1.83	1.80	4.89	4.69	• VTWNX	-6.50%	2.36%	0.61%	-0.54%
Upside Capture Ratio	102.93	100.00	102.96	100.00	103.56	100.00	• Benchmark	-6.49%	2.33%	1.09%	-0.92%
Downside Capture Ratio	104.23	100.00	103.00	100.00	102.03	100.00	+/- Benchmark	-0.01%	0.02%	-0.48%	0.38%

2020	2020 Fund (USU) 02-24-2022 140 US Fund Target	▼ Silver ★★★★ Morningstar Mod Morning	Vanguard Tarnot Rotiromont Morningstar Analyst Rating M Overall Morningsta	neibase date 01-31-2023
	Date Tgt Risk TR USD	Morningstar Mo	r Rating™ Standard Index	
TR USD	Lifetime Mod 2020 2020	d Morningstar	Category Index	
	2020	US Fund Target-Date	Morningstar Cat	

01011111100	0.1010				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	1.28	4.20	-0.41	2.91	8.17
2022	-5.06	-9.20	-5.12	4.97	-14.15
2023					4.65
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-7.35	2.80	3.65	6.02	5.78
Std 12-31-2022	-14.15		3.22	5.83	5.52
Total Return	-7.35	2.80	3.65	6.02	5.78
+/- Std Index	-0.77	-1.06	-0.63	-0.06	1
+/- Cat Index	1.51	0.43	0.03	0.63	
% Rank Cat	52	72	49	27	
No. in Cat	150	140	121	55	
-		S	Subsidized	Unsu	Unsubsidized

Performance Disclosure
The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield 02-07-23 (if applicable) Morningstar metrics. 7-day Yield 2.53 2.53

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 sold or redeemed, may be worth more or less than their original cost.

Net Assets %

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 800-662-7447 or visit www.vanguard.com.

Deferred Load %	Front-End Load %	Sales Charges	Fees and Expenses
NA	NA		

Front-End Load % Deferred Load %	N N
Fund Expenses	
Management Fees %	0.00
12b1 Expense %	NA
Net Expense Ratio %	0.08
Gross Expense Ratio %	0.08
Risk and Return Profile	

Ci doo Expense indio /o			9
Risk and Return Profile			
	3 Yr	5Yr	10 Yr
	140 funds 1	121 funds	55 funds
Morningstar Rating™	3 ★	3 ⊁	4★
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5Yr	10 Yı
Standard Deviation	11.77	10.09	8.24
Mean	2.80	3.65	6.02
Sharpe Ratio	0.21	0.27	0.65
MPT Statistics	Standard Index		Best Fit Index Morningstar Gbl
Alpha	-0.68		Allocation IR USD 0.18
	9		9

:Charges t-End Load % :rred Load %			N N
Expenses			
agement Fees %			0.00
Expense %			NA
Expense Ratio %			0.08
s Expense Ratio %			0.08
and Return Profile			
	3 Yr	5Yr	10 Yr
Doting TM	140 tunds	121 tunds	55 funds
ingstar Kating	• ພ *	° 3' *	° 4 ★
iingstar Risk	Avg	Avg	Avg
ningstar Return	Avg	Avg	+Avg

Deletted Foad %			Ä		гвива
Fund Expenses					iM :
Management Fees %			0.00		ıs i
12b1 Expense %			NA		llen
Net Expense Ratio %			0.08	Fived-Incom	alut2 at
Gross Expense Ratio %			0.08	Ltd Mod Ext	Ext
Risk and Return Profile					lgiH
	3 Yr	5Yr	10 Yr		V .
		121 funds	55 funds		pay
Morningstar Rating™	3 ⊁	3 ⊁	4*		мοη
Morningstar Risk	Avg	Avg	Avg		
Morningstar Return	Avg	Avg	+Avg	Credit Quality Breal	ity Break
	3 Yr	5 Yr	10 Yr	^ AAA	
Standard Deviation	11.77	10.09	8.24	▶ }	
Mean	2.80	3.65	6.02	000	
Sharpe Ratio	0.21	0.27	0.65	88 8	
MPT Statistics	Standard Index	Bes	Best Fit Index	В	
		Mornii Allocatic	Morningstar Gbl Allocation TR USD	Below B	
Alpha	-0.68		0.18		
Beta	0.83		0.80	Regional Exposure	posure
R-Squared	98.84		98.96	Americas	
12-Month Yield			2.41%	Greater Europe	rope
Potential Cap Gains Exp			7.18%	Greater Asia	g.
Operations					
Family: Va	Vanguard			Base Currency:	incy:
Manager: M	Multiple			Ticker:	
Tenure: 10	10.0 Years			ISIN:	
>	A				-

208	36	-0.18	0.31	12.35	23.83	2012			1						జ		-
222	78	2.87	1.52	15.85	27.11	2013			1						36		
228	_	1.24	2.22	7.11	28.46	2014									38		
237	23	1.20	=======================================	-0.68	27.15	2015				}					40		_
221	29	-0.71	-1.62	6.95	28.26	2016									42		
234	17	1.29	-0.58	14.08	31.38	2017									\$		2020
250	42	-0.08	0.52	-4.24	28.63	2018									47		
233	28	-0.10	-1.39	17.63	32.53	2019					1				48		
178	46	-1.28	-0.78	12.04	34.29	2020				1					50		-
171	88	-0.87	-2.02	8.17	31.02	2021									2		•
150	39	2.62	0.62	-14.15	25.36	2022				1	***************************************				53		-
152	ı	-0.36	-0.83	4.65	26.54	01-23									52		TR USD
								<u>:</u> \$, 1		· 20k	ģ		: : 80 80 80 80 80 80 80 80 80 80 80 80 80	100k		JSD
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)		Standard Index 20,808	18,236	— Category Average	20.720 20.720	Vanguard Target Retir	Growth of \$10,000	Bond %	Investment Style Fixed-Income	

Portfolio Analysis 01-31-2023	is 01-31-2023				
Asset Allocation %	Net %	Long %	Short %	Share Chg Share	Holdings:
Cash	3.94	6.42	2.47	Amount	10,638 Total Stocks , 17,466 Total Fixed-Income,
US Stocks	25.40	25.40	0.00	12-2022	14% TUTIOVET DATIO
Non-US Stocks	17.08	17.08	0.00	⊕ 1,364 mil	Vanguard Total Bond Warket II Idx
Bonds	53.54	53.58	0.04	57 mil	57 mil Vanguard Total Stock Mkt Idx InstI
Other/Not Clsfd	0.03	0.03	0.00	① 400 mil	400 mil Vanguard Total Intl Stock Index Inv
Total	100.00	102.51	2.51	① 218 mil	218 mil Vanguard Total Intl Bd II ldx Insl 186 mil Vanguard Shrt-Term Infl-Prot Sec I
Equity Style	Portfolio Statistics		Rel		c
Value Blend Growth	P/E Ratio TTM	Avg Index 15.6 1.04	ex Cat 04 1.00	Sector Weightings	Stocks %
sige	P/C Ratio TTM	11.7 1.02	1.00	∿ Cyclical	35.1
P!W	P/B Ratio TTM	2.3 1.08	0.98	Basic Materials	ils 5.0
S	Avg Mkt Cap	60514 1.38	38 0.95	Consumer Cyclical	dical 10.3
ller	\$mil			Financial Services	rices 16.3
				Real Fetate	ω π

Mod Ext Mod Ext Mod Ext Mod Ext Mod Ext Mod Mod Ext Mod	Avg Eff Maturity Avg Eff Duration Avg Wtd Coupon Avg Wtd Price	7.67 5.96 2.14 92.76	
	Avg Eff Duration	5.96 2.14	≣ 0
p⊕M	Avg Wtd Price	92.76	⇔ 0
мод			
Quality Break	Quality Breakdown 12-31-2022	Bond %] ↓
		64.59	j
		7.96	
		14.23	
		12.55	
		0.00	
		0.00	
1			

1.05	7.4	Consumer Defensive	T Cons
1.06	23.8	Defensive	→ Defe
1.25	17.9	Technology	■ Tech
1.00	11.5	Industrials	indus
1.04	5.4	у	Energy
1.17	6.4	Communication Services	⊞ Comi
1.13	41.1	itive	✓ Sensitive
0.49	3.5	Real Estate	₽ Real
0.98	16.3	Financial Services	_
0.88	10.3	Consumer Cyclical	Cons
0.90	5.0	Basic Materials	
0.86	35.1	ical	Դ Cyclical
Rel Std Index	Stocks %	ightings	Sector Weightings
10.55	Vanguard Shrt-Term Infl-Prot Sec I	186 mil Vanguard	1
13.68	Vanguard Total Intl Bd II Idx Insl	218 mil Vanguard	⊕
17.39	Vanguard Total Intl Stock Index Inv	400 mil Vanguard	1
25.78	Vanguard Total Stock Mkt Idx Instl	57 mil Vanguard	1
31.64	Vanguard Total Bond Market II ldx	1,364 mil Vanguard	①
	er Ratio	14% Turnover Ratio	17-2022

1.00
1.25
1.06
1.05
1.10
0.91

	USD	Purchase Constraints:	
	VTWNX	Incept:	06-07-2006
	US92202E8057	Туре:	MF
Il Purchase: \$1,000	\$1,000	Total Assets:	\$41,566.87 mil

63.8 17.7 18.5

1.03 0.97 0.93

Rel Std Index

0.37

Objective:

Asset Allocation

Minimum Initial

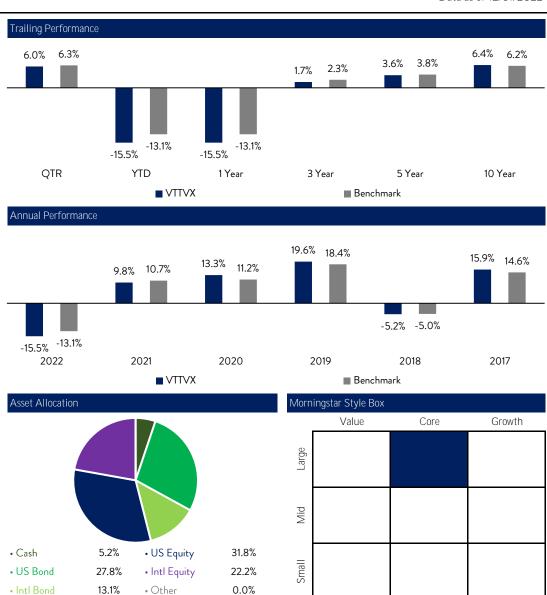
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Vanguard Target Retirement 2025 Fund VTTVX

Product Details	
Name	Vanguard Target Retirement 2025 Fund
Ticker	VTTVX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date 2025
Benchmark	S&P Target Date 2025 TR USD
Inception Date	10/27/2003
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	10.00 Years
Fund Size	\$75,189,920,903

Fund Characteristics	VTTVX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	=
Average Market Cap (mil)	\$59,800	-\$5,866
P/E Ratio (TTM)	15.59	0.03
P/B Ratio (TTM)	2.32	-0.06
Est. Dividend Yield	2.62%	0.01%

Sector Allocations	VTTVX	Category	+/- Category
Materials	5.1%	4.5%	0.5%
Communication Services	6.4%	6.2%	0.1%
Consumer Discretionary	10.3%	10.4%	-0.1%
Consumer Staples	7.4%	7.0%	0.4%
Healthcare	13.2%	13.4%	-0.2%
Industrials	11.5%	10.7%	0.8%
Real Estate	3.5%	5.5%	-2.0%
Technology	17.8%	18.1%	-0.3%
Energy	5.4%	5.3%	0.1%
Financial Services	16.3%	15.6%	0.8%
Utilities	3.1%	3.2%	-0.1%
Other	0.0%	0.0%	0.0%



Vanguard Target Retirement 2025 Fund VTTVX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VTTVX	6.03%	-15.55%	-15.55%	1.66%	3.58%	6.43%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	6.34%	-13.13%	-13.13%	2.26%	3.75%	6.23%	• VTTVX	6.03%	-5.59%	-10.72%	-5.51%
+/- Benchmark	-0.31%	-2.42%	-2.42%	-0.60%	-0.18%	0.20%	 Benchmark 	6.34%	-4.57%	-10.05%	-4.83%
Peer Group Rank	39	52	52	39	31	17	+/- Benchmark	-0.31%	-1.02%	-0.66%	-0.68%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VTTVX	-15.55%	9.80%	13.30%	19.63%	-5.15%	15.94%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-13.13%	10.67%	11.22%	18.38%	-5.02%	14.55%	• VTTVX	3.55%	-0.65%	4.79%	1.86%
+/- Benchmark	-2.42%	-0.87%	2.08%	1.25%	-0.13%	1.39%	• Benchmark	3.85%	-0.33%	4.43%	2.38%
Peer Group Rank	52	50	35	22	45	24	+/- Benchmark	-0.30%	-0.32%	0.35%	-0.52%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2020	1Q20
• VTTVX	3.58%	3.15%	5.07%	8.14%	10.35%	9.61%	• VTTVX	9.33%	5.17%	13.20%	-12.95%
• Benchmark	3.75%	3.24%	4.87%	7.71%	9.65%	9.01%	• Benchmark	9.01%	4.39%	12.25%	-12.93%
+/- Benchmark	-0.18%	-0.09%	0.20%	0.43%	0.70%	0.60%	+/- Benchmark	0.32%	0.77%	0.96%	-0.02%
Peer Group Rank	31	29	26	28	26	26					
							5-Year Quarterly				
Risk Statistics	3 \	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VTTVX	5.22%	1.10%	3.35%	8.82%
Alpha	-0.62	0.00	-0.25	0.00	-0.02	0.00	 Benchmark 	4.97%	1.04%	2.99%	8.37%
Beta	1.06	1.00	1.05	1.00	1.04	1.00	+/- Benchmark	0.25%	0.06%	0.36%	0.45%
Standard Deviation	13.38	12.59	11.61	11.00	9.43	9.00					
Sharpe Ratio	0.12	0.17	0.24	0.27	0.62	0.63	5-Year Quarterly				
Information Ratio	-0.45	-	-0.16	-	0.23	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	0.76	1.40	2.12	2.41	5.37	5.41	• VTTVX	-7.74%	2.76%	0.65%	-0.59%
Upside Capture Ratio	104.18	100.00	103.65	100.00	103.92	100.00	• Benchmark	-7.81%	2.72%	1.24%	-0.93%
Downside Capture Ratio	108.19	100.00	105.83	100.00	104.31	100.00	+/- Benchmark	0.07%	0.03%	-0.58%	0.34%

Vanguard Target Retirement	Morningstar Analyst Rating ^m Overall Morningstar Rating ^m Standard Index	™ Overall Morningstar Rating™		Category Index	Morningstar Cat
Valigual u l'algernement	Silver	***	Morningstar Mod	Morningstar	US Fund Target-Date
2025 Fund (USD)	02-24-2022	195 US Fund Target-Date	Tgt Risk TR USD Lifetin	Lifetime Mod 2025 2025	2025
		2025		TR USD	
Performance 01-31-2023				Investment Style	nt Style
Disertarly Batterns 1st Otr 2nd Otr 3rd Otr 4th Otr Total %	E		: E		
עטמורפווץ הפעורוג וצרעור צווע ענו אוע ענו אנורענו וטנמו 70 70	0 69 67 66 64	62 61 60 60	54 53	54 Stocks %	0^

Performance 01-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Qtr	Total %
2021	1.86	4.79	-0.65	3.55	9.80
2022		-10.72	-5.59	6.03	-15.55
2023			1		5.40
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-7.77	3.45	4.05	6.65	6.39
Std 12-31-2022	-15.55		3.58	6.43	6.13
Total Return	-7.77	3.45	4.05	6.65	6.39
+/- Std Index	-1.20	-0.41	-0.24	0.57	I
+/- Cat Index	1.32	0.76	0.25	0.65	
% Rank Cat	54	48	37	19	
No. in Cat	219	195	170	102	

Performance Disclosure
The Overall Morningstar flating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield 02-07-23 (if applicable) Morningstar metrics. 2.20 2.20

7-day Yield

Subsidized

Unsubsidized

13.59 13.29 1.25

-0.37

2012

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 sold or redeemed, may be worth more or less than their original cost.

Portfolio Analysis 01-31-2023

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 800-662-7447 or visit www.vanguard.com

Logo and Expenses	
Sales Charges	
Front-End Load %	N
Deferred Load %	NA
Fund Expenses	

		0.00
		NA
		0.08
		0.08
3 Υ	5Yr	10 Yr
195 funds	170 funds	102 funds
3 ★	3 ★	4★
Avg	Avg	Avg
Avg	Avg	+Avg
	3 Yr 195 funds 3 ★ Avg	170

		(openiord	Familia: Va
			Operations
9.02%			Potential Cap Gains Exp
2.08%			12-Month Yield
99.22		99.18	R-Squared
0.88		0.97	Beta
0.28		-0.33	Alpha
TR USD			
Lifetime Mod 2030	Lifetime		
Morningstar	Z		
Best Fit Index	Bes	Standard Index	MPT Statistics
0.0	0.20	0.2.0	ollaibe Hacio
0 64	000	35 U	Charpo Datio
6.65	4.05	3.45	Mean
9.51	11.77	13.71	Standard Deviation
10 Yr	5 Yr	3 Yr	

Below B NR

181	24	1.87	3.83	18.14	15.75	2013		69
185	4	1.13	2.28	7.17	16.53	2014		67
206	24	1.21	0.94	-0.85	15.62	2015		66
195	23	-0.91	-1.09	7.48	16.35	2016		64
208	21	1.40	1.28	15.94	18.50	2017		2025
226	42	-0.25	-0.39	-5.15	17.01	2018		62
232	22	0.26	0.60	19.63	19.84	2019		9 🖽
214	40	-0.37	0.47	13.30	21.54	2020		60
220	57	-0.30	-0.39	9.80	20.34	2021		& T
219	52	2.03	-0.77	-15.55	16.68	2022		53
221	1	-0.05	-0.09	5.40	17.58	01-23		TR USD 54 100k 80k 60k 40k 100k 100k 100k 100k 100k 100k 100
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)	Investment Style Equity Stocks % Growth of \$10,000 Vanguard Target Retirement 20,25 Fund 22,266 Category Average 20,137 Standard Index 20,808

ilems Geo	piw P/B	эбля Р/С				Total	Other/Not Clsfd	Bonds	Non-US Stocks	US Stocks	Cash	Asset Allocation %
\$mil	P/B Ratio TTM	P/C Ratio TTM	P/E Ratio TTM	Portfolio Statistics		100.00	0.03	41.74	22.63	32.45	3.14	Net %
59800 1.36			15.6 1.03			102 16	0.03	41.77	22.63	32.45	5.27	Long %
0.91				e Rel	!	2 16	0.00	0.03	0.00	0.00	2.13	Short %
finan	Basic	ÇVC	Sector We		①	⊕	①	±2	1	72077	12-2022	Share Chg

Fixed-Income Style	inco	me St	Ve		
Etd	Mod	Ē		Avg Eff Maturity	8.35
			Э!Н	Avg Eff Duration	6.42
			ųí	Avg Wtd Coupon	2.34
			baM	Avg Wtd Price	92.23
			мοη		
Credit	2	₹ B	reak	Credit Quality Breakdown 12-31-2022	Bond %
AAA					60.19
A					8.92
⊳					16.00
888					14.15
BB					0.00
В					0.00

n. Cyclical	Cat Sector W		⊕	216 ⊕	0.00	•	0 9 8 (1)	2.13 since 2.13 12-2022	nort % Share Chg	
2	Sector Weightings		108 mil	343 mil	960 mil	2,162 mil	133 mil	Amount	Share	
35.3	Stocks %	C	108 mil Vanguard Shrt-Term Infl-Prot Sec I	Vanguard Total Intl Bd II Idx Insl	Vanguard Total Intl Stock Index Inv	Vanguard Total Bond Market II ldx	Vanguard Total Stock Mkt Idx Instl	10,862 Total Stocks , 17,271 Total Hixed-Income, 14% Turnover Ratio	Holdings:	
980	Rel Std Index		3.40	11.88	23.05	27.72	32.93	%	Net Assets	

or Weightings	Stocks %	Rel Std Index
Cyclical	35.2	0.86
Basic Materials	5.1	0.91
Consumer Cyclical	10.3	0.89
Financial Services	16.3	0.98
Real Estate	3.5	0.49
Sensitive	41.1	1.13
Communication Services	6.4	1.17
Energy	5.4	1.04
Industrials	11.5	1.00
Technology	17.8	1.24
Defensive	23.8	1.05
Consumer Defensive	7.4	1.05
Healthcare	13.2	1.10
Utilities	3.1	0.91

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Manager: Tenure: Objective:

Multiple 10.0 Years Asset Allocation

Ticker:

Base Currency:

USD

Purchase Constraints:

10-27-2003 MF \$75,189.92 mil

ISIN:

VTTVX US92202E4098 \$1,000

Type: Total Assets: Incept:

Minimum Initial Purchase:

Family:

Vanguard

Greater Europe Greater Asia

Americas

Regional Exposure

Stocks %

Rel Std Index

0.41 0.34

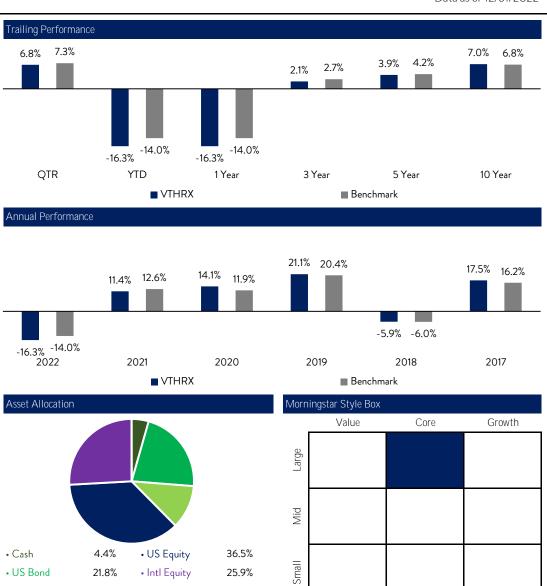
63.0 18.1 18.9

1.02 0.99 0.95

Product Details	
Name	Vanguard Target Retirement 2030 Fund
Ticker	VTHRX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date 2030
Benchmark	S&P Target Date 2030 TR USD
Inception Date	6/7/2006
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	10.00 Years
Fund Size	\$80,653,797,088

Fund Characteristics	VTHRX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	=
Average Market Cap (mil)	\$59,516	-\$9,413
P/E Ratio (TTM)	15.56	-0.32
P/B Ratio (TTM)	2.32	-0.18
Est. Dividend Yield	2.62%	0.12%

Sector Allocations	VTHRX	Category	+/- Category
Materials	5.1%	4.4%	0.6%
Communication Services	6.4%	6.3%	0.1%
Consumer Discretionary	10.3%	10.7%	-0.5%
Consumer Staples	7.4%	7.0%	0.4%
Healthcare	13.2%	13.8%	-0.7%
Industrials	11.5%	10.9%	0.6%
Real Estate	3.5%	4.1%	-0.6%
Technology	17.8%	18.6%	-0.8%
Energy	5.4%	5.2%	0.1%
Financial Services	16.3%	15.7%	0.6%
Utilities	3.1%	3.1%	0.0%
Other	0.0%	0.0%	0.0%



21.8%

11.3%

• Intl Equity

• Other

25.9%

0.0%

• US Bond

• Intl Bond

Vanguard Target Retirement 2030 Fund VTHRX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VTHRX	6.81%	-16.27%	-16.27%	2.09%	3.94%	6.99%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	7.27%	-13.96%	-13.96%	2.73%	4.17%	6.84%	VTHRX	6.81%	-5.93%	-11.67%	-5.65%
+/- Benchmark	-0.46%	-2.30%	-2.30%	-0.64%	-0.24%	0.15%	• Benchmark	7.27%	-4.98%	-11.21%	-4.93%
Peer Group Rank	39	47	47	45	39	26	+/- Benchmark	-0.46%	-0.95%	-0.45%	-0.72%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VTHRX	-16.27%	11.38%	14.10%	21.07%	-5.86%	17.52%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-13.96%	12.61%	11.91%	20.38%	-5.99%	16.19%	• VTHRX	4.06%	-0.78%	5.25%	2.49%
+/- Benchmark	-2.30%	-1.23%	2.19%	0.70%	0.14%	1.34%	• Benchmark	4.44%	-0.46%	4.92%	3.24%
Peer Group Rank	47	57	37	40	35	39	+/- Benchmark	-0.38%	-0.32%	0.33%	-0.75%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VTHRX	3.94%	3.43%	5.50%	8.85%	11.23%	10.44%	• VTHRX	10.52%	5.70%	14.58%	-14.76%
• Benchmark	4.17%	3.58%	5.39%	8.56%	10.63%	9.93%	Benchmark	10.52%	5.02%	13.94%	-15.38%
+/- Benchmark	-0.24%	-0.15%	0.11%	0.29%	0.60%	0.51%	+/- Benchmark	0.00%	0.68%	0.64%	0.62%
Peer Group Rank	39	37	39	37	39	38					
							5-Year Quarterly				
Risk Statistics	3 \	Year	5 `	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VTHRX	5.95%	0.89%	3.41%	9.54%
Alpha	-0.63	0.00	-0.25	0.00	0.05	0.00	• Benchmark	5.81%	0.88%	3.09%	9.39%
Beta	1.02	1.00	1.01	1.00	1.02	1.00	+/- Benchmark	0.14%	0.01%	0.31%	0.15%
Standard Deviation	14.76	14.40	12.85	12.64	10.42	10.21					
Sharpe Ratio	0.15	0.20	0.26	0.28	0.62	0.62	5-Year Quarterly				_
Information Ratio	-0.50	-	-0.22	-	0.16	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	1.21	1.88	2.56	2.83	6.06	6.02	• VTHRX	-8.86%	3.09%	0.78%	-0.56%
Upside Capture Ratio	100.88	100.00	100.30	100.00	101.96	100.00	• Benchmark	-9.26%	3.15%	1.40%	-0.95%
Downside Capture Ratio	104.27	100.00	101.85	100.00	101.83	100.00	+/- Benchmark	0.40%	-0.06%	-0.62%	0.38%

2030 Fund (USD) Vanguard Target Retirement

+/- Cat Index +/- Std Index Total Return Std 12-31-2022 Load-adj Mthly 2022 2021 Quarterly Returns No. in Cat % Rank Cat Trailing Returns Performance 01-31-2023 -16.27 1st Otr -5.65 -1.33 -7.90 -7.90 0.94 2.49 221 1 -11.67 2nd Otr 0.27 0.79 4.14 5.25 4.14 195 3 Υ 48 3rd Otr -5.93 -0.78 0.30 0.11 4.40 3.94 4.40 170 5 Yr 42 4th Otr 6.99 7.21 0.52 6.81 4.06 1.13 7.21 10 Y 96 27 -16.27 5.87 Total % 11.38 Incept 6.35 6.02

The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield 02-07-23 7-day Yield Performance Disclosure Subsidized 2.05 Unsubsidized 2.05

> -0.43 2.20

0.85 6.18

1.16 5 2.28

0.76 1.27 31

-0.72 -1.41

0.93 2.87

2.05 -0.17

1.28 0.41 8

> -0.31 1.19

-0.04 0.38

38

25

32

34

32

<u>5</u> 1.67 44 -1.49

% Rank Cat +/- Category Index +/- Standard Index

-0.03 37 -1.10

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and

(if applicable) Morningstar metrics.

Fees and Expenses month-end, please call 800-662-7447 or visit www.vanguard.com quoted herein. For performance data current to the most recent Current performance may be lower or higher than return data

	Risk and Return Profile
0.08	Gross Expense Ratio %
0.08	Net Expense Ratio %
NA	12b1 Expense %
0.00	Management Fees %
	Fund Expenses
NA	Deferred Load %
NA	Front-End Load %
	Sales Charges

7.70%			Potential Cap Gains Exp
1.93%			12-Month Yield
99.25	ω	99.23	R-Squared
0.87	7	1.07	Beta
0.12	O1	0.15	Alpha
TR USD			
Morningstar Lifetime Mod 2035	Lifetim		
Best Fit Index		Standard Index	MPT Statistics
0.64	0.29	0.28	Sharpe Ratio
7.21	4.40	4.14	Mean
10.51	13.01	15.11	Standard Deviation
10 Yr	5Yr	3 Yr	
+Avg	Avg	Avg	Morningstar Return
-Avg	Avg	Avg	Morningstar Risk
4★	3 ★	3 ★	Morningstar Rating [™]
96 funds	170 funds	195 funds 1	3
10 Yr	5Yr	3 Yr	
			Risk and Return Profile
0.08			Gross Expense Ratio %
0.08			Net Expense Ratio %
NA			12b1 Expense %

Below B

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78						2012	23.38	14.24
© Silver 02-24-2022		\		1		2013	27.64	20.49
ver 1022 74				ı	Ш	2014	29.04	7.17
73		\				2015	27.72	-1.03
71		1				2016	29.20	7.85
**** 195 US 2030 70						2017	33.63	17.52
**** 195 US Fund Target-Date 2030						2018	30.82	-5.86
rget-Dat		}				2019	36.45	21.07
88		1				2020	40.55	14.10
Tgt Risk						2021	38.42	14.10 11.38 -16.27
Morningstar Mod Tgt Risk TR USD ag						2022	31.37	-16.27
	, 6					01-23	33.21	5.87
JSD JSD JSD JSD JSD JSD JSD JSD JSD JSD		· 20k	: 10k					
i i i i i i i i i i i i i i i i i i i	Van 203	— Catego 21,396	Standa 20,808	Performa	(within category)	History	NAV/Price	Total Return %
r US Fund T ad 2030 2030 Investment Style Equity Equity Stocks % Growth of \$10,000 Vanguard Targer 2030 Fund 23,762 Category Average	guard Targer 0 Fund	Category Average 21,396	Standard Index 20,808	ince Ouartile	(within category)		Ф	urn %
US Fund Target-Date 2030 2030 sstment Style fit tit cks % wth of \$10,000 Vanguard Target Retirement 2030 Fund 23,762 Category Average Category Average	:Retirement	16						
1 1				- 1				

30 0	37.3	2	O Codinal	le,	Avg Inde				Victor Physics County	
Rel Std Index	Stocks %	ightings	Sector Weightings		Port Rel	istics	Portfolio Statistics	Po	ityle	Equity Style
10.27	318 mil Vanguard Total Intl Bd II ldx Insl	318 mil \	•	1.88	101.88	100.00	=			Total
24.19	2,024 mil Vanguard Total Bond Market II ldx	,024 mil \		0.00	0.04	0.04		đ	Other/Not Clsfo	Other/
26.83	1,198 mil Vanguard Total Intl Stock Index Inv	,198 mil \	①	0.03	33.78	33.75				Bonds
3/.//	Too mil vanguara Total Stock Ivikt Idx Insti	103 11111	•	0.00	26.34	26.34		S	Non-US Stocks	Non-U
27 77	Vice the state of	100	72077	0.00	37.22	37.22			cks	US Stocks
%	Amount 10,941 Lotal Stocks , 17,126 Lotal Fixed-Income,	Amount	12-2022	1.85	4.51	2.66				Cash
Net Assets	Holdings:	Share H	Share Chg	Short %	Long %	Net %		n %	Asset Allocation %	Asset A
							-31-2023	Portfolio Analysis 01-31-2023	lio Ana	Portfo
	٠						٠			
	222 228 237 221 234 239 241 224 221 221 224 No. of Funds in Cat	4 221	241 22	239	234	221	237	2 228		208

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come Style						
, ě		llema	3	biM	agrae	1
Avg Eff Maturity		\$mil	Geo Avg Mkt Cap	P/B Ratio TTM	P/C Ratio TTM	P/E Ratio TTM
			59516	2.3	11.6	15.6
			1.36	1.07	1.01	1.03
8.83 6.75			0.86	0.93	0.98	0.98
-	:1		=			

					_	Ξ.	1 1			_	_		유니
						it Quality Breakdown 12-31-2022	ΙI					-	d-Income Style
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0.00	0	15.28	17.28	9.62	\rightarrow	84	1		91.86	2.48	6.75	8.83	

23.7 7.4 13.2 3.1

1.05 1.05 1.09 0.91

Utilities Healthcare Consumer Defensive Defensive

Cred:

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17.8	Technology	91.86
11.5	Industrials	2.48
5.4	Energy	6.75
	Communication Services	8.83
41.0	₩ Sensitive	
3.5	★ Real Estate	
ces 16.3	Financial Services	0.86
	Consumer Cyclical	0.93
s 5.1	Basic Materials	0.98
35.2	∿ Cyclical	ာ တွေ ရ
Stocks %	Sector Weightings	윤
Vanguard Total Intl Bd II Idx Insl	⊕ 318 mil	1.88
Vanguard Total Bond Market II ldx	⊕ 2,024 mil	0.00
Vanguard Total Intl Stock Index Inv	① 1,198 mil	0.03
Vanguard Total Stock Mkt Idx Instl	⊕ 163 mil	0.00
11% Turnover Ratio	22) . 8
10,941 Total Stocks, 17,126 Total Fixed-Income,	since Amount	<u> </u>
Holdings:	Share Chg Share	ort %

USD VTHRX US92202E8883 \$1,000	62.7 18.2 19.1
Purchase Constraints: Incept: Type: Total Assets:	1.02 1.00 0.95
— 06-07-2006 MF \$80,653.80 mil	

Manager: Family:

Multiple 10.0 Years Asset Allocation

Ticker:

Base Currency:

Greater Asia

Greater Europe Americas Regional Exposure

Stocks %

Rel Std Index

0.44 0.36

ISIN:

Minimum Initial Purchase:

Vanguard

Operations

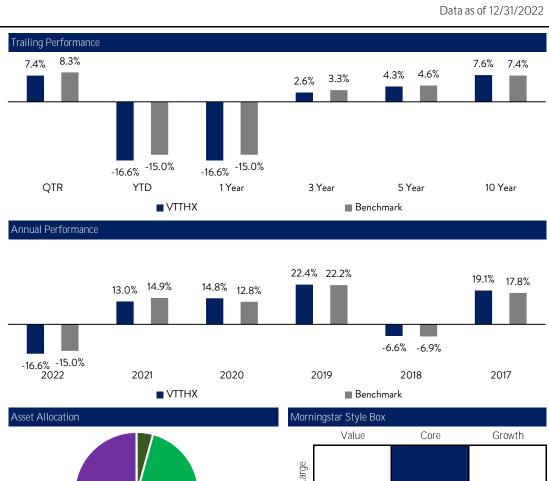
Tenure: Objective:

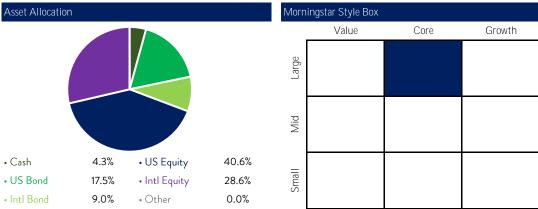
Vanguard Target Retirement 2035 Fund VTTHX

Product Details	
Name	Vanguard Target Retirement 2035 Fund
Ticker	VTTHX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date 2035
Benchmark	S&P Target Date 2035 TR USD
Inception Date	10/27/2003
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	10.00 Years
Fund Size	\$79,867,805,599

Fund Characteristics	VTTHX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	-
Average Market Cap (mil)	\$59,613	-\$5,424
P/E Ratio (TTM)	15.57	-0.09
P/B Ratio (TTM)	2.32	-0.09
Est. Dividend Yield	2.62%	0.08%

Sector Allocations	VTTHX	Category	+/- Category
Materials	5.1%	4.5%	0.5%
Communication Services	6.4%	6.3%	0.1%
Consumer Discretionary	10.3%	10.7%	-0.4%
Consumer Staples	7.4%	7.0%	0.4%
Healthcare	13.2%	13.8%	-0.6%
Industrials	11.5%	10.8%	0.7%
Real Estate	3.5%	4.3%	-0.8%
Technology	17.8%	18.4%	-0.6%
Energy	5.4%	5.2%	0.1%
Financial Services	16.3%	15.7%	0.6%
Utilities	3.1%	3.2%	0.0%
Other	0.0%	0.0%	0.0%





Vanguard Target Retirement 2035 Fund VTTHX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VTTHX	7.45%	-16.62%	-16.62%	2.64%	4.34%	7.57%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	8.31%	-14.99%	-14.99%	3.29%	4.63%	7.42%	• VTTHX	7.45%	-6.09%	-12.41%	-5.66%
+/- Benchmark	-0.86%	-1.63%	-1.63%	-0.65%	-0.29%	0.15%	 Benchmark 	8.31%	-5.50%	-12.55%	-5.02%
Peer Group Rank	61	38	38	52	42	29	+/- Benchmark	-0.86%	-0.59%	0.14%	-0.64%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VTTHX	-16.62%	12.96%	14.79%	22.44%	-6.58%	19.12%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-14.99%	14.93%	12.79%	22.18%	-6.88%	17.78%	• VTTHX	4.55%	-0.87%	5.65%	3.17%
+/- Benchmark	-1.63%	-1.96%	2.00%	0.26%	0.30%	1.35%	 Benchmark 	5.21%	-0.61%	5.45%	4.22%
Peer Group Rank	38	79	40	53	27	42	+/- Benchmark	-0.66%	-0.26%	0.20%	-1.05%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VTTHX	4.34%	3.78%	5.96%	9.57%	12.06%	11.24%	• VTTHX	11.62%	6.29%	15.90%	-16.52%
• Benchmark	4.63%	3.92%	5.92%	9.50%	11.67%	10.88%	• Benchmark	12.20%	5.70%	15.55%	-17.69%
+/- Benchmark	-0.29%	-0.14%	0.04%	0.08%	0.38%	0.36%	+/- Benchmark	-0.58%	0.58%	0.36%	1.18%
Peer Group Rank	42	39	41	43	45	43					
							5-Year Quarterly				
Risk Statistics	3,	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VTTHX	6.68%	0.70%	3.42%	10.20%
Alpha	-0.61	0.00	-0.22	0.00	0.19	0.00	 Benchmark 	6.61%	0.73%	3.18%	10.27%
Beta	0.98	1.00	0.98	1.00	0.99	1.00	+/- Benchmark	0.07%	-0.03%	0.24%	-0.07%
Standard Deviation	16.04	16.35	14.03	14.34	11.40	11.44					
Sharpe Ratio	0.19	0.23	0.28	0.29	0.63	0.61	5-Year Quarterly				
Information Ratio	-0.50	-	-0.25	-	0.15	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	1.82	2.44	3.07	3.28	6.80	6.60	• VTTHX	-9.93%	3.47%	0.83%	-0.58%
Upside Capture Ratio	96.77	100.00	96.98	100.00	100.50	100.00	• Benchmark	-10.55%	3.52%	1.52%	-0.94%
Downside Capture Ratio	99.37	100.00	97.86	100.00	99.62	100.00	+/- Benchmark	0.61%	-0.05%	-0.69%	0.36%

2035 Fund (USD) Vanguard Target Retirement 79 77 75 75 70 69 69 188 US Fund Target-Date 2035 Morningstar Mod Tgt Risk TR USD Standard Index Morningstar Lifetime Mod 2035 TR USD Category Index Morningstar Cat US Fund Target-Date 2035

Unsubsidized	Unsı	Subsidized	SL		7 JV:-11
	99	167	188	212	No. in Cat
	3	49	띪	37	% Rank Cat
1	0.45	0.27	0.61	0.27	+/- Cat Index
I	1.71	0.49	1.02	-1.20	+/- Std Index
7.13	7.79	4.78	4.89	-7.77	Total Return
6.83	7.57	4.34		-16.62	Std 12-31-2022
7.13	7.79	4.78	4.89	-7.77	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
6.20					2023
-16.62	7.45	-6.09	-12.41	-5.66	2022
12.96	4.55	-0.87	5.65	3.17	2021
Total %	4th Qtr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns
				-31-2023	Performance 01-31-2023

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.

30-day SEC Yield 02-07-23

2.06

2.06

7-day Yield

does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than The performance data quoted represents past performance and

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 800-662-7447 or visit www.vanguard.com

Fund Expenses			
Management Fees %			0.00
12b1 Expense %			K
Net Expense Ratio %			0.08
Gross Expense Ratio %			0.08
Risk and Return Profile			
	3 Yr	5Yr	10 Yr
!	188 funds	167 funds	99 funds
Morningstar Rating [™]	3 ★	3 ⊁	4⊁
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	16.39	14.18	11.48
			1

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		-	
		Vanguard	Family: Va
			Operations
10.78%			Potential Cap Gains Exp
1.95%			12-Month Yield
99.37		99.12	R-Squared
0.95		1.16	Beta
0.69		0.72	Alpha
TR USD			
Morningstar Lifetime Mod 2035	Lifetim		
Best Fit Index	. B	Standard Index	MPT Statistics
0.64	0.30	0.32	Sharpe Ratio
7.79	4.78	4.89	Mean
11.48	14.18	16.39	Standard Deviation
10 Yr	5 Yr	3 Yr	
+Avg	Avg	Avg	Morningstar Return
-Avg	-Avg	-Avg	Morningstar Risk
4★	3 ★	3 ★	Morningstar Rating [™]
99 funds	167 funds	188 funds 16	!

								_					
:	88	88	81	81	79	77	75	75	75	70	69	69 100k	Investment Style Equity Stocks %
1 1 1												80k 40k	Growth of \$10,000 Vanguard Target Retirement 2035 Fund 25,370
i. :	\		\	}	1		\		1	\\ \	- {	20k	Category Average23,493Standard Index
:												 4k g	20,808
													Performance Quartile (within category)
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	01-23	History
	14.09	16.98	17.84	16.84	17.74	20.69	18.82	22.52	25.22	23.84	19.35	20.55	NAV/Price
	15.16	22.82	7.24	-1.26	8.26	19.12	-6.58	22.44	14.79	12.96 2 77	-16.62 -1 85	6.20 0.72	Total Return %
	-0.20	0.79	1.44	1.32	-1.80	0.60	0.24	-0.60	1.41	-0.67	1.13	-0.17	+/- Category Index
	40	23	1 0	37	32	ဒ္ဌ	32	42	చి	79	37	1	% Rank Cat
	154	181	185	205	195	208	221	229	207	213	212	220	No. of Funds in Cat
		•											

Portfolio Analysis 01-31-2023			6	Share	Holdings ·	Net Assets
Asset Allocation % Cash	Net % 2.87		Short % 1.47	Share Chg Share since Amount	Holdings: 11,017 Total Stocks, 16,819 Total Fixed-Income, 9%, Turnovar Batio	Net Assets %
US Stocks	41.23	41.23	0.00		5% Fullover nauo	
Non-US Stocks	29.03	29.03	0.00	⊕ 1/9 mil	Vanguard Total Stock Wikt Idx Insti	41.84
Bonds	26.84	26.86	0.02	① 1,308 mil	Vanguard Total Intl Stock Index Inv	29.57
Other/Not Clsfd	0.04	0.04	0.00	⊕ 1,598 mil	Vanguard Total Bond Market II ldx	19.29
Total	100.00	101.49	1.49	→ 248 mil	248 mil Vanguard Total Intl Bd II Idx Insl	8.11
Equity Style	Portfolio Statistics	- 1	₽ Be	Sector Weightings	Stocks %	Rel Std Index
Value Blend Growth	P/E Ratio TTM	Avg Index 15.6 1.03	0.99 0.99	∿ Cyclical	35.2	0.86
редер	P/C Ratio TTM	11.6 1.01	1.00	Basic Materials		0.91
biM		2.3 1.07	0.96	Consumer Cyclical	ical 10.3	0.89
llsm2	\$mil		0.52	Real Estate		0.49
Fixed-Income Style				₩ Sensitive	41.0	1.13
Taca Income orgic	Ava Eff Maturity		9	Communication Services	n Services 6.4	1 17

	Cual				Mod	-incoi
	ity Br				Ext	Income Style
	eakd	γoη	baM	ИgiH		
	t Quality Breakdown 12-31-2022		Avg Wtd Price	Avg Wtd Coupon	Avg Eff Maturity	
57.11 9.58 17.24	Bond %		91.86	2.48	6 .83 6 .83	

AVG WIGHTICE	91.00
мор	
Credit Quality Breakdown 12-31-2022	Bond %
	57.11
	9.58
	17.24
	15.27
	0.00
	0.00
	0.44
	0.36
Regional Exposure Stocks %	Rel Std Index
62.8	1.02
18.2	0.99
19.0	0.95
	9 : : : : : : : : : : : : : : : : : :

Cyclical	35.2	0.86
Basic Materials	5.1	0.91
Consumer Cyclical	10.3	0.89
Financial Services	16.3	0.99
Real Estate	3.5	0.49
Sensitive	41.0	1.13
Communication Services	6.4	1.17
Energy	5.4	1.04
Industrials	11.5	1.00
Technology	17.8	1.24
Defensive	23.7	1.05
Consumer Defensive	7.4	1.05
Healthcare	13.2	1.10
Utilities	3.1	0.91
	Cyclical Basic Materials Consumer Cyclical Financial Services Real Estate Sensitive Communication Services Energy Industrials Technology Defensive Consumer Defensive Healthcare Utilities	terials r Cyclical Services te cation Services s cation Services r Defensive re

yses and t be verified by rel a security, related to, this orningstar, Inc. ust be preceded	al distributor is based. The information, data, ana rovided by your financial professional which cann purposes and and are drefter are not en offer to buy or search is produced and issued by subsidiaries of ly t is supplemental sales literature. If applicable it it	ly in the country in which its origine enved from, account information prepared to a provided salely for informational planes or a provided salely for informational planes or a provided proposable for any trading decing without notice. Investment response between the seport.	©2023 Momingstar. All Rights Reserved. Unless otherwise provided in a separate agreement, you may use this report only in the country in which its original distributor is based. The information, data, analyses and opinions contained herein (1) include the confidential and proprietary information of Momingstar, (2) may include, or be derived from, account information provided by your financial professional which cannot be verified by Momingstar (3) may not be copied or redistributed, 4) do not constitute investment advice offered by Mortingstar (5) are provided solely for informational purposes and therefore are not an offer to buy or sel a security, and (6) are not warranted to be correct, complete or countee Exercise as otherwise sequined by the work formation, data, analyses or opinions or other loss expressed are as of the date written and are subject to change without notice. Investment research is produced and issued by subsidiaries of Momingstar Research Services LLC, registered with and governed by the U.S. Securities and Exchange Commission. This report is supplemental sales iterature. If applicable it must be preseded and continued to many analysis of complete the analysis of complete the properties of momental programments and analysis of the production of the programment of the properties of momental programments and analysis of the production of the programment of the properties of momental programments and are subject to change without notice. Investment research is produced and issued by subsidiaries of Momingstar Research is produced and issued by a subsidiaries of Momingstar Research is produced and issued by a subsidiaries of Momingstar Research is produced and issued by a subsidiaries of Momingstar Research is produced and issued by a subsidiaries of Momingstar Research is produced and issued by a subsidiaries of Momingstar Research is produced and issued by a subsidiaries of Momingstar Research is produced and issued by a subsidiaries of Momingstar Research is produced and issued by a subsidi	Il Rights Reserved Unless otherwise provided in Il Rights Reserved Unless otherwise provided in Il Il Include the confidential and proprietary. In the copied or redistributed, (4) do not constitute du be correct, complete or accurate. Except yes or optimitis or their use. Opinions out press yet optimitis out their use. Opinions out express at to, Morningstar Research Services LLC, region and tisclosure statem	©2023 Morningstar. Al opinions contained her opinions contained her Morningstar. (3) may no and (6) are not warrante information, data, analy including, but not limite or accompanied by a pri
WH \$79,867.81 mil	Total Assets:	US9Z20ZE5087 \$1,000	ISIN: Minimum Initial Purchase:	10.0 Years Asset Allocation	lenure: Objective:
10-27-200	Incept:	VITHX	Ticker:	Multiple	Manager:

10-27-2003 MF

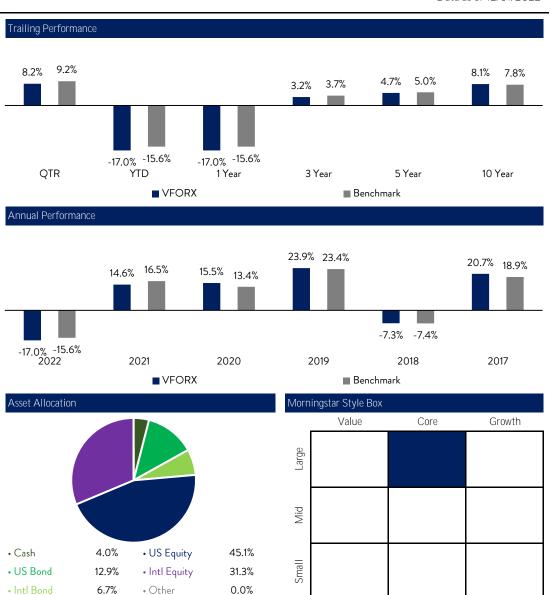
Purchase Constraints:

Base Currency:

Product Details	
Name	Vanguard Target Retirement 2040 Fund
Ticker	VFORX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date 2040
Benchmark	S&P Target Date 2040 TR USD
Inception Date	6/7/2006
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	10.00 Years
Fund Size	\$69,412,078,108

Fund Characteristics	VFORX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	-
Average Market Cap (mil)	\$59,895	-\$2,862
P/E Ratio (TTM)	15.60	0.09
P/B Ratio (TTM)	2.32	-0.07
Est. Dividend Yield	2.61%	0.05%

Sector Allocations	VFORX	Category	+/- Category
Materials	5.0%	4.5%	0.5%
Communication Services	6.4%	6.2%	0.1%
Consumer Discretionary	10.3%	10.7%	-0.4%
Consumer Staples	7.4%	7.0%	0.4%
Healthcare	13.2%	13.5%	-0.3%
Industrials	11.5%	10.9%	0.6%
Real Estate	3.5%	4.6%	-1.1%
Technology	17.8%	18.3%	-0.5%
Energy	5.4%	5.3%	0.1%
Financial Services	16.3%	15.8%	0.5%
Utilities	3.1%	3.1%	0.1%
Other	0.0%	0.0%	0.0%



Vanguard Target Retirement 2040 Fund VFORX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VFORX	8.20%	-16.98%	-16.98%	3.17%	4.74%	8.06%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	9.17%	-15.56%	-15.56%	3.72%	4.97%	7.84%	• VFORX	8.20%	-6.33%	-13.17%	-5.66%
+/- Benchmark	-0.97%	-1.42%	-1.42%	-0.55%	-0.23%	0.22%	 Benchmark 	9.17%	-5.83%	-13.50%	-5.03%
Peer Group Rank	63	34	34	49	40	23	+/- Benchmark	-0.97%	-0.50%	0.34%	-0.63%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VFORX	-16.98%	14.56%	15.47%	23.86%	-7.32%	20.71%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-15.56%	16.55%	13.37%	23.37%	-7.41%	18.87%	• VFORX	5.02%	-0.98%	6.11%	3.82%
+/- Benchmark	-1.42%	-1.99%	2.11%	0.49%	0.08%	1.84%	• Benchmark	5.73%	-0.70%	5.79%	4.93%
Peer Group Rank	34	80	43	53	32	31	+/- Benchmark	-0.71%	-0.29%	0.33%	-1.11%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VFORX	4.74%	4.11%	6.42%	10.28%	12.88%	12.03%	• VFORX	12.76%	6.80%	17.29%	-18.25%
• Benchmark	4.97%	4.16%	6.30%	10.15%	12.40%	11.54%	• Benchmark	13.36%	6.14%	16.66%	-19.24%
+/- Benchmark	-0.23%	-0.05%	0.13%	0.13%	0.48%	0.49%	+/- Benchmark	-0.60%	0.65%	0.62%	0.99%
Peer Group Rank	40	34	35	39	42	40					
							5-Year Quarterly				
Risk Statistics	3,	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VFORX	7.38%	0.49%	3.46%	10.96%
Alpha	-0.49	0.00	-0.17	0.00	0.21	0.00	 Benchmark 	7.15%	0.60%	3.27%	10.82%
Beta	0.98	1.00	0.98	1.00	1.00	1.00	+/- Benchmark	0.22%	-0.11%	0.19%	0.13%
Standard Deviation	17.33	17.70	15.22	15.48	12.34	12.29					
Sharpe Ratio	0.22	0.24	0.29	0.30	0.62	0.61	5-Year Quarterly				
Information Ratio	-0.40	-	-0.20	-	0.20	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	2.37	2.86	3.47	3.63	7.24	7.02	• VFORX	-11.03%	3.79%	0.90%	-0.53%
Upside Capture Ratio	97.06	100.00	97.89	100.00	101.61	100.00	Benchmark	-11.33%	3.72%	1.64%	-0.94%
Downside Capture Ratio	98.99	100.00	98.58	100.00	100.94	100.00	+/- Benchmark	0.30%	0.07%	-0.74%	0.41%

Morningstar Analyst Rating™ Overall Morningstar Rating™ Standard Index Category Index Morningstar Cat § Silver ★★★★ Morningstar Mod Morningstar US Fund Target-Date ©2-24-2022 189 US Fund Target-Date Tgt Risk TR USD TR USD TR USD TR USD TR USD TR USD TR USD
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Performance 01-31-2023	-31-2023					
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Otr	Total %	
2021	3.82	6.11	-0.98	5.02	14.56	
2022	-5.66	-13.17	-6.33	8.20	-16.98	
2023	I	I	I	I	6.53	
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept	
Load-adj Mthly	-7.69	5.64	5.14	8.28	6.96	
Std 12-31-2022	-16.98	1	4.74	8.06	6.59	
Total Return	-7.69	5.64	5.14	8.28	6.96	
+/- Std Index	-1.12	1.77	0.86	2.20	I	
+/- Cat Index	-0.60	0.46	0.25	0.51		
% Rank Cat	41	85	46	27		
No. in Cat	216	189	170	96		

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.

30-day SEC Yield 02-07-23

7-day Yield

Subsidized 2.07

Unsubsidized 2.07

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and

Fees and Expenses month-end, please call 800-662-7447 or visit www.vanguard.com. quoted herein. For performance data current to the most recent Current performance may be lower or higher than return data

Sales Charges Front-End Load % Deferred Load %	N N
Fund Expenses	
Management Fees %	0.00

Fund Expenses			
Management Fees %			0.00
12b1 Expense %			NA
Net Expense Ratio %			0.08
Gross Expense Ratio %			0.08
Risk and Return Profile			
	3 ¥r	5Yr	10 Yr
	189 funds	170 funds	96 funds
Morningstar Rating™	3 ★	3 ★	4★
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	17.67	15.35	12.42

		5 Yr	10 Yr
	189 funds	170 funds	96 funds
Morningstar Rating™	3 ⊁	3 ⊁	4*
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	17.67	15.35	12.42
Mean	5.64	5.14	8.28
Sharpe Ratio	0.35	0.31	0.64
MPT Statistics	Standard Index		Best Fit Index MSCI ACWI NR
			USD
Alpha	1.32	2	-0.57
Beta	1.25	G	0.86
R-Squared	98.89	9	99.43
12-Month Yield			1.96%
Potential Cap Gains Exp			10.64%
Operations			
Family: Va	Vanguard		
	A		

BB BB

Below B NR

204 218 227 237	31 15 12 43	-0.15 1.32 1.63 1.25 -	3.52 10.07 2.26 0.21	15.56 24.37 7.15 -1.59	23.18 28.32 29.76 28.45 3	2012 2013 2014 2015								89 89 88 88		02-24-2022
221 234	27 25	-1.88 0.84	0.16 6.05	8.73 20.71	30.21 35.77	2016 2017								86 84		2040
239	37	0.33	-2.57	-7.32	32.31	2018								83		2040
241	43	-0.49	4.83	23.86	39.13	2019								82		iger-pare
218	40	2.38	2.65	15.47	44.27	2020					_			83		
215	<u>~</u>	-0.80	4.37	14.56	42.03	2021								76		i geniak in oad
216	ജ	0.39	-2.20	-16.98	34.00	2022				_{<				76		
218	1	-0.25	1.04	6.53	36.22	01-23		4k	10k	20k	ģ	60k	100k 80k	76		TR USD
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)		— Standard Index 20,808	— Category Average 24,061	2040 Fund 26,714	Vanguard Target Retirement	Growth of \$10,000	Stocks %	Investment Style	TR USD

Portfolio Analysis 01-31-2023 Asset Allocation % Cash US Stocks Non-US Stocks Bonds Other/Not Cisfd Total Portfolio Stocks Bonds Other Portfolio Stocks	Net % 2.93 45.58 31.63 19.82 0.04 100.00 100	.04 .03 .03	Short % 1.11 0.00 0.00 0.00 1.13		Share Holdings: Amount 11,065 Total Stocks , 16,245 Total Fixed-Income, 7% Tumover Ratio 172 mil Vanguard Total Stock Mikt Idx Instl ,239 mil Vanguard Total Intl Stock Index Inv ,025 mil Vanguard Total Bond Market II Idx 160 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Bd III Idx Insl 180 mil Vanguard Total Intl Idx Insl Intl Idx Insl Intl Intl Intl Intl Intl Intl Intl Int	Net Assets % 46.25 32.21 14.22 6.02
Other/Not Clsfd	0.04	0.04	0.00	⊕ 1,025 mil	Vanguard Total Bond Market II ldx	14.22
Total	100.00	101.13	1.13	⊕ 160 mil	Vanguard Total Intl Bd II ldx Insl	6.02
Equity Style	Portfolio Statistics		Rel	Sector Weightings	Stocks %	Rel Std Index
Value Blend Growth	P/F Ratio TTM	Avg Index 15.6 1.03	1 01 2	Դ Cyclical	35.2	0.86
эблед	P/C Ratio TTM	11.6 1.02	1.01	Basic Materials		0.91
PIW	P/B Ratio TTM	2.3 1.07	0.97	Consumer Cyclica	lical 10.3	0.89
S	Avg Mkt Cap	59895 1.36	0.95	Financial Services	ices 16.3	0.98
llem	\$mil			★ Real Estate	3.5	0.49
				:		

Fixed-Income Style	-inco	me Si	E		
Гtd	Mod	Ē		Avg Eff Maturity	8.83
			giH	Avg Eff Duration	6.75
			ųf	Ava Wtd Coupon	2.48
			baM	Avg Wtd Price	1
			γюη		
			'		
Credi	t Qua	lity B	reak	Credit Quality Breakdown 12-31-2022	Bond %
A					57.05
₽					9.61
Þ					17.27
888					15.28

(Agridance Local Inc. Occ.	or mack me	7.70
⊕	1,025 mil	Vanguard Total Bond N	∕larket II ldx	14.22
•	160 mil	Vanguard Total Intl Bd	ll ldx Insl	6.02
Sector	Weightings		Stocks %	Rel Std Index
ن څ	yclical		35.2	0.86
₽ B	asic Materia	S	5.0	0.91
)	onsumer Cyc	lical	10.3	0.89
1 .	nancial Servi	ices	16.3	0.98
E B	eal Estate		3.5	0.49
₹ S	ensitive		41.1	1.13
	ommunicatio	n Services	6.4	1.17
<u> </u>	nergy		5.4	1.04
⊙ =	dustrials		11.5	1.00
	echnology		17.8	1.24
ţ	efensive		23.8	1.05
II C	onsumer Def	ensive	7.4	1.05
□ ±	ealthcare		13.2	1.10
	tilities		3.1	0.91
		1,025 mil 160	efe ior vicinity	I Vanguard Total Intl Bd II Idx Storices ion Services efensive

\$1,000	US92202E8701	VFORX	USD
Total Assets:	Туре:	Incept:	Purchase Constraints:
\$69,412.08 mil	MF	06-07-2006	

Manager: Tenure:

> Multiple Vanguard

Ticker:

Base Currency:

ISIN:

Minimum Initial Purchase:

Greater Europe Greater Asia

63.1 18.0 18.9

1.02 0.98 0.94

Rel Std Index

0.44 0.36 0.00

Americas Regional Exposure

Objective:

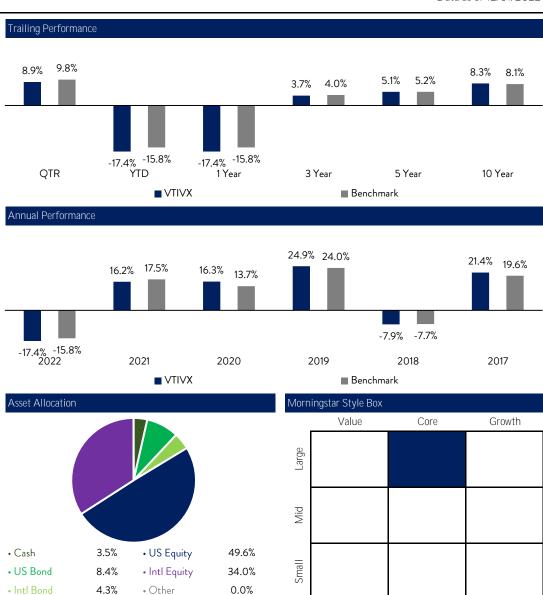
Asset Allocation 10.0 Years

Vanguard Target Retirement 2045 Fund VTIVX

Product Details	
Name	Vanguard Target Retirement 2045 Fund
Ticker	VTIVX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date 2045
Benchmark	S&P Target Date 2045 TR USD
Inception Date	10/27/2003
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	10.00 Years
Fund Size	\$65,129,796,881

Fund Characteristics	VTIVX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	=
Average Market Cap (mil)	\$60,110	-\$2,169
P/E Ratio (TTM)	15.61	0.10
P/B Ratio (TTM)	2.33	-0.05
Est. Dividend Yield	2.61%	0.05%

Sector Allocations	VTIVX	Category	+/- Category
Materials	5.0%	4.6%	0.5%
Communication Services	6.4%	6.2%	0.1%
Consumer Discretionary	10.3%	10.8%	-0.5%
Consumer Staples	7.4%	7.0%	0.4%
Healthcare	13.2%	13.7%	-0.4%
Industrials	11.5%	10.9%	0.6%
Real Estate	3.5%	4.5%	-1.0%
Technology	17.9%	18.2%	-0.3%
Energy	5.4%	5.2%	0.1%
Financial Services	16.3%	15.7%	0.5%
Utilities	3.1%	3.1%	0.0%
Other	0.0%	0.0%	0.0%



Vanguard Target Retirement 2045 Fund VTIVX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VTIVX	8.89%	-17.36%	-17.36%	3.74%	5.14%	8.34%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	9.77%	-15.84%	-15.84%	3.98%	5.16%	8.11%	• VTIVX	8.89%	-6.51%	-13.93%	-5.67%
+/- Benchmark	-0.88%	-1.52%	-1.52%	-0.24%	-0.02%	0.23%	 Benchmark 	9.77%	-6.01%	-14.12%	-5.02%
Peer Group Rank	53	31	31	32	27	19	+/- Benchmark	-0.88%	-0.50%	0.19%	-0.65%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VTIVX	-17.36%	16.16%	16.30%	24.94%	-7.90%	21.42%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-15.84%	17.51%	13.66%	24.02%	-7.74%	19.56%	• VTIVX	5.49%	-1.08%	6.55%	4.47%
+/- Benchmark	-1.52%	-1.36%	2.64%	0.92%	-0.15%	1.86%	• Benchmark	6.04%	-0.75%	6.00%	5.33%
Peer Group Rank	31	66	37	41	38	24	+/- Benchmark	-0.55%	-0.33%	0.55%	-0.86%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VTIVX	5.14%	4.42%	6.80%	10.89%	13.55%	12.62%	• VTIVX	13.90%	7.36%	18.70%	-19.88%
• Benchmark	5.16%	4.27%	6.47%	10.51%	12.81%	11.93%	• Benchmark	14.02%	6.44%	17.29%	-20.15%
+/- Benchmark	-0.02%	0.15%	0.33%	0.38%	0.73%	0.69%	+/- Benchmark	-0.12%	0.93%	1.40%	0.28%
Peer Group Rank	27	24	23	30	35	32					
							5-Year Quarterly				
Risk Statistics	3 \	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VTIVX	8.00%	0.26%	3.51%	11.48%
Alpha	-0.23	0.00	-0.04	0.00	0.13	0.00	 Benchmark 	7.48%	0.53%	3.32%	11.10%
Beta	1.00	1.00	1.01	1.00	1.01	1.00	+/- Benchmark	0.52%	-0.28%	0.19%	0.38%
Standard Deviation	18.64	18.52	16.33	16.17	13.04	12.83					
Sharpe Ratio	0.24	0.26	0.31	0.31	0.62	0.61	5-Year Quarterly				
Information Ratio	-0.17	-	-0.02	-	0.22	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	2.88	3.12	3.77	3.82	7.42	7.30	• VTIVX	-11.78%	4.03%	0.94%	-0.58%
Upside Capture Ratio	100.44	100.00	100.96	100.00	102.18	100.00	• Benchmark	-11.75%	3.81%	1.66%	-0.94%
Downside Capture Ratio	101.42	100.00	101.28	100.00	101.81	100.00	+/- Benchmark	-0.03%	0.22%	-0.72%	0.36%

Performance 01-31-2023	2045 Fund (USD) **** 2045 Fund (USD) ****	Vanguard Target Retirement	
	Silver 02-24-2022	▶ Morningstar Analyst Rating [™] Overall Morningstar Rating [™] Standard Index	
	**** 188 US Fund Target-Date 2045	™ Overall Morningstar Rating™	
	Morningstar Mod Morn Tgt Risk TR USD Lifet TR U	[™] Standard Index	
■ Investme	ningstar ime Mod 2045 ISD	Category Index	
nt Style	US Fund Target-Date 2045	Morningstar Cat	

88

Unsubsidized	Unsu	Subsidized	S		
	99	167	188	212	No. in Cat
	19	39	39	37	% Rank Cat
	0.65	0.43	0.65	-1.22	+/- Cat Index
I	2.52	1.28	2.56	-1.03	+/- Std Index
7.74	8.60	5.56	6.43	-7.60	Total Return
7.40	8.34	5.14		-17.36	Std 12-31-2022
7.74	8.60	5.56	6.43	-7.60	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
6.88					2023
-17.36	8.89	-6.51	-13.93	-5.67	2022
16.16	5.49	-1.08	6.55	4.47	2021
Total %	4th Otr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns

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 Disclosure

30-day SEC Yield 02-07-23

2.07

2.07

3.54

-0.26

145 43 15.58 14.55 2012

7-day Yield

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and

month-end, please call 800-662-7447 or visit www.vanguard.com quoted herein. For performance data current to the most recent Current performance may be lower or higher than return data

Deferred Load %	Front-End Load %	Sales Charges	Fees and Expenses
N	N		

Detetted Foat %			3
Fund Expenses			
Management Fees %			0.00
12b1 Expense %			NA
Net Expense Ratio %			0.08
Gross Expense Ratio %			0.08
Risk and Return Profile			
	3 Yr	5 Yr	10 Yr
Morningstor Boting TM	ه ا	ء ا	1
Morningstar Risk	^	^	- / / /
Morningo Car Tillox	9	9	Bay,
Morningstar Return	Avg	Avg	+Avg
	د ,> د	л <,	10 V

Risk and Return Profile			
	3 Yr	5Yr	10 Yr
	188 funds	167 funds	99 funds
Morningstar Rating™	3 ★	3 ★	4*
Morningstar Risk	Avg	Avg	-Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5Yr	10 Yr
Standard Deviation	18.98	16.47	13.14
Mean	6.43	5.56	8.60
Sharpe Ratio	0.37	0.33	0.63
MPT Statistics	Standard Index	s	Best Fit Index MSCI ACWI NR
		i	OSD
Alpha	1.95	8	-0.09
Beta	1.34	34	0.93
R-Squared	98.60	60	99.60
12-Month Yield			1.98%
Potential Cap Gains Exp			13.04%
Operations			
Family: Va	Vanguard		

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Below B

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Manager:

Multiple Vanguard

Ticker:

XIIVX US92202E6077

Incept: Type:

10-27-2003 ≨ \$65,129.80 mil

Purchase Constraints:

Base Currency:

ISIN:

Greater Europe Greater Asia

Americas

Regional Exposure

Stocks % 63.3 17.9 18.8

Tenure:

Objective:

Asset Allocation 10.0 Years

Minimum Initial Purchase:

\$1,000

Total Assets:

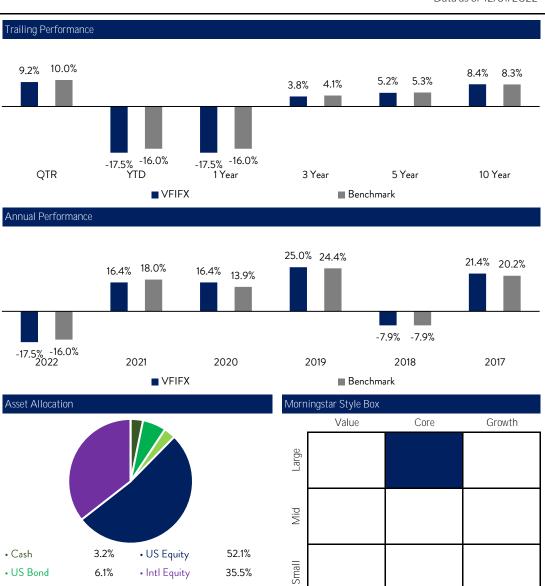
Credit Quality Brea	M01	рәуу үбін	Fixed-Income Style	Value Bland Grawfth	Portfolio Analysis 01-31-2023 Asset Allocation % Cash US Stocks Non-US Stocks Bonds Other/Not Clsfd Total
Credit Quality Breakdown 12-31-2022 AAA AA	wol	Avg Eff Duration Avg Wtd Coupon Avg Wtd Price	-	Portfolio Statistics P/E Ratio TTM P/C Ratio TTM P/C Ratio TTM P/B Ratio TTM Geo Avg Mkt Cap Smil	sis 01-31-2023 6 2.86 49.95 34.29 12.87 0.04
Bond % 57.11 9.58		6./5 2.48 —	8.83	Port Rel Rel Avg Index Cat 15.6 1.03 1.01 11.6 1.02 1.01 2.3 1.07 0.98 60110 1.37 0.97	Long % Short % 3.57 0.71 49.95 0.00 34.29 0.00 12.88 0.01 0.04 0.00 100.72 0.72
HealthcareUtilities	→ Defensive	industrials Technology	Sensitive Communication Services	Sector Weightings 1. Cyclical 2. Basic Materials 3. Consumer Cyclical 4. Financial Services 5. Real Estate	Share Chg Share since Amount 12-2022 Head of the since 12-2022 The s
13.2 3.1		5.4 11.5 17.9		Stocks % 35.1 Is 5.0 Is 10.3 ices 16.3 3.5	Share Holdings: Amount 11,104 Total Stocks, 15,222 Total Fixed-Income 5% Turnover Flatio 77 mil Vanguard Total Stock Mkt Idx Instl 160 mil Vanguard Total Intl Stock Index Inv 175 mil Vanguard Total Bond Market II Idx 176 mil Vanguard Total Bond Market II Idx 177 mil Vanguard Total Intl Bd II Idx Insl
2 1.10 1 0.91		4 1.04 5 1.00 9 1.25		Rel Std Index 1.1 0.86 0 0.90 3 0.89 3 0.89 3 0.98	Net Assets % I-Income. % 50.69 Inv 34.91 Idx 9.25

			0.94	
			0.98	
			1.03	
			Rel Std Index	
			0.36	
			0.44	
			0.00	
			0.00	
			15.27	
			17.24	
	3.1	Utilities	9.58	
	13.2	 Healthcare 	57.11	
	7.4	Consumer Defensive	Rond %	
	23.8	→ Defensive		
	17.9	Technology	I	
	11.5	ndustrials	2.48	
	5.4	Energy	6.75	
	6.4	Communication Services	8.83	
	41.1	₩ Sensitive		
	3.5	★ Real Estate		
	16.3	Financial Services	0 1.37 0.97	60110
	10.3	Consumer Cyclical	1.07	2.3
	5.0	Basic Materials	1.02	11.6
	35.1	∿ Cyclical	1 naex	15 AV9
Rel Std	Stocks %	Sector Weightings		Por

Product Details	
Name	Vanguard Target Retirement 2050 Fund
Ticker	VFIFX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date 2050
Benchmark	S&P Target Date 2050 TR USD
Inception Date	6/7/2006
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	10.00 Years
Fund Size	\$52,646,988,158

Fund Characteristics	VFIFX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	=
Average Market Cap (mil)	\$60,248	-\$327
P/E Ratio (TTM)	15.63	0.08
P/B Ratio (TTM)	2.33	-0.05
Est. Dividend Yield	2.60%	0.06%

Sector Allocations	VFIFX	Category	+/- Category
Materials	5.0%	4.5%	0.5%
Communication Services	6.4%	6.2%	0.2%
Consumer Discretionary	10.3%	10.8%	-0.5%
Consumer Staples	7.4%	7.0%	0.4%
Healthcare	13.2%	13.6%	-0.4%
Industrials	11.5%	10.9%	0.6%
Real Estate	3.5%	4.8%	-1.3%
Technology	17.9%	18.2%	-0.3%
Energy	5.4%	5.2%	0.2%
Financial Services	16.3%	15.7%	0.5%
Utilities	3.1%	3.1%	0.1%
Other	0.0%	0.0%	0.0%



3.0%

• Other

0.0%

• Intl Bond

Vanguard Target Retirement 2050 Fund VFIFX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VFIFX	9.23%	-17.46%	-17.46%	3.80%	5.18%	8.36%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	10.01%	-15.97%	-15.97%	4.12%	5.26%	8.33%	• VFIFX	9.23%	-6.64%	-14.21%	-5.65%
+/- Benchmark	-0.78%	-1.49%	-1.49%	-0.32%	-0.08%	0.03%	 Benchmark 	10.01%	-6.07%	-14.39%	-5.02%
Peer Group Rank	43	29	29	32	27	20	+/- Benchmark	-0.78%	-0.57%	0.17%	-0.63%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VFIFX	-17.46%	16.41%	16.39%	24.98%	-7.90%	21.39%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-15.97%	17.99%	13.86%	24.35%	-7.94%	20.18%	• VFIFX	5.63%	-1.11%	6.61%	4.53%
+/- Benchmark	-1.49%	-1.58%	2.53%	0.63%	0.05%	1.22%	• Benchmark	6.20%	-0.80%	6.08%	5.57%
Peer Group Rank	29	69	38	47	35	32	+/- Benchmark	-0.57%	-0.31%	0.52%	-1.04%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VFIFX	5.18%	4.39%	6.81%	10.96%	13.62%	12.66%	• VFIFX	14.01%	7.35%	18.67%	-19.86%
• Benchmark	5.26%	4.35%	6.59%	10.72%	13.07%	12.19%	• Benchmark	14.40%	6.53%	17.61%	-20.56%
+/- Benchmark	-0.08%	0.04%	0.22%	0.24%	0.55%	0.47%	+/- Benchmark	-0.39%	0.82%	1.06%	0.70%
Peer Group Rank	27	24	24	33	40	38					
							5-Year Quarterly				
Risk Statistics	3`	Year	5	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VFIFX	8.01%	0.29%	3.47%	11.50%
Alpha	-0.30	0.00	-0.06	0.00	0.06	0.00	 Benchmark 	7.65%	0.47%	3.32%	11.28%
Beta	0.99	1.00	0.99	1.00	1.00	1.00	+/- Benchmark	0.36%	-0.18%	0.16%	0.22%
Standard Deviation	18.82	18.89	16.47	16.51	13.12	13.15					
Sharpe Ratio	0.25	0.26	0.31	0.31	0.62	0.61	5-Year Quarterly				
Information Ratio	-0.24	-	-0.07	-	0.03	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	2.96	3.27	3.86	3.92	7.58	7.51	• VFIFX	-11.79%	4.02%	0.94%	-0.55%
Upside Capture Ratio	99.47	100.00	99.71	100.00	100.01	100.00	• Benchmark	-12.05%	3.87%	1.72%	-0.94%
Downside Capture Ratio	100.66	100.00	100.02	100.00	99.83	100.00	+/- Benchmark	0.26%	0.15%	-0.78%	0.38%

2050 Fund (USD) Vanguard Target Retirement 2 1 2

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Equity Stocks %

Investment Style

4

88

89

No. in Cat +/- Cat Index +/- Std Index Std 12-31-2022 Load-adj Mthly 2023 2022 2021 Quarterly Returns % Rank Cat Total Return Trailing Returns Performance 01-31-2023 -17.46 1st Otr -5.65 -1.47 -0.93-7.51 -7.51 4.53 213 1 32 -14.21 2nd Otr 2.69 0.55 6.56 6.56 6.61 189 3 Υ 39 3rd Otr -1.11 -6.64 0.45 1.35 5.64 5.18 5.64 170 5 Yr 41 4th Otr 8.36 8.64 5.63 0.70 8.64 9.23 2.56 10 Y 96 21 16.41 -17.46 Total % 6.79 7.20 Incept 7.20 7.06

The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield 02-07-23 Performance Disclosure 2.07

7-day Yield

Subsidized

Unsubsidized

23.09 15.58

29.62

2012

2013

2014

2.07

3.54

10.04 28.19 24.34

2.29 7.18

-0.35

1.<u>5</u>1

2.18

30

6

(if applicable) Morningstar metrics.

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent Fees and Expenses month-end, please call 800-662-7447 or visit www.vanguard.com

Sales Charges Front-End Load %	Š
Deferred Load %	Š
Fund Expenses	
Management Fees %	0.00
12b1 Expense %	NA
Net Expense Ratio %	0.08
Gross Expense Ratio %	0.08
Rick and Return Profile	

biM Small

Geo Avg Mkt Cap \$mil

Consumer CyclicalFinancial ServicesReal Estate

10.3 16.3 3.5

0.49 0.89

Fund Expenses			
Management Fees %			0.00
12b1 Expense %			NA
Net Expense Ratio %			0.08
Gross Expense Ratio %			0.08
Risk and Return Profile			
	3 Yr 189 funds	5 Yr 170 funds	10 Yr 96 funds
Morningstar Rating™	4★	3 ★	4★
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	19.18	16.62	13.23
Mean	6.56	5.64	8.64
Sharpe Ratio	0.38	0.33	0.63

¶orningstar Analyst Rating™ Overall Morningsta	Overall Morningsta
≣ Silver	***
	189 US Fund Target-
	2050

tar Rating™ t-Date

Morningstar Mod Tgt Risk TR USD

Standard Index TR USD

Morningstar Lifetime Mod 2050 Category Index **Morningstar Cat**

2050 US Fund Target-Date

Growth of \$10,000 27,613 Category Average 25,239 Vanguard Target Retirement 2050 Fund

20

Standard Index 20,808

9

Portfolio Analysis 01-31-2023	is 01-31-2023					
Asset Allocation %	Net %	Long %	Short %	Share Chg Share	Holdings:	Net Assets
Cash	2.74	3.24	0.50	since Amount	11,109 Total Stocks , 14,178 Total Fixed-Income,	%
US Stocks	52.35	52.35	0.00	12-2022	4% Turriover nau0	}
Non-US Stocks	35.69	35.69	0.00	⊕ 150 mil	150 mil Vanguard Total Stock Mkt Idx Insti	53.14
Bonds	9.17	9.18	0.01	① 1,059 mil	,059 mil Vanguard Total Intl Stock Index Inv	36.34
Other/Not Clsfd	0.04	0.04	0.00	⊕ 365 mil	365 mil Vanguard Total Bond Market II ldx	6.68
Total	100.00	100.51	0.51	⊕ 54 mil	54 mil Vanguard Total Intl Bd II Idx Insl	2.69
Equity Style	Portfolio Statistics	Port Rel	- Be	Sector Weightings	Stocks %	Rel Std Index
Value Blend Growth	P/F Ratio TTM	Avg Index	~ ^ 1 Si	ე₀ Cyclical	35.1	0.86
Гагде	P/C Ratio TTM		1.00	Basic Materials	ls 5.0	0.90
······································	P/B Ratio TTM			Consumer Cyclical	lical 10.3	0.89
	Geo Avg Mkt Cap	60248 1.37 0.99	0.99	Financial Services	ices 16.3	0.98
·w;	9				9	9

Fixed-Income Style	me Style		
Ltd Mod	Ext .	Avg Eff Maturity	8.83
_	Эін	Avg Eff Duration	6.74
	ųŧ	Avg Wtd Coupon	2.49
	baM	Avg Wtd Price	I
	мод		
Credit Qua	lity Break	Credit Quality Breakdown 12-31-2022	Bond %
AAA			57.60
AA			9.34
Þ			17.06
DDD			15 22

B			ality Breakdown 12:31-2022 Bond (57.6 9.3 17.0	
5/.6	9.34	57.60 9.34 17.06	57.50 9.34 17.06 15.22	57.00 9.34 17.06 15.22 0.00
٠,٠	9.	9. 17.	9. 9 17. 15.	9. 9. 17. 15. 0.
۵۵	0.0	17.0	17.0 15.2	17.0 15.2 0.0

✓ Sensitive	41.1	1.13
Communication Services	6.4	1.17
★ Energy	5.4	1.04
Industrials	11.5	1.00
Technology	17.9	1.25
→ Defensive	23.8	1.06
Consumer Defensive	7.4	1.05
Healthcare	13.2	1.10
Utilities	3.1	0.91
Purchase Constraints:		
Incept:	06-07-2006	
Type:	MF	

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©2023 Morninaster. All Rights Reserved Unless otherwise provided in a separate agreement, you may use this report only in the country in which its original distributor is based. The information, data, analyses and

Family:

Multiple

Ticker:

YEIPX US92202E8628

Base Currency:

Tenure: Manager:

Objective:

Asset Allocation 10.0 Years

Minimum Initial Purchase:

\$1,000

Total Assets:

\$52,646.99 mil

R-Squared

Beta

2.05 1.35 98.68

MPT Statistics

Standard Index

Best Fit Index MSCI ACWI NR

Below B

888

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12-Month Yield Potential Cap Gains Exp

1.98% 9.24%

Greater Europe Greater Asia

99.62 USD 0.00 0.94

Americas

Regional Exposure

Stocks %

Rel Std Index

0.36 0.42

63.5 17.8 18.7

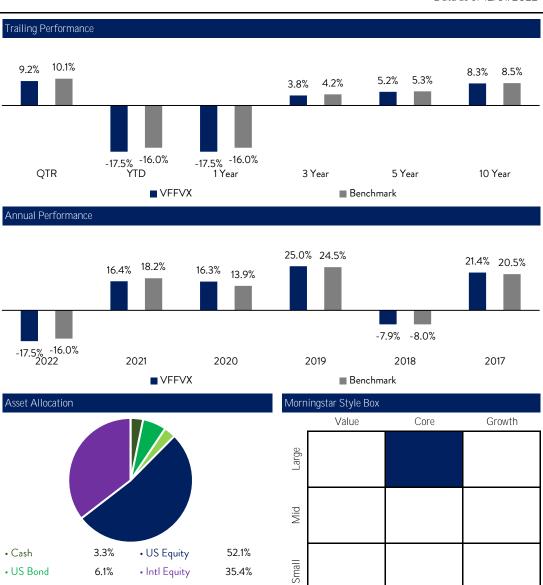
1.03 0.97 0.93

Vanguard Target Retirement 2055 Fund VFFVX

Product Details	
Name	Vanguard Target Retirement 2055 Fund
Ticker	VFFVX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date 2055
Benchmark	S&P Target Date 2055 TR USD
Inception Date	8/18/2010
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	10.00 Years
Fund Size	\$32,934,026,341

Fund Characteristics	VFFVX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	-
Average Market Cap (mil)	\$60,308	\$8
P/E Ratio (TTM)	15.63	0.29
P/B Ratio (TTM)	2.33	0.00
Est. Dividend Yield	2.60%	0.02%

Sector Allocations	VFFVX	Category	+/- Category
Materials	5.0%	4.7%	0.3%
Communication Services	6.4%	6.3%	0.0%
Consumer Discretionary	10.3%	10.7%	-0.4%
Consumer Staples	7.4%	6.9%	0.5%
Healthcare	13.2%	13.4%	-0.2%
Industrials	11.5%	10.8%	0.7%
Real Estate	3.5%	4.9%	-1.4%
Technology	17.9%	18.0%	-0.2%
Energy	5.4%	5.3%	0.1%
Financial Services	16.3%	15.8%	0.5%
Utilities	3.1%	3.1%	0.1%
Other	0.0%	0.0%	0.0%



3.0%

• Other

0.0%

• Intl Bond

Vanguard Target Retirement 2055 Fund VFFVX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VFFVX	9.23%	-17.46%	-17.46%	3.79%	5.18%	8.34%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	10.11%	-15.97%	-15.97%	4.18%	5.31%	8.46%	• VFFVX	9.23%	-6.63%	-14.19%	-5.69%
+/- Benchmark	-0.88%	-1.49%	-1.49%	-0.39%	-0.14%	-0.12%	 Benchmark 	10.11%	-6.07%	-14.47%	-5.01%
Peer Group Rank	47	25	25	36	29	25	+/- Benchmark	-0.88%	-0.55%	0.27%	-0.67%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VFFVX	-17.46%	16.44%	16.32%	24.98%	-7.89%	21.38%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-15.97%	18.19%	13.86%	24.48%	-7.97%	20.48%	• VFFVX	5.65%	-1.11%	6.61%	4.54%
+/- Benchmark	-1.49%	-1.75%	2.46%	0.49%	0.09%	0.90%	 Benchmark 	6.22%	-0.80%	6.15%	5.67%
Peer Group Rank	25	74	42	48	32	41	+/- Benchmark	-0.57%	-0.30%	0.46%	-1.13%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VFFVX	5.18%	4.38%	6.80%	10.95%	13.61%	12.65%	• VFFVX	13.97%	7.38%	18.64%	-19.89%
• Benchmark	5.31%	4.39%	6.64%	10.80%	13.18%	12.33%	• Benchmark	14.56%	6.62%	17.76%	-20.84%
+/- Benchmark	-0.14%	-0.01%	0.16%	0.15%	0.43%	0.32%	+/- Benchmark	-0.59%	0.76%	0.88%	0.95%
Peer Group Rank	29	28	27	38	44	41					
							5-Year Quarterly				
Risk Statistics		Year		Year		Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VFFVX	8.02%	0.27%	3.48%	11.50%
Alpha	-0.35	0.00	-0.09	0.00	0.00	0.00	 Benchmark 	7.73%	0.46%	3.34%	11.31%
Beta	0.99	1.00	0.99	1.00	0.98	1.00	+/- Benchmark	0.29%	-0.19%	0.14%	0.20%
Standard Deviation	18.83	19.06	16.46	16.65	13.11	13.30					
Sharpe Ratio	0.24	0.26	0.31	0.31	0.62	0.62	5-Year Quarterly				
Information Ratio	-0.28	-	-0.12	-	-0.12	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	2.98	3.33	3.88	3.97	7.65	7.64	• VFFVX	-11.76%	3.99%	0.95%	-0.56%
Upside Capture Ratio	98.52	100.00	98.81	100.00	98.53	100.00	• Benchmark	-12.10%	3.88%	1.70%	-0.91%
Downside Capture Ratio	99.85	100.00	99.19	100.00	98.53	100.00	+/- Benchmark	0.34%	0.11%	-0.76%	0.35%

Vanguard 2055 Fund I (USD) Target Retirement Morningstar Analyst Rating™ Overall Morningstar Rating™ Standard Index

Performance 01-31-2023	-31-20Z3				
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Otr	Total %
2021	4.54	6.61	-1.11	5.65	16.44
2022	-5.69	-14.19	-6.63	9.23	-17.46
2023		1	1		7.07
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-7.48	6.54	5.63	8.63	9.51
Std 12-31-2022	-17.46		5.18	8.34	8.97
Total Return	-7.48	6.54	5.63	8.63	9.51
+/- Std Index	-0.90	2.67	1.35	2.55	
+/- Cat Index	-1.49	0.53	0.50	0.76	
% Rank Cat	31	46	45	27	
No. in Cat	212	188	167	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 30-day SEC Yield 02-07-23 7-day Yield

Subsidized

Unsubsidized 2.07

(if applicable) Morningstar metrics.

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and

month-end, please call 800-662-7447 or visit www.vanguard.com. Current performance may be lower or higher than return data

quoted herein. For performance data current to the most recent Fees and Expenses

	Risk and Return Profile
0.08	Gross Expense Ratio %
0.08	Net Expense Ratio %
NA	12b1 Expense %
0.00	Management Fees %
	Fund Expenses
NA	Deferred Load %
NA	Front-End Load %
	Sales Charges

5.0 10.3 16.3 3.5

Deferred Load %			z
Fund Expenses			
Management Fees %			0.0
12b1 Expense %			z
Net Expense Ratio %			0.0
Gross Expense Ratio %			0.0
Risk and Return Profile			
	3 Yr	5Yr	10
	188 funds	167 funds	81 fun
Morningstar Rating™	4⋆	3 ★	4
Morningstar Risk	-Avg	-Avg	-A

	3 Yr	5Yr	10 Yr
	188 funds 1	167 funds	81 funds
Morningstar Rating™	4*	3 ⊁	4★
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5Yr	10 Yr
Standard Deviation	19.19	16.61	13.22
Mean	6.54	5.63	8.63
Sharpe Ratio	0.38	0.33	0.63
MPT Statistics	Standard Index		Best Fit Index MSCI ACWI NR
			USD
Alpha	2.04	-	-0.02
Beta	1.35	01	0.94
R-Squared	98.69	9	99.63
12-Month Yield			1.96%
Potential Cap Gains Exp			2.34%
Operations			
Family: Va	Vanguard		
	A		

Utilities

23.8 7.4 13.2 3.1

1.06 1.05 1.10 0.91

2012 24.80 24.80 3.54 -0.42	《 : : : : : : : : : : : : : : : : : : :
30 2	<u> </u>
2013 2013 30.35 224.33 10.02 1.84	Morningst Silver 02-24-2022 89 89 89
2014 31.98 7.19 2.31 2.45	984ar A 1927 188
2015 2015 30.83 -1.72 0.07 1.62	nalyst R
2016 2016 32.91 8.88 0.31 -2.03	lating TM
2017 39.23 21.38 6.72 0.43	0verall **** 1188 US 2055 88
2018 2018 35.30 -7.89 -3.13 0.68	Overall Morningstar Rat **** 188 US Fund Target-Date 2055 88 89 89
2019 43.19 24.98 5.95	gstar Re
2020 49.34 16.32 3.50 3.41	ee ating w
2021 52.22 16.44 6.25 -0.06	Morningstar Analyst Rating™ Overall Morningstar Rating™ Standard Index **** Morningstar Rating™ Standard Index **** 188 US Fund Target-Date Tgt Risk TR USD 2055 *** *** *** *** *** *** **
2022 42.17 -17.46 -2.68 -0.53	Standard Index Morningstar Mod Tgt Risk TR USD 86 88
01-23 45.15 7.07 1.58	
**	Category Index Morningstar Lifetime Mod 20 TR USD Inves Block Block Block Block Block Block Brow Block Grow A0k Brow Brow Brow Brow Brow Brow Brow Brow
Performance Quartile (within category) History NAV/Price Total Return % +/- Standard Index +/- Category Index % Bank Cat	iron to de
ZU,8U8 ormance Quin category) ory Ory I Return % I Return % I Return % ank Cat	37 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8
lex	e Target Average
	Morningstar Cat US Fund Target-Date 2055 t Style \$10,000 Sand Target Retirement Fund 8 Jory Average 9 Jard Index
	-Date

040	-	5	17	40	رد	c	<u>+</u>	/0	47		% nalik Cat	
102 130	0 156	238	193	206	221	229	207	213	212 214	214	No. of Funds in Cat	
Portfolio Analysis 01-31-2023	alysis 01-	31-2023										
Asset Allocation %	n %	z	Net %	Long %	Short %	Share Chg		Share	Holdings:			Net Assets
Cash			2.77	3.27	0.50	since	3	Amount	11,109 Tot	al Stocks,	11,109 Total Stocks , 14,178 Total Fixed-Income,	%
US Stocks		ω	52.38	52.38	0.00	12-2022		:	4% Furriover haud	er nauo		1
Non-US Stocks	S	ω	35.60	35.60	0.00	\oplus		M mil	Vanguar	d lotal S	94 mil Vanguard Iotal Stock Mkt Idx Insti	53.17
Bonds			9.20	9.21	0.01	1	66	oi mil	Vanguar	d lotal In	661 mil Vanguard Total Intl Stock Index Inv	36.24
Other/Not Clsfd	fd		0.04	0.04	0.00	•	22	ig mil	Vanguard	d Total B	229 mil Vanguard Total Bond Market II ldx	6.71
Total		10	100.00	100.51	0.51	⊕	(.)	34 mil	Vanguar	d Total In	34 mil Vanguard Total Intl Bd II Idx Insl	2.69
Equity Style	Por	Portfolio Statistics	tics		el Rel	Sect	Sector Weightings	tings			Stocks %	Rel Std Index
Value Blend Growth		P/F Ratio TTM		Avg index 15.6 1.03	3 × 1.02	ے	Cyclical	_			35.1	0.86
	egie.	P/C Ratio TTM	_	11.7 1.0	2 1.02	B	Basic Materials	laterials	0,		5.0	0.90
	w P/B	P/B Ratio TTM	_	2.3 1.07	7 1.00	Þ	Consumer Cyclical	ner Cycli	cal		10.3	0.88
		Geo Avg Mkt Cap		60308 1.37 1.00	7 1.00	4.	Financial Services	al Servic	æs		16.3	0.98

Healthcare	57 58	., 9		10WII 12-31-2022	
Consumer Defensive	00			12 21 2022	Condit Ounliky Brooks
→ Defensive					мор
Technology				Avg Wtd Price	peq
Industrials	2.49			Avg Wtd Coupon	N I
Energy	6.74			Avg Eff Duration	ıgiH
Communication Services	8.83			Avg Eff Maturity	Ltd Mod Ext
•					Fixed-Income Style
•					
Real Estate				\$mil	llen
Financial Services		1.37 1.00	60308	Geo Avg Mkt Cap	
Consumer Cyclical	1.00	1.07	2.3	P/B Ratio TTM	P!W
	1.02	1.02	11.7	P/C Ratio TTM	ебл
	.04			1/ [] [] []	PŢ

6.4 5.4 11.5 17.9

0.49 **1.13**1.17
1.04
1.00
1.25

			1
Credit Quality Breakdown 12-31-2022	1-2022	Bond %	
AAA		57.58	
AA		9.35	
Α		17.06	
BBB		15.22	
BB		0.00	
В		0.00	
Below B		0.42	
NR		0.36	
Regional Exposure	Stocks %	Rel Std Index	
Americas	63.6	1.03	
Greater Europe	17.8	0.97	
Greater Asia	18.6	0.93	

e: \$1,000	U.S	ş	USD	
,000	US92202E8479	VFFVX	30	
Total Assets:	Туре:	Incept:	Purchase Constraints:	
\$32,934.03 mil	MF	08-18-2010		

Manager: Tenure:

Multiple

Ticker:

Base Currency:

Objective:

Asset Allocation 10.0 Years

Minimum Initial Purchase

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Vanguard Target Retirement 2060 Fund VTTSX

Product Details	
Name	Vanguard Target Retirement 2060 Fund
Ticker	VTTSX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date 2060
Benchmark	S&P Target Date 2060 TR USD
Inception Date	1/19/2012
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	10.00 Years
Fund Size	\$16,773,267,087

Fund Characteristics	VTTSX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	-
Average Market Cap (mil)	\$60,476	-\$1,620
P/E Ratio (TTM)	15.65	0.09
P/B Ratio (TTM)	2.34	-0.05
Est. Dividend Yield	2.60%	0.05%

Sector Allocations	VTTSX	Category	+/- Category
Materials	5.0%	4.7%	0.3%
Communication Services	6.4%	6.4%	0.0%
Consumer Discretionary	10.3%	10.9%	-0.6%
Consumer Staples	7.4%	7.0%	0.4%
Healthcare	13.3%	13.8%	-0.5%
Industrials	11.5%	10.8%	0.6%
Real Estate	3.5%	4.6%	-1.1%
Technology	17.9%	18.0%	-0.1%
Energy	5.4%	5.3%	0.1%
Financial Services	16.3%	15.5%	0.8%
Utilities	3.1%	3.0%	0.1%
Other	0.0%	0.0%	0.0%



Vanguard Target Retirement 2060 Fund VTTSX

Trailing Performance	QTR	YTD	1 Year	0.14							
			i rear	3 Year	5 Year	10 Year	5-Year Quarterly				
• VTTSX	9.23%	-17.46%	-17.46%	3.79%	5.18%	8.34%	Performance	4Q22	3Q22	2022	1Q22
• Benchmark	10.12%	-16.01%	-16.01%	4.16%	5.35%	8.50%	VTTSX	9.23%	-6.64%	-14.19%	-5.68%
+/- Benchmark	-0.89%	-1.45%	-1.45%	-0.38%	-0.17%	-0.17%	 Benchmark 	10.12%	-6.09%	-14.48%	-5.02%
Peer Group Rank	52	24	24	38	33	1	+/- Benchmark	-0.89%	-0.54%	0.29%	-0.66%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VTTSX	-17.46%	16.44%	16.32%	24.96%	-7.87%	21.36%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-16.01%	18.05%	13.99%	24.73%	-7.95%	20.75%	• VTTSX	5.66%	-1.11%	6.61%	4.54%
+/- Benchmark	-1.45%	-1.60%	2.33%	0.23%	0.08%	0.61%	• Benchmark	6.21%	-0.83%	6.12%	5.61%
Peer Group Rank	24	76	43	56	29	42	+/- Benchmark	-0.55%	-0.29%	0.48%	-1.07%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VTTSX	5.18%	4.38%	6.79%	10.95%	13.61%	12.64%	• VTTSX	13.96%	7.39%	18.61%	-19.86%
• Benchmark	5.35%	4.44%	6.70%	10.87%	13.28%	12.46%	• Benchmark	14.56%	6.61%	17.93%	-20.86%
+/- Benchmark	-0.17%	-0.06%	0.09%	0.08%	0.32%	0.18%	+/- Benchmark	-0.59%	0.77%	0.68%	0.99%
Peer Group Rank	33	29	31	42	48	48					
							5-Year Quarterly				
Risk Statistics	3 \	Year	5 \	/ear	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VTTSX	8.02%	0.28%	3.48%	11.48%
Alpha	-0.33	0.00	-0.11	0.00	-0.01	0.00	 Benchmark 	7.81%	0.45%	3.37%	11.42%
Beta	0.98	1.00	0.98	1.00	0.98	1.00	+/- Benchmark	0.20%	-0.18%	0.12%	0.06%
Standard Deviation	18.81	19.09	16.45	16.70	13.11	13.36					
Sharpe Ratio	0.24	0.26	0.31	0.32	0.62	0.62	5-Year Quarterly				
Information Ratio	-0.26	-	-0.14	-	-0.16	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	2.99	3.31	3.90	4.00	7.69	7.69	• VTTSX	-11.77%	4.00%	0.93%	-0.52%
Upside Capture Ratio	98.37	100.00	98.34	100.00	98.00	100.00	• Benchmark	-12.22%	3.97%	1.77%	-0.90%
Downside Capture Ratio	99.62	100.00	98.78	100.00	98.00	100.00	+/- Benchmark	0.45%	0.02%	-0.84%	0.38%

2060 Fund (USD) Vanguard Target Retirement

88

Performance 01-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Otr	Total %
2021	4.54	6.61	-1.11	5.66	16.44
2022	-5.68	-14.19	-6.64	9.23	-17.46
2023	ı	I	I	I	7.06
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-7.50	6.54	5.63	8.62	9.19
Std 12-31-2022	-17.46	I	5.18	8.34	8.59
Total Return	-7.50	6.54	5.63	8.62	9.19
+/- Std Index	-0.92	2.67	1.34	2.54	
+/- Cat Index	-1.50	0.58	0.57	0.85	1
% Rank Cat	33	48	47	_	
No. in Cat	212	183	157	_	

The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield 02-07-23 Performance Disclosure 2.07

(if applicable) Morningstar metrics.

7-day Yield

Subsidized

Unsubsidized 2.07

21.81

2012

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and

month-end, please call 800-662-7447 or visit www.vanguard.com. quoted herein. For performance data current to the most recent Current performance may be lower or higher than return data Fees and Expenses

Net Expense Ratio %	12b1 Expense %	Management Fees %	Fund Expenses	Front-End Load % Deferred Load %	Sales Charges
0.08	NA	0.00		NA NA	

Deletted Fran 70			3
Fund Expenses			
Management Fees %			0.0
12b1 Expense %			Z
Net Expense Ratio %			0.0
Gross Expense Ratio %			0.0
Risk and Return Profile			
	3 Yr	5Yr	10 \
	183 funds	157 funds	1 fund
Morningstar Rating™	3 ★	3 ★	ı
Morningstar Risk	-Avg	-Avg	ı
Morningstar Return	Avg	Avg	ı
	3 Yr	5Yr	10 \
Standard Deviation	19.16	16.60	13.2
Mean	6.54	5.63	8.6

		M.::H::SIO		-
		Vanguard		Family:
			tions	Operations
-2.09%			Potential Cap Gains Exp	Pote
1.96%			12-Month Yield	12-N
99.62		98.68	R-Squared	R-Sq
0.93		1.35		Beta
-0.02		2.04		Alpha
MSCI ACWI NR USD	MS			
Best Fit Index	В	Standard Index	MPT Statistics	MPT
0.63	0.33	0.38	Sharpe Ratio	Shar
8.62	5.63	6.54	_	Mean
13.22	16.60	19.16	Standard Deviation	Stan
10 Yr	5 Yr	3 Yr		
	Avg	Avg	Morningstar Return	Morr
	-Avg	-Avg	Morningstar Risk	Morr
	3 ★	3 ⊁	Morningstar Rating™	Morr
10 Yr 1 funds	5 Yr 157 funds	3 Yr 183 funds 15		
			Risk and Return Profile	Rish
0.08			Gross Expense Ratio %	Gros
0.08			Net Expense Ratio %	Net
NA			12b1 Expense %	12b1
0.00			Management Fees %	Man
			rund Expenses	Fund

_	2.17	10.04	24.35	26.75	2013			88	Morningst Silver
_	2.63	2.27	7.16	28.20	2014		\	88	Morningstar Analyst Rating™ Overall Morningstar Rating™ ★★★ 02-24-2022 183 US Fund Target-Date 2060
71	1.80	0.11	-1.68	27.21	2015)	89	nalyst R
21	-2.03	0.27	8.84	29.04	2016		§	88	ating™
53	0.30	6.70	21.36	34.63	2017		N	æ =	Overall ★★★ 183 US 2060
34	0.82	:3. 11	-7.87	31.18	2018			88	Mornin Fund Ta
99	0.00	5.93	24.96	38.16	2019		}	88	Overall Morningstar Rat ★★★ 1183 US Fund Target-Date 2060
42	3.43	3.50	16.32	43.59	2020		1	91	
82	0.12	6.25	16.44	48.04	2021		11	88	Standard Index Morningstar Mo Tgt Risk TR USD
25	-0.48	-2.68	-17.46	38.83	2022		{{	87	Standard Index Morningstar Mod Tgt Risk TR USD
1	-0.31	1.57	7.06	41.57	01-23		80k 60k 40k 20k	87	
% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)	Growth of \$10,000 Vanguard Target Retirement 2060 Fund 26,246 Category Average 25,617 Standard Index 20,033	Investment Style Equity Stocks %	Category Index Morningstar Cat Morningstar US Fund Target-Date Lifetime Mod 2060 TR USD
	53 34 66 42 81 25 —	2.63 1.80 -2.03 0.30 0.82 0.00 3.43 0.12 -0.48 -0.31 1 7.1 2.1 53 34 66 42 81 25 —	2,27 0.11 0.27 6,70 -3,11 5.93 3.50 6.25 -2,68 1,57 2,63 1,80 -2,03 0,30 0,82 0,00 3,43 0,12 -0,48 -0,31 1 7,1 2,1 5,3 3,4 6,6 4,2 8,1 2,5	7.16 -1.68 8.84 21.36 -7.87 24.96 16.32 16.44 -17.46 7.06 2.27 0.11 0.27 6.70 -3.11 5.93 3.50 6.25 -2.68 1.57 2.63 1.80 -2.03 0.30 0.82 0.00 3.43 0.12 -0.48 -0.31 1 7.1 2.1 5.3 34 66 42 81 25 —	28.20 27.21 29.04 34.63 31.18 38.16 43.59 48.04 38.83 41.57 7.16 -1.68 8.84 21.36 -7.87 24.96 16.32 16.44 -17.46 7.06 2.27 0.11 0.27 6.70 -3.11 5.93 3.50 6.25 -2.68 1.57 2.63 1.80 -2.03 0.30 0.82 0.00 3.43 0.12 -0.48 -0.31 1 71 21 53 34 66 42 81 25 —	2014 2015 2016 2017 2018 2019 2020 2021 2022 01-23 28.20 27.21 29.04 34.63 31.18 38.16 43.59 48.04 38.83 41.57 7.16 -1.68 8.84 21.36 -7.87 24.96 16.32 16.44 -17.46 7.06 2.27 0.11 0.27 6.70 -3.11 5.93 3.50 6.25 -2.68 1.57 2.63 1.80 -2.03 0.30 0.82 0.00 3.43 0.12 -0.48 -0.31 1 71 21 53 34 66 42 81 25 —	2014 2015 2016 2017 2018 2019 2020 2021 2022 01-23 28.20 27.21 29.04 34.63 31.18 38.16 43.59 48.04 38.83 41.57 7.16 -1.68 8.84 21.36 -7.87 24.96 16.32 16.44 -17.46 7.06 2.27 0.11 0.27 6.70 -3.11 5.93 3.50 6.25 -2.68 1.57 2.63 1.80 -2.03 0.30 0.82 0.00 3.43 0.12 -0.48 -0.31 1 71 21 53 34 66 42 81 25 —	Series S	Inverse Inve

Portfolio Analysis 01-31-2023	is 01-31-2023					
Asset Allocation %	Net %	-	Short %	Chg	Holdings:	Net Assets
Cash	2.87	3.38	0.51	since Amount	11,109 Total Stocks , 14,190 Total Fixed-Income,	%
US Stocks	52.51	52.51	0.00) Z2UZZ	3% Tullover hadro	0
Non-US Stocks	35.38	35.38	0.00	⊕ 48 mil	Vanguard Total Stock Mkt Idx Insti	53.29
Bonds	9.20	9.21	0.01	① 335 mil	Vanguard Total Intl Stock Index Inv	36.01
Other/Not Clsfd	0.04	0.04	0.00	⊕ 117 mil	Vanguard Total Bond Market II ldx	6.70
Total	100.00	100.52	0.52	⊕ 17 mil	17 mil Vanguard Total Intl Bd II ldx Insl	2.69
Equity Style	Portfolio Statistics		- Be	Sector Weightings	Stocks %	Rel Std Index
Value Blend Growth	P/F Ratio TTM	Avg Index 15.6 1.04	1 A	Դ Cyclical	35.1	0.86
Гагде	P/C Ratio TTM		1.01	Basic Materials	ls 5.0	0.90
9W	P/B Ratio TTM	2.3 1.08	3 0.98	Consumer Cyclical	lical 10.3	0.88
S I	à	60476 1.38	3 0.97	Financial Services	ices 16.3	0.98
llerr	\$mil			Real Estate	3.5	0.49

Equity Style	I orriono diananca	, C		2 2	econor reciginango	01000
Value Blend Growth	P/E Ratio TTM	15.00	104	1 2	Դ Cyclical	ω
раед	B/C Botio TTM	11 7	3 -	2 5	Basic Materials	
W	P/B Ratio TTM	2 :		o -	Consumer Cyclical	=
S P		60476	1.38	0.97	Financial Services	1
llem	\$mil				Real Estate	
Fixed-Income Style					₩ Sensitive	4
Ltd Mod Ext	Avg Eff Maturity			8.83	Communication Services	_
біН	Avg Eff Duration			6.74	◆ Energy	
V 4	Avg Wtd Coupon			2.49	ndustrials	→
рәу	Avg Wtd Price			-	Technology	
мод					→ Defensive	. 2
Credit Quality Breakdown 12-31-2022	lown 12-31-2022		В.	Bond %	Healthcare	. .
AAA				57.55		
AA				9.37	Offilities	
Α				17.08		
BBB				5.23		
B BB				0.00		
Below B				0.42		
NR				0.36		
Regional Exposure	Stocks %		Rel Std Index	Index		
Americas	63.7			1.03		

	Rel Std Index 1.03 0.97 0.93	15.23 0.00 0.00 0.42 0.36	Bond % 57.55 9.37 17.08		2.49	8.83 6.74	1.38 0.97		
Purchase Constraints: Incept: Type: Total Assets:			Healthcare Utilities	- '		Sensitive Communication Services Energy	Real Estate		
— 01-19-2012 MF \$16,773.27 mil			3.1 3.1	23.8	11.5 17.9	41.1 6.4 5.4	3.5	35.1 5.0 10.3	
			1.10 0.91	1.06	1.00 1.25	1.13 1.17 1.04	0.49	0.86 0.90 0.88	

Manager:

Ticker:

XSTTV US92202E8396

Base Currency:

ISIN:

Greater Europe Greater Asia

17.7 18.5

Tenure: Objective:

Asset Allocation 10.0 Years Multiple Vanguard

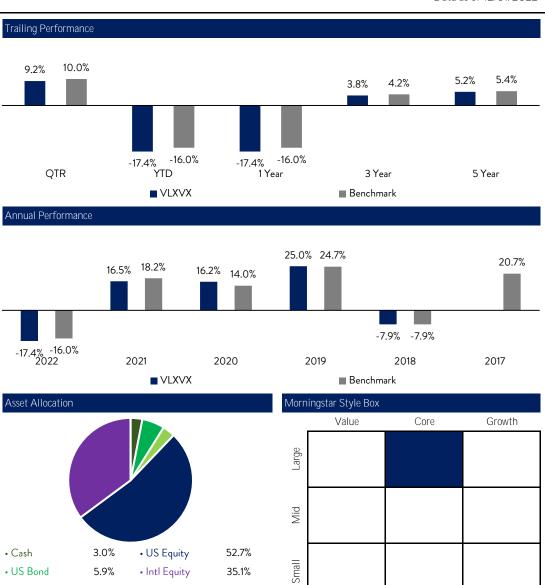
Minimum Initial Purchase:

\$1,000

Product Details	
Name	Vanguard Target Retirement 2065 Fund
Ticker	VLXVX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date 2065+
Benchmark	S&P Target Date 2065+ TR USD
Inception Date	7/12/2017
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	5.58 Years
Fund Size	\$4,007,075,402

Fund Characteristics	VLXVX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	-
Average Market Cap (mil)	\$60,710	\$1,542
P/E Ratio (TTM)	15.67	0.58
P/B Ratio (TTM)	2.34	0.05
Est. Dividend Yield	2.59%	-0.05%

Sector Allocations	VLXVX	Category	+/- Category
Materials	5.0%	4.9%	0.1%
Communication Services	6.4%	6.4%	0.0%
Consumer Discretionary	10.3%	10.8%	-0.5%
Consumer Staples	7.4%	7.2%	0.2%
Healthcare	13.3%	13.3%	0.0%
Industrials	11.5%	11.1%	0.4%
Real Estate	3.5%	4.1%	-0.5%
Technology	17.9%	18.2%	-0.2%
Energy	5.4%	5.4%	0.0%
Financial Services	16.2%	15.8%	0.5%
Utilities	3.1%	3.0%	0.2%
Other	0.0%	0.0%	0.0%



3.2%

• Other

0.0%

• Intl Bond

Vanguard Target Retirement 2065 Fund VLXVX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VLXVX	9.24%	-17.39%	-17.39%	3.78%	5.15%	-	Performance	4Q22	3Q22	2Q22	1022
• Benchmark	10.03%	-15.95%	-15.95%	4.22%	5.38%	-	• VLXVX	9.24%	-6.60%	-14.20%	-5.63%
+/- Benchmark	-0.79%	-1.44%	-1.44%	-0.45%	-0.23%	-	 Benchmark 	10.03%	-6.04%	-14.44%	-4.98%
Peer Group Rank	51	18	18	31	22	-	+/- Benchmark	-0.79%	-0.56%	0.24%	-0.65%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VLXVX	-17.39%	16.46%	16.17%	24.96%	-7.95%	-	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-15.95%	18.17%	13.99%	24.73%	-7.95%	20.75%	• VLXVX	5.66%	-1.11%	6.61%	4.55%
+/- Benchmark	-1.44%	-1.71%	2.18%	0.23%	0.00%	-	• Benchmark	6.25%	-0.80%	6.16%	5.61%
Peer Group Rank	18	66	56	57	1	-	+/- Benchmark	-0.59%	-0.31%	0.44%	-1.06%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VLXVX	5.15%	4.36%	-	-	-	-	• VLXVX	13.95%	7.36%	18.59%	-19.92%
• Benchmark	5.38%	4.50%	6.75%	10.91%	13.30%	12.47%	• Benchmark	14.56%	6.61%	17.93%	-20.86%
+/- Benchmark	-0.23%	-0.13%	-	-	-	-	+/- Benchmark	-0.61%	0.74%	0.66%	0.94%
Peer Group Rank	22	50	-	-	-	-					
							5-Year Quarterly				
Risk Statistics	3,	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VLXVX	8.00%	0.27%	3.52%	11.47%
Alpha	-0.40	0.00	-0.17	0.00	-	-	Benchmark	7.81%	0.45%	3.37%	11.42%
Beta	0.98	1.00	0.98	1.00	-	-	+/- Benchmark	0.19%	-0.19%	0.16%	0.06%
Standard Deviation	18.82	19.08	16.46	16.69	-	-					
Sharpe Ratio	0.24	0.27	0.31	0.32	-	-	5-Year Quarterly				
Information Ratio	-0.33	-	-0.20	-	-	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	2.97	3.37	3.87	4.04	-	-	• VLXVX	-11.77%	3.95%	0.97%	-0.60%
Upside Capture Ratio	98.31	100.00	98.28	100.00	-	-	Benchmark	-12.22%	3.97%	1.77%	-0.90%
Downside Capture Ratio	99.82	100.00	98.97	100.00	-	-	+/- Benchmark	0.45%	-0.03%	-0.80%	0.30%

2065 Fund (USD) Vanguard Target Retiremen R USD tar Mod Index TR USD Lifetime Mod 2060 Morningstar Category Index Investment Style 2065+ **US Fund Target-Date Morningstar Cat**

88

Equity Stocks %

60k 60k 100

Growth of \$10,000

Performance UT-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Otr	Total %
2021	4.55	6.61	<u>-1</u>	5.66	16.46
2022	-5.63	-14.20	-6.60	9.24	-17.39
2023		1			7.04
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-7.46	6.51	5.61	I	7.63
Std 12-31-2022	-17.39		5.15	I	6.42
Total Return	-7.46	6.51	5.61		7.63
+/- Std Index	-0.88	2.64	1.32		
+/- Cat Index	-1.46	0.55	0.56		
% Rank Cat	25	S	49		
No. in Cat	162	52	14		

The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield 01-31-23 Performance Disclosure 7-day Yield Subsidized 2.06 Unsubsidized 2.06

+/- Category Index +/- Standard Index

1.55

20

01-23

4

Performance Quartile (within category)

2

13,362

Standard Index

Category Average 14,684

14,825

Vanguard Target Retirement 2065 Fund

27.23 7.04

NAV/Price History

Total Return %

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and

(if applicable) Morningstar metrics.

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 800-662-7447 or visit www.vanquard.co

	Front-End Load %	Sales Charges	Fees and Expenses	month-cita, picase can ooo-ooz-/++/ or visit www.vanguatu.com
:	Z			ilyuaiu.com

П		52 TUNDS ★	Morningstar Rating™
10 Yr	5Yr	3 Yr	
			Risk and Return Profile
0.08			Net Expense Ratio % Gross Expense Ratio %
NA			12b1 Expense %
0.00			Management Fees %
			Fund Expenses
NA			Deferred Load %
NA			Front-End Load %

-11.77%			Potential Cap Gains Exp
1.87%			12-Month Yield
99.63		98.66	R-Squared
0.94		1.35	Beta
-0.04		2.01	Alpha
Best Fit Index MSCI ACWI NR	MS B	Standard Index	MPT Statistics
	0.33	0.38	Sharpe Ratio
	5.61	6.51	Mean
1	16.61	19.18	Standard Deviation
10 Yr	5Yr	3 Yr	
		Avg	Morningstar Return
		-Avg	Morningstar Risk
1	ı	3 ⊁	Morningstar Rating [™]
I	14 funds	52 funds 1	!
10 Yr	5 Yr	3 Yr	

	012	012		1
I I	2013	2013		ı
	2014	2014		
	2015	2015		1
	2016	2016		I
88	2017	2017		I
88	2018	2018	-7.95 -3.19	0.75
88	2019	2019	24.96 5.94	0.00
90	2020	2020	16.17 3.35	3.28
88	2021	2021	16.46 6.26	0.13
87	2022	2022	-17.39 -2.62	-0.41
				$\overline{}$

0.85	35.0		<u>a.</u>	Avy IIIUEX Cat 16 Cyclical	ءَ .	vex ver	1 AVG	Ž	0/10-1:- 11/4	ב ר	nd Growth	Value Blend Growth
Rel Std Index	Stocks %		htings	Sector Weightings	÷≝∣ Se	Rel	Port	tistics	Portfolio Statistics	Port	tyle	Equity Style
2.93	4 mil Vanguard Total Intl Bd II Idx Insl	Vanguard I	4 mil		- 51 ⊕	0.55	100.55	100.00	_			Total
6.40	Vanguard Total Bond Market II ldx	Vanguard To	27 mil		. 0	0.0	0.04	0.04			Other/Not Clsfd	Other/N
35.92	Vanguard Total Intl Stock Index Inv	Vanguard I	80 mil		<u>→</u>	0.0	9.14	9.13				Bonds
03.81	iz mili vanguard lotal Stock tylkt lox insti	vanguard in			0 •	0.00	35.30	35.30			Non-US Stocks	Non-US
500	stal Otania Mit Ida Isaati	Vancuard Tatal	3	7022		0.00	53.01	53.01			ks	US Stocks
%	11,109 lotal Stocks , 14,205 lotal Fixed-Income,	11,109 lotal S 7% Turnovar B	Amount	3	·	0.54	3.06	2.52				Cash
Net Assets	-	Holdings:	Share	Chg		Short %	Long %	Net %		%	Asset Allocation %	Asset Al
									11-2023	/sis 01-3	Portfolio Analysis 01-31-2023	Portfo
		_	-			-	_	-			_	
	186 No. of Funds in Cat	162	134	ස	17	6	ı	Ι				1
	— % Rank Cat	16	76	සි	79	25		1				
	0.33 +/- Category Index	-0.41 -0.33	0.13	3.28	0.00	0.75	1			1		

₩ Sensitive					Style	Income Style
Real Estate				\$mil	llen	
I IIIdiicidi Selvices			60/10 1.38 1.03	Geo Avg Mkt Cap	S	
_		9	200		p	
Consumer Cyclical	1.02	1.08	2.3	P/B Ratio TTM	!W	
		1.02	11./	I/C Harlo I HVI	6	
Basic Materials		100	117	D/C Batio TTM	эвле	
_	_	.04	5./	P/E RATIO I IIVI	1	
יש ראכווכמו		2	1 7	D/F D.L. TTM	WID	Blend Growth
Calian		Index	Avg			2
Sector Weightings	Rel	Rel	Port	Portfolio Statistics		Style

d-Inco	d-Income Style		8.83
	чбін	Avg Eff Duration	6.76
		Avg Wtd Coupon	2.47
	palv	Avg Wtd Price	ı
	MOT		
it Oma	lity Brea	it Quality Breakdown 12-31-2022	Bond %
			56.28
			9.98

Industrials

Energy

6.4 5.4 11.5 17.9

0.89 0.88 0.98 0.49 1.13 1.17 1.17 1.04 1.00 1.25 1.06 0.91

Communication Services

Healthcare Defensive Technology

Consumer Defensive

23.8 7.4 13.3 3.1

Utilities

Credit Quality Breakdown 12-31-2022	1-2022	Bond %
AAA		56.28
AA		9.98
Α		17.56
BBB		15.36
BB		0.00
В		0.00
Below B		0.46
NR		0.36
Regional Exposure	Stocks %	Rel Std Index
Americas	64.0	1.04
Greater Europe	17.6	0.96
Greater Asia	18.4	0.92

Purchase:				
\$1,000	US92202E6804	VLXVX	USD	
Total Assets:	Туре:	Incept:	Purchase Constraints:	

롞 07-12-2017

\$4,007.08 mil

Family:

Manager:

Multiple

Ticker:

Base Currency:

Tenure:

Objective:

Asset Allocation 5.6 Years

Minimum Initial ISIN:

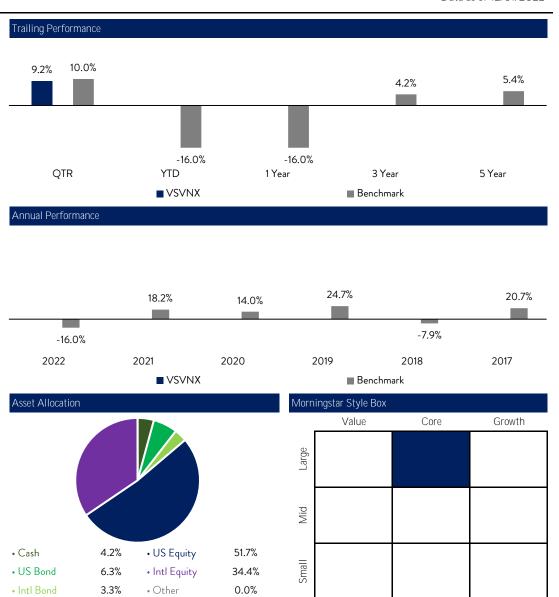
3	<
<u></u>	2

5.0 10.3 16.2 3.5

Product Details	
Name	Vanguard Target Retirement 2070 Fund
Ticker	VSVNX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date 2065+
Benchmark	S&P Target Date 2065+ TR USD
Inception Date	6/28/2022
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	0.67 Years
Fund Size	\$99,011,779

Fund Characteristics	VSVNX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	-
Average Market Cap (mil)	\$60,709	\$1,541
P/E Ratio (TTM)	15.69	0.61
P/B Ratio (TTM)	2.34	0.04
Est. Dividend Yield	2.56%	-0.08%

Sector Allocations	VSVNX	Category	+/- Category
Materials	5.1%	4.9%	0.2%
Communication Services	6.7%	6.4%	0.3%
Consumer Discretionary	10.9%	10.8%	0.2%
Consumer Staples	7.0%	7.2%	-0.2%
Healthcare	12.4%	13.3%	-0.8%
Industrials	11.3%	11.1%	0.2%
Real Estate	3.6%	4.1%	-0.5%
Technology	18.6%	18.2%	0.4%
Energy	5.2%	5.4%	-0.2%
Financial Services	16.3%	15.8%	0.5%
Utilities	2.9%	3.0%	0.0%
Other	0.0%	0.0%	0.0%



Vanguard Target Retirement 2070 Fund VSVNX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VSVNX	9.21%	-	-	- J Teal	- J Teal	-	Performance	4Q22	3Q22	2Q22	1Q22
Benchmark	10.03%	-15.95%	-15.95%	4.22%	5.38%	_	• VSVNX	9.21%	-6.57%	-	-
+/- Benchmark	-0.81%	-	-	-	-	_	Benchmark	10.03%	-6.04%	-14.44%	-4.98%
Peer Group Rank	54	-	-	-	-	-	+/- Benchmark	-0.81%	-0.52%	-	-
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VSVNX	-	-	-	-	-	-	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-15.95%	18.17%	13.99%	24.73%	-7.95%	20.75%	• VSVNX	-	-	-	-
+/- Benchmark	-	-	-	-	-	-	 Benchmark 	6.25%	-0.80%	6.16%	5.61%
Peer Group Rank	-	-	-	-	-	-	+/- Benchmark	-	-	-	-
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VSVNX	-	-	-	-	-	-	• VSVNX	-	-	-	-
• Benchmark	5.38%	4.50%	6.75%	10.91%	13.30%	12.47%	 Benchmark 	14.56%	6.61%	17.93%	-20.86%
+/- Benchmark	-	-	-	-	-	-	+/- Benchmark	-	-	-	-
Peer Group Rank	-	-	-	-	-	-					
							5-Year Quarterly				
Risk Statistics	3	Year	5`	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VSVNX	-	-	-	-
Alpha	-	0.00	-	0.00	-	-	 Benchmark 	7.81%	0.45%	3.37%	11.42%
Beta	-	1.00	-	1.00	-	-	+/- Benchmark	-	-	-	-
Standard Deviation	-	19.08	-	16.69	-	-					
Sharpe Ratio	-	0.27	-	0.32	-	-	5-Year Quarterly				
Information Ratio	-	-	-	-	-	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	-	3.37	-	4.04	-	-	• VSVNX	-	-	-	-
Upside Capture Ratio	-	100.00	-	100.00	-	-	Benchmark	-12.22%	3.97%	1.77%	-0.90%
Downside Capture Ratio	-	100.00	-	100.00	-	-	+/- Benchmark	-	-	-	-

(USD) Vanguard Target Retirement 2070 Fund

Standard Index

Morningstar Category Index

US Fund Target-Date **Morningstar Cat**

Incept	7.04	I		otal %	-		1
				I			
				1			
				1			
				1			
				1		Morning Tgt Risk	
				88		star Moo TR USD	
	40k	80k	100k	86		Morningstar Mod Morningstar US Fur Tgt Risk TR USD Lifetime Mod 2060 2065+ TR USD	
10,9	Van	Growth of \$10,000		Stocks %	Investment Style	ar 1od 2060	
10,923	 Vanguard Target Retirement 2070 Fund 	of \$10,000		oʻ	ent Style	US Fund Target-Date 2065+	

Performance 01-31-2023	31-2023					
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Otr	Total %	ı
2021						
2022			-6.57	9.21		
2023		1	1		7.04	
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept	
Load-adj Mthly					8.14	
Std 12-31-2022		1	1		1.02	
Total Return					8.14	
+/- Std Index						
+/- Cat Index						
% Rank Cat	1		1	1		
No. in Cat	I	I	I	I		2012
		2	Suheidizad	Hnei	Incubeidizad	

7-day Yield 30-day SEC Yield		
30-day SEC Yield		
Performance Disclosure		
The Overall Morningstar Rating is based on risk-adjusted returns,	d on risk-adjusted r	eturns,
derived from a weighted average of the three-, five-, and 10-year	three-, five-, and 1	10-year
/'		

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and (if applicable) Morningstar metrics

month-end, please call 800-662-7447 or visit www.vanguard.com. quoted herein. For performance data current to the most recent Current performance may be lower or higher than return data Fees and Expenses

Portfolio Analysis 01-31-2023	s 01-31-2023			Top Holdings 12-31-2022	1-2022	
Asset Allocation % 12-31-2022	2-31-2022 Net %	Long %	Short %	Share Chg Share	Holdings:	
Cash	1.93		0.55	Amount	11,109 Total Stocks , 14,412 Total Fixed-Income,	
US Stocks	53.14	53.14	0.00		44% Turnover nauo	
Non-US Stocks	35.19	35.19	0.00	⊕ ZZU,UZZ	Vanguard Total Stock Wikt Idx Insti	
Bonds	9.71	9.72	0.01	⊕ 2 mil	Vanguard Total Intl Stock Index Inv	
Other/Not Clsfd	0.04	0.04	0.00		Vanguard Total Bond Market II Idx	
Total	100.00	100.55	0.56	83,278	83,278 Vanguard Total Intl Bd II Idx Insl	
Equity Style	Portfolio Statistics		Rel	Sector Weightings	Stocks %	20
Value Blend Growth	P/F Ratio TTM	Avg Index 157 104	1 04 1 04	Դ Cyclical	35.9	
agre.	P/C Ratio TTM	-	2 1.04	Basic Materials	5.1	
P!W	P/B Ratio TTM	2.3 1.08	3 1.02	Consumer Cyclica		
S F	à	_		Financial Services		
llem	\$mil			Real Estate	3.6	
						i

ָ ֖֡֞֝	1	·F	E
me Style		\$	₩ Se
E oryto	Avg Eff Maturity	8.83	0
en !	Avg Eff Duration		E
ųŧ	Ava Wtd Coupon		<u>-</u>
pəW	Avg Wtd Price	 	
1		: [1
MOT		1	₽ ↓

Gross Expense Ratio %

0.08 0.08

Fixed-Inco

Net Expense Ratio % 12b1 Expense %

Risk and Return Profile

3 Yr 52 funds

5 Yr 14 funds

10 Yr

Management Fees %

0.00

K

Fund Expenses Deferred Load %

Front-End Load % Sales Charges

₹ ₹

	ı	I	1			2018					
	1	l	I		1	2019					
1	1	I	1		1	2020					
ı	ı	I			1	2021					
ı	1	ı		1	20.02	2022			•	\	
186	1	-0.32	1.56	7.04	21.43	01-23					
								#	9	10	20k
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)		10,694	— Standard Index	— Category Average 10.961

2013

2014

2015

2016

2017

0.88	35.9	_	் Cyclical	_	15.7 1.04	_
Rel Std Index	Stocks %	tings	Sector Weightings	Rel Rel	- 1	stics
2.96	83,278 Vanguard Total Intl Bd II Idx Insl	3,2/8 Va	(±)	0.56	100.55	0.00
6.95	Vanguard Total Bond Market II ldx	530,740 Va	⊕ 53	0.00	0.04	0.04
35.81	Vanguard Total Intl Stock Index Inv	2 mil Va	①	0.01	9.72	9.71
53.94	Vanguard Total Stock Mkt Idx Instl	221,022 Va		0.00	35.19	5.19
č	44% Turnover Ratio	449	22	0.55	53 14 53 14	3 1.93
Net Assets %	Share Holdings: Amount 11 109 Total Stocks 14 412 Total Fixed-Income	Share Holdings :	Share Chg	Short %	Long %	let %
	22	 s 12-31-20	Top Holdings 12-31-2022			
	— 186 No. of Funds in Cat		 			
	% Rank Cat	1	1	1	1	
	0.32 +/- Category Index	1		1		
	— 1.56 +/- Standard Index		 -			
	— 7.04 Total Return %			-		
	20.02 21.43 NAV/Price		1			ı

	Sector Weightings	Stocks %	Rel Std Index
	ி Cyclical	35.9	0.88
	Basic Materials	5.1	0.91
8 1.02	Consumer Cyclical	10.9	0.94
8 1.03	Financial Services	16.3	0.99
	▶ Real Estate	3.6	0.49
	∨ Sensitive	41.8	1.15
8.83	Communication Services	6.7	1.23
6.75	★ Energy	5.2	0.99
	ndustrials	11.3	0.99
	Technology	18.6	1.29
	→ Defensive	22.4	0.99
Dand o	Consumer Defensive	7.0	1.00
28 02 0110 %		12.4	1.03
9.66	Utilities	2.9	0.84
17.30			
15.29			
0.00			

Mean			
Sharpe Ratio	I		BB
MPT Statistics	Standard Index	Best Fit Index	В
Alpha			Below B
Beta	1		NR
R-Squared	I	1	Regional Exposure
12-Month Yield			Americas
Potential Cap Gains Exp		-11.54%	Greater Europe
			Greater Asia
Operations			

64.0 17.6 18.4

0.96

Rel Std Index

1.04

0.44 0.36 0.00 Standard Deviation

3 ☆

5Yr

10 Yr

₽

Credit Quality Breakdown 12-31-2022 AAA

Morningstar Return Morningstar Risk Morningstar Rating™

Minimum Initial Purchase:	ISIN:	Ticker:	Base Currency:	
\$1,000	US92202E6648	XNVSV	USD	
Total Assets:	Туре:	Incept:	Purchase Constraints:	
\$99.01 mil	MF	06-28-2022	l	

Manager:

Tenure: Family:

0.7 Year Vanguard

Multiple

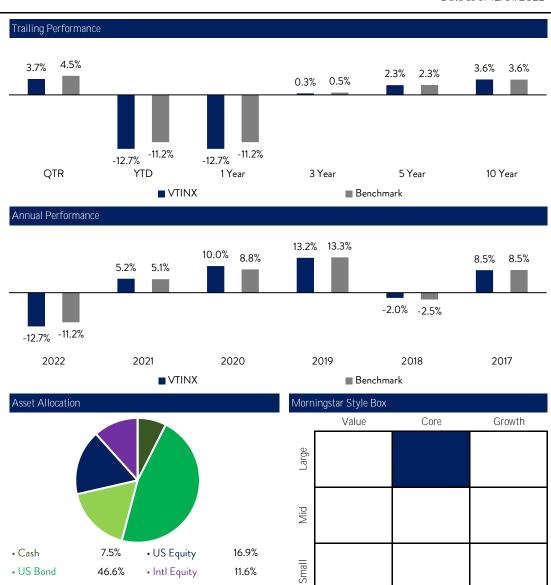
Asset Allocation

Objective:

Product Details	
Name	Vanguard Target Retirement Income Fund
Ticker	VTINX
Expense Ratio	0.080%
Morningstar Category	US Fund Target-Date Retirement
Benchmark	S&P Target Date Retirement Income TR USD
Inception Date	10/27/2003
Longest Tenured Manager	William A. Coleman; Walter Nejman;
Longest Manager Tenure	10.00 Years
Fund Size	\$37,747,931,982

Fund Characteristics	VTINX	+/- Category
% Assets in Top 10 Holdings	N/A (Fund of Funds)	-
Average Market Cap (mil)	\$60,104	\$2,352
P/E Ratio (TTM)	15.61	0.53
P/B Ratio (TTM)	2.33	0.10
Est. Dividend Yield	2.61%	-0.20%

Sector Allocations	VTINX	Category	+/- Category
Materials	5.0%	4.4%	0.6%
Communication Services	6.4%	6.0%	0.4%
Consumer Discretionary	10.3%	9.8%	0.4%
Consumer Staples	7.4%	7.0%	0.4%
Healthcare	13.2%	12.7%	0.5%
Industrials	11.5%	10.2%	1.3%
Real Estate	3.5%	8.5%	-5.0%
Technology	17.9%	17.8%	0.1%
Energy	5.4%	5.1%	0.3%
Financial Services	16.3%	15.2%	1.1%
Utilities	3.1%	3.2%	-0.1%
Other	0.0%	0.0%	0.0%



17.3%

• Other

0.0%

• Intl Bond

Vanguard Target Retirement Income Fund VTINX

Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VTINX	3.74%	-12.74%	-12.74%	0.34%	2.30%	3.62%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	4.50%	-11.17%	-11.17%	0.53%	2.33%	3.59%	• VTINX	3.74%	-4.64%	-7.37%	-4.77%
+/- Benchmark	-0.76%	-1.57%	-1.57%	-0.18%	-0.03%	0.03%	 Benchmark 	4.50%	-3.97%	-7.29%	-4.52%
Peer Group Rank	62	50	50	31	31	29	+/- Benchmark	-0.76%	-0.67%	-0.09%	-0.25%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VTINX	-12.74%	5.25%	10.02%	13.16%	-1.99%	8.47%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	-11.17%	5.11%	8.81%	13.33%	-2.54%	8.54%	• VTINX	2.01%	-0.13%	3.23%	0.08%
+/- Benchmark	-1.57%	0.14%	1.21%	-0.17%	0.55%	-0.07%	 Benchmark 	1.99%	-0.03%	3.06%	0.03%
Peer Group Rank	50	63	30	48	18	52	+/- Benchmark	0.03%	-0.11%	0.17%	0.04%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VTINX	2.30%	1.96%	3.34%	5.30%	6.85%	6.22%	• VTINX	5.15%	3.12%	7.84%	-5.91%
• Benchmark	2.33%	1.88%	3.13%	5.08%	6.52%	5.94%	• Benchmark	4.93%	2.73%	8.18%	-6.69%
+/- Benchmark	-0.03%	0.08%	0.21%	0.23%	0.34%	0.28%	+/- Benchmark	0.22%	0.39%	-0.34%	0.77%
Peer Group Rank	31	23	29	42	49	45					
							5-Year Quarterly				
Risk Statistics	3,	Year	5 '	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VTINX	2.60%	1.52%	2.97%	5.50%
Alpha	-0.16	0.00	-0.03	0.00	0.02	0.00	 Benchmark 	3.05%	1.32%	2.82%	5.57%
Beta	1.03	1.00	1.00	1.00	1.00	1.00	+/- Benchmark	-0.45%	0.21%	0.15%	-0.07%
Standard Deviation	8.59	8.33	7.16	7.09	5.62	5.56					
Sharpe Ratio	-0.02	0.00	0.17	0.17	0.51	0.51	5-Year Quarterly				
Information Ratio	-0.19	-	-0.03	-	0.04	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	-0.50	-0.33	0.95	0.99	2.79	2.77	• VTINX	-3.20%	1.33%	0.43%	-0.50%
Upside Capture Ratio	103.41	100.00	99.96	100.00	100.13	100.00	• Benchmark	-3.92%	1.55%	0.70%	-0.80%
Downside Capture Ratio	105.16	100.00	100.29	100.00	99.68	100.00	+/- Benchmark	0.72%	-0.22%	-0.27%	0.30%

Performance 01-31-2023	Income Fund (USD) ### Morningstar Mod Mornin ### Morningstar Mod Mornin ### Morningstar Mod Mornin ### Morningstar Mod Mornin ### 145 US Fund Target-Date Tgt Risk TR USD Lifetime ### Trush ##	Vanquard Target Retirement Mornings	
	er ★★★ 145 US Fund Target-Date Retirement	ystar Analyst Rating™ Overall Morningstar Rating¹	
	Morningstar Mod Morn Tgt Risk TR USD Lifet TR U	™ Standard Index	
Investment Styl	Morningstar US Fund T: Lifetime Mod Incm Retiremen TR USD	Category Index	
ent Style	US Fund Target-Date Retirement	Morningstar Cat	

Performance 01-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Otr	Total %
2021	0.08	3.23	-0.13	2.01	5.25
2022	-4.77	-7.37	-4.64	3.74	-12.74
2023		1			3.92
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-6.94	1.38	2.87	3.91	4.76
Std 12-31-2022	-12.74		2.30	3.62	4.57
Total Return	-6.94	1.38	2.87	3.91	4.76
+/- Std Index	-0.37	-2.49	-1.42	-2.17	1
+/- Cat Index	-0.90	-1.24	-0.58	-0.14	
% Rank Cat	55	43	35	39	
No. in Cat	161	145	127	81	

The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year 30-day SEC Yield 02-07-23 Performance Disclosure 7-day Yield 2.80 2.80

Subsidized

Unsubsidized

(if applicable) Morningstar metrics.

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. does not guarantee future results. The investment return and The performance data quoted represents past performance and

Portfolio Analysis 01-31-2023

month-end, please call 800-662-7447 or visit www.vanguard.com. quoted herein. For performance data current to the most recent Current performance may be lower or higher than return data Fees and Expenses

Sales Charges	
Front-End Load %	NA
Deferred Load %	N
Fund Expenses	
Management Fees %	0.00
10L1 T	-

Deterred Foar 'o			5
Fund Expenses			
Management Fees %			0.00
12b1 Expense %			NA
Net Expense Ratio %			0.08
Gross Expense Ratio %			0.08
Risk and Return Profile			
	3 Yr	5Yr	10 Yr
!	145 Tunds	12/ Tunds	SD Tunds
Morningstar Rating [™]	3 ★	4*	3★
Morningstar Risk	Avg	-Avg	Avg
Morningstar Return	Avg	Avg	Avg
	3 Yr	5Yr	10 Yr
Standard Deviation	8.86	7.34	5.73
Mean	1.38	2.87	3.91
Sharpe Ratio	0.09	0.23	0.55

Risk and Return Profile			
	3 Yr	5Yr	10 Yr
	145 funds -	127 funds	81 funds
Morningstar Rating™	3 ⊁	4★	3 ⊁
Morningstar Risk	Avg	-Avg	Avg
Morningstar Return	Avg	Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	8.86	7.34	5.73
Mean	1.38	2.87	3.91
Sharpe Ratio	0.09	0.23	0.55
MPT Statistics	Standard Index		Best Fit Index Morningstar US
		Mod Cor	Mod Con Tgt Alloc NR USD
Alpha	-1.54	4	-0.59
Beta	0.61	_	0.84
R-Squared	95.44	4	98.79
12-Month Yield			2.60%
Potential Cap Gains Exp			3.19%
Operations			

88 88

Below B

No. of Funds in Cat	163	161	167	168	183	187	175	171	172	272	293	281
% Rank Cat	1	72	Si	36	49	21	62	41	7	19	56	67
+/- Category Index	0.10	-0.50	-2.37	-0.54	-0.11	0.21	-0.07	-0.73	1.12	1.45	-0.58	-0.56
+/- Standard Index	-1.56	2.03	-4.94	-2.80	-5.87	2.77	-6.18	-3.32	1.62	0.65	-8.44	-3.82
Total Return %	3.92	-12.74	5.25	10.02	13.16	-1.99	8.47	5.25	-0.17	5.54	5.87	8.23
NAV/Price	12.72	12.24	14.46	14.93	14.05	12.75	13.55	12.81	12.45	12.91	12.50	12.19
History	01-23	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Performance Quartile (within category)												
Growth of \$10,000 Vanguard Target Retirement Income Fund 16,049 Category Average 15,562 Standard Index 20,808	100k 80k 40k 20k 10k	{ {	\	\{	<u>}</u>)	1	\)	\		
Investment Style Fixed-Income Bond %	64	65	2	68	67	69	67	68	68	66	66	<u>o</u>

Asset Allocation %	Net %	Long %	Short %	Share Ch
Cash	4.83	7.69	2.86	since
US Stocks	17.43	17.43	0.00	12-2022
Non-US Stocks	11.97	11.97	0.00	1
Bonds	65.74	65.79	0.04	①
Other/Not Clsfd	0.02	0.02	0.00	1
Total	100.00	102.90	2.90	D ⊕
Equity Style	Portfolio Statistics			(
Value Blend Growth	P/F Ratio TTM	Avg Index 15.6 1.03	2 × 1 Cat	Sector V
əbie	P/C Ratio TTM			් ර් ද
biM				B Ba
llsm2	\$mil	60104 1.37		1. 1

	llsm2 biM	P/B Ratio TTM Geo Avg Mkt Cap \$mil	2.3 60104	1.07 1.04 1.37 1.04	1.04 1.04
Fixed-Income Style	₹				
Ltd Mod Ext	7	Avg Eff Maturity			7.38
	giH	Avg Eff Duration			5.76
	Ч	Avg Wtd Coupon			2.05
	baM	Avg Wtd Price			93.00
	γоη				
Credit Quality Breakdown 12-31-2022	eak	down 12-31-2022			Bond %
AAA				_	66.57
AA					7.51
Þ					13.43
BBB					11 85

0.86	35.1	Դ Cvclical	3 5
Rel Std Index	Stocks %	Sector Weightings	1 Cat
	¢		Rel
12.19	255 mil Vanguard Total Intl Stock Index Inv	255 mil	
15.87	230 mil Vanguard Total Intl Bd II ldx Insl	⊕ 230 mil	2 90
16.27	260 mil Vanguard Shrt-Term Infl-Prot Sec I	① 260 mil	0.00
17.69	Vanguard Total Stock Mkt Idx Instl	① 36 mil	0.04
36.84	1,442 mil Vanguard Total Bond Market II ldx	1,442 mil	0.00
ŏ	19% Turnover Ratio	22	2.86
Net Assets	Holdings :	Share Chg Share	short %
		2	

or Weightings	Stocks %	Rel Std Index
Cyclical	35.1	0.86
Basic Materials	5.0	0.90
Consumer Cyclical	10.3	0.89
Financial Services	16.3	0.98
Real Estate	3.5	0.49
Sensitive	41.1	1.13
Communication Services	6.4	1.17
Energy	5.4	1.04
Industrials	11.5	1.00
Technology	17.9	1.25
Defensive	23.8	1.05
Consumer Defensive	7.4	1.05
Healthcare	13.2	1.10
Utilities	<u>ვ</u>	0.91

	1.03 0.98 0.94	11.85 0.00 0.00 0.00 0.34 0.29	7.51 13.43	Bond %		2.05 93.00	7.38 5.76	
Purchase Constraints: Incept: Type:			♣ Healthcare◆ Utilities	→ Defensive ☐ Consumer Defensive	■ Technology	♦ Energy	Sensitive Communication Services	Real Estate
— 10-27-2003 MF			13.2 3.1	23.8 7.4	17.9	5.4	41.1 6.4	3.5 5
			1.10 0.91	1.05 1.05	1.25	1.04	1.13 1.17	0.49

Objective: Manager: Family:

Tenure:

Multiple 10.0 Years Asset Allocation

> Ticker: Base Currency:

ISIN:

Minimum Initial Purchase:

\$1,000 XNILX USD

Total Assets:

\$37,747.93 mil

US92202E1029

Vanguard

Greater Europe Greater Asia

63.3 17.9 18.8

Rel

Americas Regional Exposure

124

The Voya Fixed Account is available through a group annuity or other type of contract issued by Voya Retirement Insurance and Annuity Company ("VRIAC" or the "Company"). The Voya Fixed Account is an obligation of VRIAC's general account which supports all of the Company's insurance and annuity commitments. All guarantees are based on the financial strength and claimspaying ability of VRIAC, which is solely responsible for all obligations under its contracts.

Asset Class: Stability of Principal

Important Information

This information should be read in conjunction with your contract prospectus, contract prospectus summary or disclosure booklet, as applicable. Please read them carefully before investing.

Voya Retirement Insurance and Annuity Company

One Orange Way Windsor, CT 06095-4774 www.voyaretirementplans.com

Investment Objective

Stability of principal is the primary objective of this investment option. The Voya Fixed Account guarantees minimum rates of interest and may credit interest that exceeds the guaranteed minimum rates. Daily credited interest becomes part of principal and the investment increases through compound interest. All amounts invested by your plan in the Voya Fixed Account receive the same credited rate. This is known as a portfoliomethod of interest rate crediting.

Key Features

The Voya Fixed Account is intended to be a long-term investment for participants seeking stability of principal. The assets supporting it are invested by VRIAC with this goal in mind. Therefore, VRIAC may impose restrictions on transfers and withdrawals involving the Voya Fixed Account if Competing Investment Options (as defined below) are offered. These restrictions help VRIAC to provide stable credited interest rates which historically have not varied significantly from month to month despite the general market's volatility in new money interest rates.

Restrictions on Transfers from the Voya Fixed Account

Transfers from the Voya Fixed Account will be subject the equity wash restrictions shown below.

Equity Wash Restrictions on Transfers

Transfers between investment options are allowed at any time, subject to the following provisions:

- (a) Direct transfers from the Voya
 Fixed Account cannot be made to a Competing Investment Option;
- (b) A transfer from the Voya Fixed Account to other investment options under the contract cannot be made if a transfer to a Competing Investment Option has taken place within 90 days;
- (c) A transfer from the Voya Fixed Account to other investment options under the contract cannot be made if a non-benefit withdrawal from a non-Competing Investment Option has taken place within 90 days; and
- has taken place within 90 days; and (d) A transfer from a non-Competing Investment Option to a Competing Investment Option cannot be made if a transfer from the Voya Fixed Account has taken place within 90 days.

Competing Investment Option As used throughout this document, a

Competing Investment Option is defined as any investment option that:

(a) Provides a direct or indirect

- investment performance guarantee, (b) Is, or may be, invested primarily in
- (b) Is, or may be, invested primarily in assets other than common or preferred stock;
 (c) Is, or may be, invested primarily in financial vehicles (such as mutual funds, trusts or insurance company contracts) which are invested in
- (d) Is available through an account with a brokerage firm designated by the Company and made available by the Contract Holder (as defined in the contract) as an additional investment under the plan;

preferred stock;

assets other than common or

- (e) Is a self-directed brokerage arrangement;
- (f) Is any fund with similar characteristics to the above as reasonably determined by the Company; or
- (g) Is any fund with a targeted duration of less than three years (e.g. money market funds).

For more information regarding Competing Investment Options in your plan, please contact the Customer Contact Center at (800) 584-6001.

Requests for Full Withdrawals

more information with a withdrawal fee schedule, the to you as a benefit payment. For contracts would not apply to any distribution made amount paid out over a period of 60 a Market Value Adjustment ("MVA") may transfer to another carrier within the plan, or if you surrender your account to or disclosure booklet, as applicable, for prospectus, contract prospectus summary fee. Please refer to your contract withdrawal may be subject to a withdrawal months, with interest paid). This MVA Holder may elect to have the surrendered portion of your account (or the Contract be applied to the Voya Fixed Account If the contract is surrendered completely,

Interest Rate Structure

of compounding into account, the interest applies for the life of the contract. The change after a defined period, but it will never be lower than the GMIR that period - currently one calendar year. The guaranteed minimum floor rate may at least monthly, and a guaranteed principal and a guaranteed minimum then current credited rate. credited to your account daily yields annual effective yields. Taking the effect floor rate and the GMIR are expressed as current rate, the guaranteed minimum minimum floor rate declared for a defined interest rates: a current rate, determined contract, as well as featuring two declared interest rate ("GMIR") for the life of the The Voya Fixed Account guarantees the

VRIAC's determination of credited interest rates reflects a number of factors, which may include mortality and expense risks, interest rate guarantees, the investment income earned on invested assets and the amortization of any capital gains and/or losses realized on the sale of invested assets. Under this option, VRIAC assumes the risk of investment gain or loss by guaranteeing the principal amount you allocate to this option and promising a minimum interest rate during the accumulation period and also throughout the annuity payout period, if applicable.

Currently, the guaranteed minimum floor rate equals the GMIR. The current rate to be credited under a contract may be higher than the GMIR/guaranteed minimum floor rate and may be changed at any time, except that VRIAC will not apply a decrease to the current rate following a rate change initiated solely by us prior to the last day of the three-month period measured from the first day of the

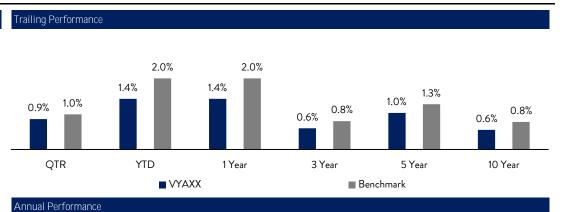
month in which such change was effective. The current rate for a plan's initial investment in the Voya Fixed Account may be in effect for less than a full three-month period.

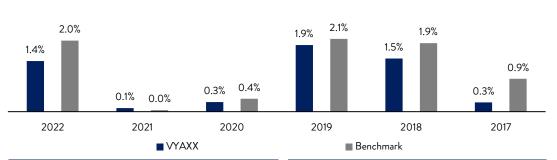
Any insurance products, annuities and funding agreements that you may have purchased are issued by Voya Retirement Insurance and Annuity Company ("VRIAC"). VRIAC is solely responsible for meeting its obligations. Plan administrative services provided by VRIAC or Voya Institutional Plan VRIAC or Voya Institutional Plan Services, LLC ("VIPS"). Neither VRIAC nor VIPS engage in the sale or solicitation of securities. If custodial or trust agreements are part of this arrangement, they may be provided by Voya Institutional Trust Company. All companies are members of the Voya® family of companies. Securities distributed by Voya Financial Partners, LLC (member SIPC) or other broker-dealers with which it has a selling agreement. All products or services may not be available in all states.

Product Details	
Name	Voya Government Money Market A
Ticker	VYAXX
Expense Ratio	0.400%
Morningstar Category	US Fund Money Market - Taxable
Benchmark	USTREAS Stat US T-Bill 90 Day TR
Inception Date	4/15/1994
Longest Tenured Manager	David S. Yealy
Longest Manager Tenure	18.25 Years
Fund Size	\$292,259,586

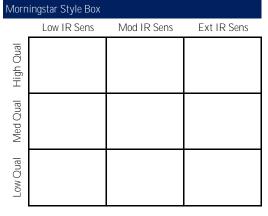
Fund Characteristics	VYAXX	+/- Category
% Assets in Top 10 Holdings	100.00%	94.50%
Average Eff Duration	-	-
Average Eff Maturity	-	-
Average Credit Quality	-	BBB (Cat Avg.)
Average Coupon	-	-

Sector Allocations	VYAXX	Category	+/- Category
Government	30.2%	20.6%	9.6%
Municipal	0.0%	0.2%	-0.2%
Bank Loan	0.0%	0.0%	0.0%
Convertible	0.0%	0.1%	-0.1%
Corporate Bond	0.0%	7.1%	-7.1%
Preferred Stock	0.0%	0.0%	0.0%
Agency MBS	0.0%	0.0%	0.0%
Non-Agency RMBS	0.0%	0.0%	0.0%
Commercial MBS	0.0%	0.0%	0.0%
Asset-Backed	0.0%	0.8%	-0.8%
Cash & Equivalents	69.8%	71.1%	-1.3%
Other	0.0%	0.0%	0.0%









Trailing Performance	QTR	YTD	1 Year	3 Year	5 Year	10 Year	5-Year Quarterly				
• VYAXX	0.86%	1.43%	1.43%	0.60%	1.04%	0.56%	Performance	4Q22	3Q22	2Q22	1Q22
• Benchmark	0.99%	2.01%	2.01%	0.80%	1.28%	0.78%	• VYAXX	0.86%	0.48%	0.09%	0.00%
+/- Benchmark	-0.14%	-0.58%	-0.58%	-0.20%	-0.24%	-0.22%	 Benchmark 	0.99%	0.66%	0.27%	0.08%
Peer Group Rank	21	33	33	27	40	44	+/- Benchmark	-0.14%	-0.18%	-0.18%	-0.08%
Annual Performance	2022	2021	2020	2019	2018	2017	5-Year Quarterly				
• VYAXX	1.43%	0.10%	0.27%	1.88%	1.51%	0.26%	Performance	4Q21	3Q21	2Q21	1Q21
• Benchmark	2.01%	0.04%	0.36%	2.06%	1.94%	0.93%	• VYAXX	0.00%	0.08%	0.00%	0.01%
+/- Benchmark	-0.58%	0.06%	-0.09%	-0.18%	-0.43%	-0.67%	• Benchmark	0.01%	0.01%	0.01%	0.01%
Peer Group Rank	33	2	54	47	47	79	+/- Benchmark	-0.01%	0.07%	0.00%	0.00%
	01/2018 -	10/2017 -	07/2017 -	04/2017 -	01/2017 -	10/2016 -	5-Year Quarterly				
Rolling 5-Year Performance	12/2022	09/2022	06/2022	03/2022	12/2021	09/2021	Performance	4Q20	3Q20	2Q20	1Q20
• VYAXX	1.04%	0.89%	0.81%	0.80%	0.80%	0.80%	• VYAXX	0.00%	0.00%	0.02%	0.25%
• Benchmark	1.28%	1.14%	1.06%	1.05%	1.06%	1.08%	• Benchmark	0.02%	0.03%	0.04%	0.28%
+/- Benchmark	-0.24%	-0.25%	-0.25%	-0.25%	-0.26%	-0.28%	+/- Benchmark	-0.02%	-0.03%	-0.02%	-0.03%
Peer Group Rank	40	44	48	51	53	52					
							5-Year Quarterly				
Risk Statistics	3	Year	5	Year	10	Year	Performance	4Q19	3Q19	2Q19	1Q19
	Manager	Benchmark	Manager	Benchmark	Manager	Benchmark	• VYAXX	0.32%	0.50%	0.53%	0.52%
Alpha	-0.07	0.00	-0.08	0.00	-0.12	0.00	 Benchmark 	0.39%	0.49%	0.57%	0.59%
Beta	3.68	1.00	3.49	1.00	3.63	1.00	+/- Benchmark	-0.07%	0.01%	-0.04%	-0.07%
Standard Deviation	0.30	0.36	0.29	0.33	0.25	0.28					
Sharpe Ratio	-2.23	-2.29	-3.23	-3.57	-2.87	-2.53	5-Year Quarterly				
Information Ratio	-2.06	-	-2.91	-	-2.71	-	Performance	4Q18	3Q18	2Q18	1Q18
Treynor Ratio	-0.07	-0.05	-0.09	-0.06	-0.07	-0.04	• VYAXX	0.47%	0.40%	0.35%	0.27%
Upside Capture Ratio	74.79	100.00	81.06	100.00	71.69	100.00	• Benchmark	0.57%	0.51%	0.46%	0.39%
Downside Capture Ratio	-	-	-	-	-	-	+/- Benchmark	-0.10%	-0.10%	-0.11%	-0.12%

Standardized and Tax Adjusted Returns Disclosure Statement

data quoted herein. For performance data current to the most recent month-end please visit http://advisor.morningstar.com/familyinfo.asp. fluctuate; thus an investor's shares, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than return The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will

reflect sales charges and ongoing fund expenses. Standardized Returns assume reinvestment of dividends and capital gains. They depict performance without adjusting for the effects of taxation, but are adjusted to

and sales charges. The maximum redemption fee is the maximum amount a fund may charge if redeemed in a specific time period after the fund's purchase. M&E risk charges, fund-level expenses such as management fees and operating fees, contract-level administration fees, and charges such as surrender, contract If adjusted for taxation, the performance quoted would be significantly reduced. For variable annuities, additional expenses will be taken into account, including

certain tax credits. Any taxes due are as of the time the distributions are made, and the taxable amount and tax character of each distribution are as specified by shares through tax-deferred arrangements such as 401(k) plans or an IRA. After-tax returns exclude the effects of either the alternative minimum tax or phase-out of tax returns depend on the investor's tax situation and may differ from those shown. The after-tax returns shown are not relevant to investors who hold their fund returns for exchange-traded funds are based on net asset value. the fund on the dividend declaration date. Due to foreign tax credits or realized capital losses, after-tax returns may be greater than before-tax returns. After-tax After-tax returns are calculated using the highest individual federal marginal income tax rates, and do not reflect the impact of state and local taxes. Actual after

Money Market Fund Disclosures

it to the applicable disclosure below: If money market fund(s) are included in the Standardized Returns table below, each money market fund's name will be followed by a superscripted letter that links

Institutional Money Market Funds (designated by an "S"):

what you originally paid for them. The fund may impose a fee upon sale of your shares or may temporarily suspend your ability to sell shares if the fund's liquidity expect that the sponsor will provide financial support to the fund at any time Insurance Corporation or any other government agency. The fund's sponsor has no legal obligation to provide financial support to the fund, and you should not falls below required minimums because of market conditions or other factors. An investment in the fund is not insured or guaranteed by the Federal Deposit You could lose money by investing in the fund. Because the share price of the fund will fluctuate, when you sell your shares they may be worth more or less than

Government Money Market Funds that have chosen to rely on the ability to impose liquidity fees and suspend redemptions (designated by an "L")

Retail Money Market Funds (designated by an "L"):

financial support to the fund at any time. government agency. The fund's sponsor has no legal obligation to provide financial support to the fund, and you should not expect that the sponsor will provide because of market conditions or other factors. An investment in the fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other so. The fund may impose a fee upon sale of your shares or may temporarily suspend your ability to sell shares if the fund's liquidity falls below required minimums You could lose money by investing in the fund. Although the fund seeks to preserve the value of your investment at \$1.00 per share, it cannot guarantee it will do

Government Money Market Funds that have chosen not to rely on the ability to impose liquidity fees and suspend redemptions (designated by an

legal obligation to provide financial support to the fund, and you should not expect that the sponsor will provide financial support to the fund at any time. so. An investment in the fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The fund's sponsor has no You could lose money by investing in the fund. Although the fund seeks to preserve the value of your investment at \$1.00 per share, it cannot guarantee it will do

Annualized returns 12-31-2022												
Standardized Returns (%)	7-day Yield 7-day Yield Subsidized Unsubsidized as of date as of date	ield ized date	1Yr	5Yr	10Yr	Since In Inception	Inception Ma Date I	Max Front Max Back	Max Back Load %	Net Exp Ratio %	Gross Exp Max Ratio % Redemption %	Max nption %
Baron Growth Instl			-22.40	11.15	12.33	13.78 05-29-200	9-2009	NA	NA	1.04	1.04	A
Fidelity® 500 Index			-18.13	9.41	12.55	11.57 05-04-201	4-2011	NA	NA	0.02	0.02	NA
Fidelity® Interm Trs Bd Index	1		-12.72	0.06		-0.03 10-04-201	4-2017	NA	NA	0.03	0.03	NA
Fidelity® Mid Cap Index			-17.28	7.10	10.95	11.60 09-08-201	8-2011	AN	NA	0.03	0.03	NA
Fidelity® Small Cap Index	1		-20.27	4.22	9.17	10.19 09-08-201	8-2011	NA	NA	0.03	0.03	NA
Fidelity® Total International Index	1	1	-16.28	0.96	1	4.62 06-07-2016	06-07-2016	N N	N A	0.06	0.06	NA
Fidelity® US Bond Index	I		-13.03	-0.02	1.01	1.71 05-04-201	4-2011	NA	NA	0.03	0.03	NA

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Baron Growth Instl Fidelity® 500 Index Fidelity® Interm Trs Bd Index Fidelity® Mid Cap Index -17.91	Contractual waiver; Expires 02-28-2023 Contractual waiver; Expires 09-30-2023 Contractual waiver; Expires 01-31-2024 Return after Tax (%)	Russell Mid Cap TR USD S&P 500 TR USD USTREAS T-Bill Auction Ave 3 Mon	Russell 2000 TR USD Russell Mid Cap Growth TR USD	MSCI ACWI NR USD MSCI EAFE NR USD RISSOII 1000 TR USD	Morningstar US Sml Ext TR USD MSCI ACVVI Ex USA NR USD	Morningstar US Core Boll K USD Morningstar US Mid Brd Grt TR USD Morningstar US Mod Con Tgt Alloc NR USD	Morningstar Mod Tgt Risk TR USD	Morningstar Lifetime Mod Incm TR USD	Morningstar Lifetime Mod 2055 TR USD Morningstar Lifetime Mod 2060 TR USD	Morningstar Lifetime Mod 2050 TR USD	Morningstar Lifetime Mod 2040 TR USD Morningstar Lifetime Mod 2045 TR USD	Morningstar Lifetime Mod 2035 TR USD	Morningstar Lifetime Mod 2025 TR USD Morningstar Lifetime Mod 2030 TR USD	Morningstar Lifetime Mod 2020 TR USD	Morningstar GbI Allocation TR USD	Bloomberg US Government TR USD	Bloomberg US Agg Bond TR USD	Vanguard Target Retirement Income Fund —	Vanguard Target Retirement 2065 Fund	Vanguard Target Retirement 2060 Fund —	Vanguard Target Retirement 2055 Fund —	Vanguard Target Retirement 2045 Fund ———————————————————————————————————	Vanguard Target Retirement 2040 Fund —	Vanguard Target Retirement 2035 Fund —	Vanguard Target Retirement 2030 Fund —	Vanguard Target Betirement 2025 Fund —	Sterling Capital Total Return Bond R6 Vanguard Target Retirement 2020 Fined	MFS Intl Diversification R6	Hartford Core Equity R6 Hartford Schroders US Small Cap Opps SDR	Subsidized as of date
5Yr 9.73 8.79 -0.56 6.31	3																				1				1				1 1	as of date as of date
		-17.32 -18.11 2.14	-20.44 -26.72	-18.36 -14.45	-19.26 -16.00	-12.99 -25.83 -14.06	-14.77	-12.24	-16.93 -16.98	-16.91	-17.3/ -17.06	-17.75	-17.58 -17.94	-16.77	-17.10	-12.32	-13.01	-12.74	-17.39	-17.46	-17.46	-17.36	-16.98	-16.62	-16.27	-15.55	-13.15	-17.02	-18.65 -16.67	
10Yr \$ 10.63 11.82 — 10.08		7.10 9.42 1.34	4.13 7.64	5.23 1.54 9.13	0.88	1 1 1	3.73	2.95	4.55 4.46	4.62	4.36 4.58	3.97	3.20 3.54	3.02	2.86	0.06	0.02	2.30	5.15	5.18	5.18	5.14 5.18	4.74	4.34	3.94	3.58	3 77	3.00	9.63 5.49	
Since Inception 12.36 10.82 -0.66 10.77		10.96 12.56 0.82	9.01 11.41	7.98 4.67	3.80	1 1 1	5.82	3.82	7.59	7.68	7.70	7.14	5.79 6.51	5.16	8	0.60	1.06	3.62		8.34	8.34	8.34 3.6	8.06	7.57	6.99	6.43	ກ ໝ	1	1 1	
		1 1 1			1 1		1	I	1 1	ı	1 1	I	1 1	I			1	4.57	6.42 1.02	8.59	8.97	7.40 6.70	6.59	6.83	6.02	6 13	0.71 5.52	3.98	10.13 8.95	Inception
05-29-2009 05-04-2011 10-04-2017 09-08-2011		12-31-1978 01-30-1970 02-28-1941	12-31-1978 02-01-1995	01-01-2001 03-31-1986 12-31-1978	12-21-2020 01-01-2001	12-21-2020 06-30-2020	02-18-2009	02-18-2009	02-18-2009 06-23-2014	02-18-2009	02-18-2009	02-18-2009	02-18-2009 02-18-2009	02-18-2009	06-18-2013	01-03-1989	01-03-1980	10-27-2003	07-12-2017 06-28-2022	01-19-2012	08-18-2010	10-27-2003	06-07-2006	10-27-2003	06-07-2006	10-27-2003	02-01-2018	10-02-2017	03-31-2015 09-28-2015	Date
1Yr -12.52 -10.73 -7.31 -10.17	On Distri																	NA	N N	NA	N S	2 Z	N A	NA	NA :	N A	N N	NA	N N	Date Load % Load %
	On Distribution and Sales of																	NA	Z Z	NA	N S	z z	NA	¥	NA :	2 2 2 2	Z Z	NA	N N	Loag %
5Yr 8.85 7.26 -0.02 5.41	ales of Shares																	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.353	0.722	0.36 0.95¹	nauo %
10Yr 9.87 10.18 — 8.77	ν																		8 0.08 8 0.08			0.08				0.08		2 0.73		
Since Inception 11.53 9.38 -0.10 9.44																			8 8 NA			NA NA					NA NA	3 NA		Ratio % Redemption %

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Return after Tax (%)	On Distribution					On Distribution and Sales	n and Sales of Shares		
	1Yr	5Yr	10Yr	Since Inception	Inception Date	1Yr	5Yr	10Yr	Since Inception
Fidelity® Small Cap Index	-20.68	3.42	8.20	9.25	09-08-2011	-12.00	3.14	7.19	8.15
Fidelity® Total International Index	-17.12	0.26	1	3.91	06-07-2016	-9.64	0.58	1	3.42
Fidelity® US Bond Index	-13.54	-0.74	0.10	0.76	05-04-2011	-7.38	-0.09	0.48	1.02
Hartford Core Equity R6	-19.59	8.65	1	9.17	03-31-2015	-10.66	7.41		7.92
Hartford Schroders US Small Cap Opps SDR	-16.88	4.08	1	7.12	09-28-2015	-9.75	4.11		6.79
MFS Intl Diversification R6	-17.67	2.11		3.04	10-02-2017	-9.81	2.04		2.81
Sterling Capital Total Return Bond R6	-14.14	1	1	-0.62	02-01-2018	-7.77	1	1	0.05
Vanguard Target Retirement 2020 Fund	-15.36	1.25	4.34	4.39	06-07-2006	-7.92	2.33	4.38	4.26
Vanguard Target Retirement 2025 Fund	-16.29	2.05	5.15	5.18	10-27-2003	-8.95	2.64	4.89	4.84
Vanguard Target Retirement 2030 Fund	-16.88	2.52	5.82	5.14	06-07-2006	-9.40	2.96	5.40	4.75
Vanguard Target Retirement 2035 Fund	-17.25	2.87	6.35	5.96	10-27-2003	-9.57	3.31	5.90	5.50
Vanguard Target Retirement 2040 Fund	-17.58	3.28	6.90	5.73	06-07-2006	-9.79	3.66	6.36	5.29
Vanguard Target Retirement 2045 Fund	-17.97	3.89	7.29	6.63	10-27-2003	-9.98	3.97	6.59	6.07
Vanguard Target Retirement 2050 Fund	-18.00	4.06	7.41	6.05	06-07-2006	-10.08	3.99	6.61	5.47
Vanguard Target Retirement 2055 Fund	-17.96	4.19	7.50	8.21	08-18-2010	-10.11	3.97	6.62	7.28
Vanguard Target Retirement 2060 Fund	-17.94	4.38	7.61	7.90	01-19-2012	-10.12	3.93	6.60	6.87
Vanguard Target Retirement 2065 Fund	-17.85	4.61	1	5.88	07-12-2017	-10.09	3.92	1	4.92
Vanguard Target Retirement 2070 Fund				0.76	06-28-2022				0.72
Vanguard Target Betirement Income Fund	-13.67	0.94	2.44	3.43	10-27-2003	-7.40	1.47	2.49	3.28



Mutual Fund Detail Report Disclosure Statement

The Mutual Fund Detail Report is supplemental sales literature, and therefore must be preceded or accompanied by the mutual fund's current prospectus or an equivalent statement. Please read this information carefully. In all cases, this disclosure statement should accompany the Mutual Fund Detail Report. Morningstar is not itself a FINRA-member firm.

All data presented is based on the most recent information available to Morningstar as of the release date and may or may not be an accurate reflection of current data for securities included in the fund's portfolio. There is no assurance that the data will remain the same.

Unless otherwise specified, the definition of "funds" used throughout this Disclosure Statement includes closed-end funds, exchange-traded funds, grantor trusts, index mutual funds, open-ended mutual funds, and unit investment trusts. It does not include exchange-traded notes or exchange-traded commodities

Prior to 2016, Morningstar's methodology evaluated open-end mutual funds and exchange-traded funds as separate groups. Each group contained a subset of the current investments included in our current comparative analysis. In this report, historical data presented on a calendar-year basis and trailing periods ending at the most-recent month-end reflect the updated methodology.

Risk measures (such as alpha, beta, r-squared, standard deviation, mean, or Sharpe ratio) are calculated for securities or portfolios that have at least a three-year history.

Most Morningstar rankings do not include any adjustment for one-time sales charges, or loads. Morningstar does publish load-adjusted returns, and ranks such returns within a Morningstar Category in certain reports. The total returns for ETFs and fund share classes without one-time loads are equal to Morningstar's calculation of load-adjusted returns. Share classes that are subject to one-time loads relating to advice or sales commissions have their returns adjusted as part of the load-adjusted return calculation to reflect those loads

Comparison of Fund Types

Funds, including closed-end funds, exchange-traded funds (ETFs), money market funds, open-end funds, and unit investment trusts (UITs), have many similarities, but also many important differences. In general, publically-offered funds are investment companies registered with the Securities and Exchange Commission under the Investment Company Act of 1940, as amended. Funds pool money from their investors and manage it according to an investment strategy or objective, which can vary greatly from fund to fund. Funds have the ability to offer diversification and professional management, but also involve risk, including the loss of principal.

A closed-end fund is an investment company, which typically makes one public offering of a fixed number of shares. Thereafter, shares are traded on a secondary market. As a result, the secondary market price may be higher or lower than the closed-end fund's net asset value (NAV). If these shares trade at a price above their NAV, they are said to be trading at a premium. Conversely, if they are trading at a price below their NAV, they are said to be trading at a discount. A closed-end mutual fund's expense ratio is an annual fee charged to a shareholder. It includes operating expenses and management fees, but does not take into account any brokerage costs. Closed-end funds may also have 12b-1 fees. Income distributions and capital gains of the closed-end fund are subject

to income tax, if held in a taxable account.

between an ETF's holdings and those of its underlying index may cause its considered to be more tax-efficient when compared to similarly invested mutual account are subject to income tax. In many, but not all cases, ETFs are generally do not have 12b-1 fees or sales loads. Capital gains from funds held in a taxable and management fees, but does not take into account any brokerage costs. ETFs segments relating to their underlying indexes. Similarly, an imperfect match managed, so their value may be affected by a general decline in the U.S. market their NAV, they are said to be trading at a discount. ETFs are not actively said to be trading at a premium. Conversely, if they are trading at a price below secondary market and thus have a market price that may be higher or lower than index it is seeking to imitate. Like closed-end funds, an ETF can be traded on a striving to achieve a similar return as a particular market index. The ETF will ETF is an annual fee charged to a shareholder. It includes operating expenses performance to vary from that of its underlying index. The expense ratio of an its net asset value. If these shares trade at a price above their NAV, they are invest in either all or a representative sample of the securities included in the An ETF is an investment company that typically has an investment objective of

Holding company depository receipts (HOLDRs) are similar to ETFs, but they focus on narrow industry groups. HOLDRs initially own 20 stocks, which are unmanaged, and can become more concentrated due to mergers, or the disparate performance of their holdings. HOLDRs can only be bought in 100-share increments. Investors may exchange shares of a HOLDR for its underlying stocks at any time.

A money-market fund is an investment company that invests in commercial paper, banker's acceptances, repurchase agreements, government securities, certificates of deposit and other highly liquid securities, and pays money market rates of interest. Money markets are not FDIC-insured, may lose money, and are not guaranteed by a bank or other financial institution.

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An open-end fund is an investment company that issues shares on a continuous basis. Shares can be purchased from the open-end mutual fund itself, or through an intermediary, but cannot be traded on a secondary market, such as the New York Stock Exchange. Investors pay the open-end mutual fund's current net asset value plus any initial sales loads. Net asset value is calculated daily, at the close of business. Open-end mutual fund shares can be redeemed, or sold back to the fund or intermediary, at their current net asset value minus any deferred sales loads or redemption fees. The expense ratio for an open-end mutual fund is an annual fee charged to a shareholder. It includes operating expenses and management fees, but does not take into account any brokerage costs. Open-end funds may also have 12b-1 fees. Income distributions and capital gains of the open-end fund are subject to income tax, if held in a taxable account.

A unit investment trust (UIT) is an investment company organized under a trust agreement between a sponsor and trustee. UITs typically purchase a fixed portfolio of securities and then sell units in the trust to investors. The major difference between a UIT and a mutual fund is that a mutual fund is actively managed, while a UIT is not. On a periodic basis, UITs usually distribute to the unit holder their pro rata share of the trust is net investment income and net realized capital gains, if any. If the trust is one that invests only in tax-free securities, then the income from the trust is also tax-free. UITs generally make one public offering of a fixed number of units. However, in some cases, the sponsor will maintain a secondary market that allows existing unit holders to sell their units and for new investors to buy units. A one-time initial sales charge is deducted from an investment made into the trust. UIT investors may also pay creation and development fees, organization costs, and/or trustee and operation expenses. UIT units may be redeemed by the sponsor at their net

over into successive trusts as part of a long-term strategy. A rollover fee may be the sales proceeds are paid to the investor. Typically, a UIT investment is rolled have set termination dates, at which point the underlying securities are sold and associated with rolling over an investment from one trust to the next. charged for the exercise of rollover purchases. There are tax consequences asset value minus a deferred sales charge, and sold to other investors. UITs

considered indicative of future results. Principal value and investment return will are not FDIC-insured, may lose value, and are not guaranteed by a bank or other than the original investment. Fund portfolio statistics change over time. Funds fluctuate, so that an investor's shares, when sold, may be worth more or less financial institution. The performance data given represents past performance and should not be

Medicare surcharge, or 41.7%. This rate changes periodically in accordance surcharge. As of 2018, this rate is 37% plus 3.8% investment income plus 0.9% with changes in federal law. marginal income tax rate plus the investment income tax and Medicare Morningstar calculates after-tax returns using the highest applicable federal

Pre-Inception Returns

report ("Report Share Class"). If pre-inception returns are shown, a performance returns please see the Morningstar Extended Performance Methodology. lower expenses. For more information regarding calculation of pre-inception in the Report Share Class, we do not hypothetically adjust returns upwards for Morningstar adjusts pre-inception returns downward to reflect higher expenses stream consisting of the Report Share Class and older share class(es) is created for periods prior to the inception of the share class of the fund shown in this The analysis in this report may be based, in part, on adjusted historical returns

top of the report will indicate this. In addition, the pre-inception data included in the report will appear in italics. When pre-inception data is presented in the report, the header at the

calculate the pre-performance string will likely vary from the underlying by Morningstar may differ from those applied by other entities, including the actual returns. The underlying investments in the share classes used to operating expenses and sales charges. These adjusted historical returns are not from that of an institutional share class, as retail shares tend to have higher that behavior. For example, the fee structures of a retail share class will vary be aware that an adjusted historical return can only provide an approximation of probable long-term behavior of newer share classes of a fund, investors should investments held in the fund after inception. Calculation methodologies utilized While the inclusion of pre-inception data provides valuable insight into the

12b1 Expense %

used as a commission to brokers for selling the fund. taken from a fund's returns A 12b-1 fee is a fee used to pay for a mutual fund's distribution costs. It is often The amount of the fee is

portfolio manager beta.) Alpha is often seen as a measure of the value added or subtracted by returns and its expected performance, given its level of risk (as measured by Alpha is a measure of the difference between a security or portfolio's actual

Asset Allocation

Asset Allocation reflects asset class weightings of the portfolio. The "Other"

allocation data in several ways, including tables or pie charts. In addition, classes, such as convertible bonds and preferred stocks, or cannot be classified Morningstar may compare the asset class breakdown of the fund against its by Morningstar as a result of missing data. Morningstar may display asset category includes security types that are not neatly classified in the other asset three-year average, category average, and/or index proxy.

the investor will experience a loss buying it at a higher price than the sale price investors get a more robust description of the fund's exposure and risk. Long what the fund's managers are buying and how they are positioning the fund's short, and net (long positions net of short) positions. These statistics summarize back at some point in the future. If the price falls after the short sale, the positions involve buying the security outright and selling it later, with the hope portfolio. When short positions are captured in these portfolio statistics, in a profit. However, if the price of the security increases after the short sale, investor will have sold high and can buy low to close the short position and lock from another investor, sells it and receives cash, and then is obligated to buy it benefitting from anticipated price declines. The investor borrows the security the security's price rises over time. Short positions are taken with the hope of Asset allocations shown in tables may include a breakdown among the long

underlying a pie chart's generation. Because of the nature of how these presentation.) breakdowns may rescale identified characteristics to 100% for more intuitive unidentified characteristics of fund holdings are material, pie charts and other portfolio information to report asset allocation. Morningstar, at its discretion, securities are reported to Morningstar, we may not always get complete data to Morningstar that does not meet the parameters of the calculation short positions or portfolio with relatively exotic derivative positions often report characteristics. Portfolios that incorporate investment strategies resulting in enhance returns, or reduce risk. Some of these securities and strategies behave short positions or derivatives, in an attempt to reduce transaction costs, equities and bonds. Morningstar may generate a colored pie chart for these percentages total to 100 percent. (Morningstar used discretion to determine if Asset allocation and other breakdowns may be rescaled accordingly so that may determine if unidentified characteristics of fund holdings are material. like conventional securities, while other have unique return and risk portfolios. Other portfolios use other investment strategies or securities, such as Most fund portfolios hold fairly conventional securities, such as long positions in

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Note that all other portfolio statistics presented in this report are based on the long (or long rescaled) holdings of the fund only.

Average Effective Duration

securities within a portfolio effective duration is a weighted average of the duration of the fixed-income Duration is a time measure of a bond's interest-rate sensitivity. Average

Average Effective Maturity

ın a portfolio Average Effective Maturity is a weighted average of the maturities of all bonds

Average Weighted Coupon

weighted coupon is the asset-weighted coupon of each bond in the A coupon is the fixed annual percentage paid out on a bond. The average portfolio

Average Weighted Price

discount securities respectively.) expressed as a percentage of par (face) value. This number reveals if the Average Weighted Price is the asset-weighted price of bonds held in a portfolio, portfolio favors bonds selling at prices above or below par value (premium or



Best Fit Index

Alpha, beta, and R-squared statistics are presented for a broad market index and a "best fit" index. The Best Fit Index identified in this report was determined by Morningstar by calculating R-squared for the fund against approximately 100 indexes tracked by Morningstar. The index representing the highest R-squared is identified as the best fit index. The best fit index may not be the fund's benchmark, nor does it necessarily contain the types of securities that may be held by the fund or portfolio.

Beta

Beta is a measure of a security or portfolio's sensitivity to market movements (proxied using an index.) A beta of greater than 1 indicates more volatility than the market, and a beta of less than 1 indicates less volatility than the market.

Credit Quality Breakdown

Credit Quality breakdowns are shown for corporate-bond holdings in the fund's portfolio and depict the quality of bonds in the underlying portfolio. It shows the percentage of fixed-income securities that fall within each credit-quality rating as assigned by a Nationally Recognized Statistical Rating Organization (NRSRO). Bonds not rated by an NRSRO are included in the Other/Not-Classified category.

Deferred Load %

The back-end sales charge or deferred load is imposed when an investor redeems shares of a fund. The percentage of the load charged generally declines the longer the fund's shares are held by the investor. This charge, coupled with 12b-1 fees, commonly serves as an alternative to a traditional front-end load.

Expense Ratio %

The expense ratio is the annual fee that all funds charge their shareholders. It 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 front-end 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. The gross expense ratio, in contrast to the net expense ratio, does not reflect any fee waivers in effect during the time period.

Front-end Load %

The initial sales charge or front-end load is a deduction made from each investment in the fund and is generally based on the amount of the investment.

Geometric Average Market Capitalization

Geometric Average Market Capitalization is a measure of the size of the companies in which a portfolio invests.

Growth of 10,000

For funds, this graph compares the growth of an investment of 10,000 (in the base currency of the fund) with that of an index and/or with that of the average for all funds in its Morningstar Category. The total returns are not adjusted to reflect sales charges or the effects of taxation but are adjusted to reflect actual ongoing fund expenses, and they assume reinvestment of dividends and capital gains. If adjusted, effects of sales charges and taxation would reduce the performance quoted. If pre-inception data is included in the analysis, it will be graphed.

The index in the Growth of 10,000 graph is an unmanaged portfolio of specified securities and cannot be invested in directly. The index does not reflect any initial or ongoing expenses. A fund's portfolio may differ significantly from the securities in the index. The index is chosen by Morningstar.

Management Fees %

The management fee includes the management and administrative fees listed in the Management Fees section of a fund's prospectus. Typically, these fees represent the costs shareholders paid for management and administrative services over the fund's prior fiscal year.

Maximum Redemption Fee %

The Maximum Redemption Fee is the maximum amount a fund may charge i redeemed in a specific time period after the fund's purchase (for example, 3 180, or 365 days).

Mean

Mean is the annualized geometric return for the period shown

Morningstar Analyst Rating™

is directly subtracted from an expected gross alpha estimate derived from the analysis of people and process; price at the share-class level (where applicable) evaluation performed by Morningstar's manager research group, which consists modification by alpha dispersion is not used. peer groups of investment products using alternative investment strategies, the certain peer groups where standard benchmarking is not applicable, primarily process and parent on the final Morningstar Analyst Rating is further modified analysis of the other pillars. The impact of the weighted pillar scores for people, strategies, performance has no explicit weight as it is incorporated into the people and parent each receive a 10% weighting. For both active and passive weighting. For passive strategies, process receives an 80% weighting, while term on a risk adjusted basis. They consider quantitative and qualitative factors pillars, which are process, performance, people, parent, and price. The Manager The Manager Research Group evaluates investment products based on five key registered with and governed by the U.S. Securities and Exchange Commission United States, that subsidiary is Morningstar Research Services LLC, which is of various Morningstar, Inc. subsidiaries ("Manager Research Group"). In the The Morningstar Analyst Rating TM is not a credit or risk rating. It is a subjective by a measure of the dispersion of historical alphas among relevant peers. For receive a 45% weighting in their analysis, while parent receives a 10% in their research. For actively managed strategies, people and process each investment products are likely to perform relative to a benchmark over the long Research Group uses this five-pillar evaluation to determine how they believe

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Separately managed accounts are rated using the methodology for actively managed funds. A proxy fee is deducted from all separately managed accounts in a given Morningstar Category. The proxy fee is based on a survey of separately managed account model-delivery fees.

investment strategies, a Morningstar Analyst Rating of Gold, Silver, or Bronze reflects the Manager Research Group's expectation that an investment product active investment product will be able to deliver positive alpha net of fees peer group. Morningstar Analyst Ratings ultimately reflect the Manager will deliver a weighted pillar score above a predetermined threshold within its not applicable, primarily peer groups of investment products using alternative expected net alpha relative to Morningstar category peers for passive will be able to deliver a higher alpha net of fees than the lesser of the relevant investment products, a Morningstar Analyst Rating of Gold, Silver, or Bronze to Morningstar category peers for active investment products. For passive Silver, or Bronze reflects the Manager Research Group's expectation that an Negative. For active investment products, a Morningstar Analyst Rating of Gold investment products. For certain peer groups where standard benchmarking Morningstar category median or 0. The level of the rating relates to the level of reflects the Manager Research Group's expectation that an investment product The level of the rating relates to the level of expected positive net alpha relative relative to the standard benchmark index assigned to the Morningstar category. The Morningstar Analyst Rating scale is Gold, Silver, Bronze, Neutral, and



Research Group's overall assessment, are overseen by an Analyst Rating Committee, and are continuously monitored and reevaluated at least every 14 months.

For more detailed information about Morningstar's Analyst Rating, including its methodology, please go to http://global.morningstar.com/equitydisclosure.

The Morningstar Analyst Rating (i) should not be used as the sole basis in evaluating an investment product, (ii) involves unknown risks and uncertainties which may cause the Manager Research Group's expectations not to occur or to differ significantly from what they expected, and (iii) should not be considered an offer or solicitation to buy or sell the investment product

Morningstar Quantitative Rating™

Morningstar's quantitative fund ratings consist of: (i) Morningstar Quantitative Rating (overall score), (ii) Quantitative Parent pillar, (iii) Quantitative People pillar, and (iv) Quantitative Process pillar (collectively the "Quantitative Fund Ratings"). The Quantitative Fund Ratings are calculated monthly and derived from the analyst-driven ratings of a fund's peers as determined by statistical algorithms. Morningstar, Inc. calculates Quantitative Fund Ratings for funds when an analyst rating does not exist as part of its qualitative coverage.

• Morningstar Quantitative Rating: Intended to be comparable to Morningstar's Analyst Ratings for open-end funds and ETFs, which is the summary expression of Morningstar's forward-looking analysis of a fund. The Morningstar Analyst Rating is based on the analyst's conviction in the fund's ability to outperform its peer group and/or relevant benchmark on a risk-adjusted basis over a full market cycle of at least 5 years. Ratings are assigned on a five-tier scale with three positive ratings of Gold, Silver, and Bronze, a Neutral rating, and a Negative rating. Morningstar claulates the Morningstar Quantitative Rating using a statistical model derived from the Morningstar Analyst Rating our fund analysts assign to open-end funds and ETFs. Please go to https://shareholders.morningstar.com/investor-

relations/governance/Compliance--Disclosure/default.aspx for information about Morningstar Analyst Rating Morningstar's fund analysts assign to funds

- Quantitative Parent pillar: Intended to be comparable to
 Morningstar's Parent pillar scores, which provides Morningstar's analyst opinion
 on the stewardship quality of a firm. Morningstar calculates the Quantitative
 Parent pillar using an algorithm designed to predict the Parent Pillar score our
 fund analysts would assign to the fund. The quantitative pillar rating is
 expressed in both a rating and a numerical value as High (5), Above Average (4),
 Average (3), Below Average (2), Low (1).
- Quantitative People pillar: Morningstar's People pillar scores, which provides Morningstar's analyst opinion on the fund manager's talent, tenure, and resources. Morningstar calculates the Quantitative People pillar using an algorithm designed to predict the People pillar score our fund analysts would assign to the fund. The quantitative pillar rating is expressed in both a rating and a numerical value as High (5), Above Average (4), Average (3), Below Average (2), Low (1).
- Quantitative Process Pillar: Intended to be comparable to Morningstar's Process pillar scores, which provides Morningstar's analyst opinion on the fund's strategy and whether the management has a competitive advantage enabling it to execute the process and consistently over time. Morningstar calculates the Quantitative Process pillar using an algorithm designed to predict the Process pillar score our fund analysts would assign to the fund. The quantitative pillar rating is expressed in both a rating and a numerical value as High (5), Above Average (4), Average (3), Below Average (2) and Low (1).

Morningstar Quantitative Ratings have not been made available to the issuer of the security prior to publication.

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The quantitative fund ratings are not statements of fact. Morningstar does not guarantee the completeness or accuracy of the assumptions or models used in determining the quantitative fund ratings. In addition, there is the risk that the return target will not be met due to such things as unforeseen changes in changes in management, technology, economic development, interest rate development, operating and/or material costs, competitive pressure, supervisory law, exchange rate, and tax rate. For investments in foreign markets there are further risks, generally based on exchange rate changes or changes in political and social conditions. A change in the fundamental factors underlying the quantitative fund ratings can mean that the recommendation is subsequently no longer accurate.

For more information about Morningstar's quantitative methodology, please visit https://shareholders.morningstar.com/investor-relations/governance/Compliance--Disclosure/default.aspx

Morningstar Category

Morningstar Category is assigned by placing funds into peer groups based on their underlying holdings. The underlying securities in each portfolio are the primary factor in our analysis as the investment objective and investment strategy stated in a fund's prospectus may not be sufficiently detailed for our proprietary classification methodology. Funds are placed in a category based on their portfolio statistics and compositions over the past three years. Analysis of performance and other indicative facts are also considered. If the fund is new and has no portfolio history, Morningstar estimates where it will fall before giving it a permanent category assignment. Categories may be changed based on recent changes to the portfolio.

Morningstar Rank

Morningstar Rank is the total return percentile rank within each Morningstar Category. The highest (or most favorable) percentile rank is zero and the lowest (or least favorable) percentile rank is 100. Historical percentile ranks are based on a snapshot of a fund at the time of calculation.

Morningstar Rating™

The Morningstar RatingTMfor funds, or "star rating", is calculated for funds and separate accounts with at least a three-year history. Exchange-traded funds and open-ended mutual funds are considered a single population for comparative purposes. It is calculated based on a Morningstar Risk-Adjusted Return measure that accounts for variation in a managed product's monthly excess performance, placing more emphasis on downward variations and rewarding consistent performance. The Morningstar Rating does not include any adjustment for sales loads. The top 10% of products in each product category receive 5 stars, the next 22.5% receive 4 stars, the next 35% receive 3 stars, the next 22.5% receive 4 stars, and the bottom 10% receive 1 star. The Overall Morningstar Rating for a managed product is derived from a weighted average of the performance figures associated with its three-, five-, and 10-year (if applicable) Morningstar Rating metrics. For more information about the Morningstar Rating for funds, including its methodology, please go to global.morningstar.com/managerdisclosures

The Morningstar Return rates a fund's performance relative to other managed products in its Morningstar Category. It is an assessment of a product's excess return over a risk-free rate (the return of the 90-day Treasury Bill) in comparison with the products in its Morningstar category. In each Morningstar category, the top 10% of products earn a High Morningstar Return (High), the next 22.5% Above Average (+Avg), the middle 35% Average (Avg), the next 22.5% Below Average (-Ave), and the bottom 10% Low (Low). Morningstar Return is



Morningstar Risk

Morningstar Risk evaluates a fund's downside volatility relative to that of other products in its Morningstar Category. It is an assessment of the variations in monthly returns, with an emphasis on downside variations, in comparison with the products in its Morningstar category. In each Morningstar category, the 10% of products with the lowest measured risk are described as Low Risk (Low), the next 22.5% Below Average (-Avg), the middle 35% Average (Avg), the next 22.5% Above Average (+Avg), and the top 10% High (High). Morningstar Risk is measured for up to three time periods (three, five, and 10 years). These separate measures are then weighted and averaged to produce an overall measure for the product. Products with less than three years of performance history are not rated.

Style Analysis

The Morningstar Style Box reveals a fund's investment style as of the date noted on this report.

For equity funds, the vertical axis shows the market capitalization of the long stocks owned, and the horizontal axis shows the investment style (value, blend or growth.) A darkened cell in the style box matrix indicates the weighted average style of the portfolio.

For portfolios holding fixed-income investments, a Fixed Income Style Box is calculated. The vertical axis shows the credit quality based on credit ratings and the horizontal axis shows interest-rate sensitivity as measured by effective duration. There are three credit categories- "High", "Medium", and "Low; and there are three interest rate sensitivity categories- "Limited", "Moderate", and "Extensive" resulting in nine possible combinations. As in the equity Style Box the combination of credit and interest rate sensitivity for a portfolio is represented by a darkened cell in the matrix.

Morningstar uses credit rating information from credit rating agencies (CRA's) that have been designated Nationally Recognized Statistical Rating Organizations (NRSRO's) by the Securities and Exchange Commission (SEC) in the United States. For a list of all NRSROs, please visit https://www.sec.gov/ocr/ocr-leam-nrsros.html. Additionally, Morningstar will use credit ratings from CRA's which have been recognized by foreign regulatory institutions that are deemed the equivalent of the NRSRO designation.

To determine the rating applicable to a holding and the subsequent holding weighted value of a portfolio two methods may be employed. First is a common methodology approach where if a case exists such that two rating organizations/ agencies have rated a holding, the lower rating of the two should be applied; if three or more CRA's have rated a holdingt the median rating should be applied, and in cases where there are more than two ratings and a median rating cannot be determined the lower of the two middle ratings should be applied. Alternatively, if there is more than one rating available an average can be calculated from all and applied. Please Note: Morningstar, Inc. is not an NRSRO nor does it issue a credit rating on the fund. Credit ratings for any security held in a portfolio may change over time.

Morningstar uses the credit rating information to calculate a weighted-average credit quality value for the portfolio. This value is based only upon those holdings which are considered to be classified as "fixed_income", such as government, corporate, or securitized issues. Other types of holdings such as equities and many, though not all, types of derivatives are excluded. The weighted-average credit quality value is represented by a rating symbol which

corresponds to the long-term rating symbol schemas employed by most CRA's. Note that this value is not explicitly published but instead serves an an input in Style Box calculation. This symbol is then used to map to a Style Box credit quality category of "low," "medium," or "high". Funds with a "low" credit quality category are those whose weighted-average credit quality is determined to be equivalent to the commonly used High Yield classification, meaning a rating below "BBB", portfolios assigned to the "high" credit category have either a "AAA" or "AA+" average credit quality value, while "medium" are those with an average rating of "AA" inclusive to "BBB-". It is expected and intended that the majority of portfolios will be assigned a credit category of "medium".

For assignment to an interest-rate sensitivity category Morningstar uses the average effective duration of the portfolio. From this value there are three distinct methodologies employed to determine assignment to category. Portfolios which are assigned to Morningstar municipal-bond categoriesemploy static breakpoints between categories. These breakpoints are "Limited" equal to 4.5 years or less.; (ii) "Moderate" equal to 4.5 years to less than 7 years, and "Extensive" equal to more than 7 years. For portfolios assigned to Morningstar categories other than U.S> Taxable, including all domiciled outside the United States, static duration breakpoints are also used. The values differ from the municipal category values, ; (i) "Limited" equals less than or equal to 3.5 years, "Moderate" equals greater than 3.5 years but less than or equal to 6 years, "Extensive" is assigned to portfolios with effective durations of more than 6 years. Note: Interest-rate sensitivity for non-U.S. domiciled portfolios (excluding those in Morningstar convertible categories) may be assigned using average modified duration when average effective duration is not available.

For portfolios Morningstar classifies as U.S Taxable Fixed-Income, interest-rate sensitivity category assignment is based on the effective duration of the Morningstar Core Bond Index (MCBI). The classification assignment is dynamically determined relative to the benchmark index value. A "Limited" category will be assigned to portfolios whose average effective duration is between 25% to 75% of MCBI average effective duration, where the average effective duration is between 75% to 125% of the MCBI the portfolio will be classified as "Moderate", and those portfolios with an average effective duration value 125% or greater of the average effective duration of the MCBI will be classified as "Extensive".

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P/B Ratio TTM

The Price/Book Ratio (or P/B Ratio) for a fund is the weighted average of the P/B Ratio of the stocks in its portfolio. Book value is the total assets of a company, less total liabilities. The P/B ratio of a company is calculated by dividing the market price of its outstanding stock by the company's book value, and then adjusting for the number of shares outstanding. Stocks with negative book values are excluded from this calculation. It shows approximately how much an investor is paying for a company's assets based on historical valuations.

P/C Ratio TTM

The Price/Cash Flow Ratio (or P/C Ratio) for a fund is the weighted average of the P/C Ratio of the stocks in its portfolio. The P/C Ratio of a stock represents the amount an investor is willing to pay for a dollar generated from a company's operations. It shows the ability of a company to generate cash and acts as a gauge of liquidity and solvency.

P/E Ratio TTM

The Price/Earnings Ratio (or P/E Ratio) for a fund is the weighted average of the P/E Ratios of the stocks in its portfolio. The P/E Ratio of a stock is the stock's current price divided by the company's trailing 12-month earnings per share. A high P/E Ratio usually indicates the market will pay more to obtain the company's earnings because it believes in the company's abilities to increase their earnings. A low P/E Ratio indicates the market has less confidence that the company's earnings will increase, however value investors may believe such



stocks have an overlooked or undervalued potential for appreciation

Percentile Rank in Category

distance from one another on the rating scale. Note that lower percentile ranks are generally more favorable for returns (high returns), while higher percentile numerical value is ranked 100. The remaining observations are placed equal ranks are generally more favorable for risk measures (low risk). the largest numerical value is ranked zero the observation with the smallest this case, funds within the same Morningstar Category. The observation with Percentile Rank is a standardized way of ranking items within a peer group, in

Performance Quartile

Performance Quartile reflects a fund's Morningstar Rank

Potential Capital Gains Exposure

appreciated, and it can be an indicator of possible future capital gains fund's holdings have generally increased in value while a negative value means distributions. A positive potential capital gains exposure value means that the that represent gains. It measures how much the fund's assets have Potential Capital Gains Exposure is an estimate of the percent of a fund's assets that the fund has reported losses on its book.

Quarterly Returns

except it represents return through each quarter-end Quarterly Return is calculated applying the same methodology as Total Return

R-Squared

helpful in assessing how likely it is that beta and alpha are statistically correlation between the security or portfolio and the benchmark. This figure is are explained by movements in its benchmark index, showing the degree of correlation. portfolio and its benchmark. The lower the R-squared value, the lower the significant. A value of 1 indicates perfect correlation between the security or R-squared is the percentage of a security or portfolio's return movements that

Regional Exposure

regions shown on the report. The regional exposure is a display of the portfolio's assets invested in the

Sector Weightings

generally have betas that are close to 1. the overall economy, but not severely so. Stocks in the Sensitive Super Sector to economic cycles, and the stocks in these industries generally have betas less stocks included in these sectors generally have betas greater than 1. The by assigning the 11 equity sectors into three classifications. The Cyclical Super than 1. The Sensitive Super Sector includes industries that ebb and flow with Defensive Super Sector generally includes industries that are relatively immune Sector includes industries significantly impacted by economic shifts, and the Super Sectors represent Morningstar's broadest classification of equity sectors

Share Change

Shares Change represents the number of shares of a stock bought or sold by a fund since the previously reported portfolio of the fund.

Sharpe Ratio

determine the reward per unit of risk. or portfolio's return in excess of the U.S. Treasury three-month Treasury Bill) to Sharpe Ratio uses standard deviation and excess return (a measure of a security

Standard Deviation

portfolio's returns. The larger the standard deviation, the greater the volatility Standard deviation is a statistical measure of the volatility of the security or

of return

Standardized Returns

of the period and sold at the end, incurring transaction charges an investor may have experience if the security was purchased at the beginning applicable) and ongoing fund expenses. Standardized Return reflects the return Returns page of this report. Standardized Return is calculated through the most Standardized Return applies the methodology described in the Standardized inception periods, and it demonstrates the impact of sales charges (if recent calendar-quarter end for one-year, five-year, 10-year, and/or since-

significantly reduced. adjusted to reflect all actual ongoing security expenses and assumes adjusting for sales charges (if applicable) or the effects of taxation, but it is sales charges and the effects of taxation, the performance quoted would be reinvestment of dividends and capital gains. It is the return an investor would have experienced if the fund was held throughout the period. If adjusted for Total Return, or "Non Load-Adjusted Return", reflects performance without

periods shown. measure by its Standard Index and/or Morningstar Category Index) over the time Total Return +/- indicates how a fund has performed relative to its peers (as

Trailing Returns

the period and sold at the end, incurring transaction charges. an investor may have experienced if the fund was purchased at the beginning of applicable) and ongoing fund expenses. Standardized Return reflects the return inception periods, and it demonstrates the impact of sales charges (if Returns page of this report. Standardized Return is calculated through the most recent calendar-quarter end for one-year, five-year, 10-year, and/or since-Standardized Return applies the methodology described in the Standardized

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with Standardized Return, it reflects the impact of sales charges and ongoing Standardized Return, except that it represents return through month-end. performance quoted would be significantly different. fund expenses, but not taxation. If adjusted for the effects of taxation, the Load-Adjusted Monthly Return is calculated applying the same methodology as

periods shown measure by its Standard Index and/or Morningstar Category Index) over the time Trailing Return +/- indicates how a fund has performed relative to its peers (as

Investment Risks

standards. Investing in emerging markets may accentuate these risks currency risk, political risk, and risk associated with varying accounting involves special additional risks. These risks include, but are not limited to, International/Emerging Market Equities: Investing in international securities

Sector Strategies: Portfolios that invest exclusively in one sector or industry to increased industry-specific risks. involve additional risks. The lack of industry diversification subjects the investor

Non-Diversified Strategies: Portfolios that invest a significant percentage of fluctuations, because of the increased concentration of investments assets in a single issuer involve additional risks, including share price

additional risks. Smaller companies typically have a higher risk of failure, and Small Cap Equities: Portfolios that invest in stocks of small companies involve



company stocks have experienced a greater degree of market volatility than the are not as well established as larger blue-chip companies. Historically, smalleroverall market average

may be more volatile and less liquid than the securities of larger companies below \$10 billion involve additional risks. The securities of these companies Mid Cap Equities: Portfolios that invest in companies with market capitalization

aware of the possible higher level of volatility, and increased risk of default. (commonly referred to as junk bonds) involve additional risks because of the lower credit quality of the securities in the portfolio. The investor should be High-Yield Bonds: Portfolios that invest in lower-rated debt securities

Alternative Minimum Tax. free municipal bond funds may be subject to state and local taxation and the Tax-Free Municipal Bonds: The investor should note that the income from tax-

general changes in interest rates. Portfolios that hold bonds are subject to declines and increases in value due to Bonds: Bonds are subject to interest rate risk. As the prevailing level of bond interest rates rise, the value of bonds already held in a portfolio declines.

products that, if the industry is hit by hard times, will lack diversification and underlying investments may not be representative of the particular industry, the discount to market price, ownership is of a fractional share interest, the possible loss of investment would be likely. These securities can trade at a drops below nine, and the investor may experience trading halts HOLDR might be delisted from the AMEX if the number of underlying companies The investor should note that these are narrow industry-focused

return under a variety of market conditions, hedge funds may involve a high hedge fund managers may be to reduce volatility and produce positive absolute who could bear the entire loss of their investment. degree of risk and are suitable only for investors of substantial financial means investing, and use of leverage, options and/or derivatives. Although the goal of strategies, using arbitrage (exploiting price inefficiencies), international the manager. This can include distressed or event-driven strategies, long/short specialized risks that are dependent upon the type of strategies undertaken by Hedge Funds: The investor should note that hedge fund investing involves

bank loans/senior debt are often highly leveraged, producing a high risk of risk. They are often non-investment grade; therefore, the risk of default is high These securities are also relatively illiquid. Managed products that invest in associated with fixed income in general, including interest rate risk and default Bank Loan/Senior Debt: Bank loans and senior loans are impacted by the risks

repayment of notes is subject to the issuer's ability to repay its obligations ETNs do not typically pay interest. Exchange Traded Notes (ETNs): ETNs are unsecured debt obligations. Any

greater or less than the index performance multiplied by the multiple stated objective). The leverage/gearing ratio is the amount of excess return that a objectives on a daily basis (or other time period stated within the prospectus return performance of the index they track and seek to meet their fund within the funds objective over a stated time period performance (i.e. 200%, 300%, -200%, or -300% or 2X, 3X, -2X, -3X) Compounding has the ability to affect the performance of the fund to be either leveraged investment is designed to achieve in comparison to its index Leveraged ETFs: Leveraged investments are designed to meet multiples of the

Short Positions: When a short position moves in an unfavorable way, the losses

> manager might have to close out a short position at an inopportune time to limit are theoretically unlimited. The broker may demand more collateral and a turther losses.

those focusing on traditional investment strategies. derivatives, these funds may have greater risk, volatility, and expenses than but are not limited to leverage, short selling, short-term trading, and investing in Long-Short: Due to the strategies used by long-short funds, which may include

market conditions, impacting an investor's ability to sell a fund Liquidity Risk: Closed-end fund, ETF, and HOLDR trading may be halted due to

a premium or discount to the NAV, which will affect an investor's value and thus independent of the NAV. This can result in the market price trading at traded on the secondary market is subject to the forces of supply and demand Market Price Risk: The market price of ETFs, HOLDRs, and closed-end funds

the impact it may have on the market price. Therefore, investors should be aware of the prospect of market fluctuations and several factors, such as security-specific factors or general investor sentiment. Market Risk: The market prices of ETFs and HOLDRs can fluctuate as a result of

guaranteed at any time, including at the fund's target date. allocation to equity mutual funds and increasing its allocations in fixed-income typically becomes more conservative over time, primarily by reducing its withdrawing their money. A target-date fund's investment objective/strategy are designed for investors who are planning to retire during the target date year The fund's target date is the approximate date when investors expect to begin mutual funds. An investor's principal value in a target-date fund is not Target-Date Funds: Target-date funds typically invest in other mutual funds and

the result of extremely favorable market conditions, which may not continue to making investment decisions. High double- and triple-digit returns: High double- and triple-digit returns were be the case. High returns for short time periods must not be a major factor when

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Benchmark Disclosure

Bloomberg US Agg Bond TR USD

any warranty, express or implied, as to the results to be obtained therefrom and accuracy or completeness of any information herein, nor does Bloomberg make to the maximum extent allowed by law, Bloomberg shall not have any liability or Bloomberg or Bloomberg's licensors own all proprietary rights in the Bloomberg of Bloomberg Finance L.P. and its affiliates (collectively "Bloomberg" Bloomberg Index Services Limited. Bloomberg® is a trademark and service mark dividends. Bloomberg Indexes and its associated data, Copyright © 2023 publish for the index are total returns, which includes the daily reinvestment of Backed Securities Index, and the Asset-Backed Securities Index. The returns we This index is composed of the BarCap Government/Credit Index, the Mortgage-US Aggregate Bond ETF. constituents displayed for this index are from the following proxy: iShares Core responsibility for injury or damages arising in connection therewith. The Indices. Bloomberg does not approve or endorse this material or guarantee the

Bloomberg US Government TR USD

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Bloomberg US Universal TR USD

BarCap U.S. Universal Bond Index: The U.S. Universal Index mirrors the increasingly popular "Core Plus" choice set used by many U.S.-dollar investors. It is the union of the U.S. Aggregate Index, the U.S. High Yield Corporate Index, the 144A Index, the Eurodollar Index, the Emerging Markets Index, the non-ERISA portion of the CMBS Index, and the CMBS High Yield Index. Municipal debt, private placements, and non-dollar- denominated issues are excluded from the Universal Index. The constituents displayed for this index are from the following proxy: iShares Core Total USD Bond Market ETF.

Morningstar Gbl Allocation TR USD

The index measures the performance of a multi-asset class portfolio of global equities, global bonds and cash. This portfolio is held in a static allocation that is appropriate for investors who seek average exposure to global equity market risk and returns. This Index does not incorporate Environmental, Social, or Governance (ESG) criteria.

Morningstar Lifetime Mod 2020 TR USD

The Morningstar Lifetime Moderate 2020 Index represents a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a U.S. investor who is about ten years away from retirement. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Morningstar Lifetime Mod 2025 TR USD

The Morningstar Lifetime Moderate 2025 Index represents a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a U.S. investor who is about 15 years away from retirement. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Morningstar Lifetime Mod 2030 TR USD

The Morningstar Lifetime Moderate 2030 Index represents a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a U.S. investor who is about 20 years away from retirement. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Morningstar Lifetime Mod 2035 TR USD

The Morningstar Lifetime Moderate 2035 Index represents a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a U.S. investor who is about 25 years away from retirement. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Morningstar Lifetime Mod 2040 TR USD

The Morningstar Lifetime Moderate 2040 Index represents a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a U.S. investor who is about 30 years away from retirement. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Morningstar Lifetime Mod 2045 TR USD

The Morningstar Lifetime Moderate 2045 Index represents a portfolio of global

equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a U.S. investor who is about 35 years away from retirement. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Morningstar Lifetime Mod 2050 TR USD

The Morningstar Lifetime Moderate 2050 Index represents a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a U.S. investor who is about 40 years away from retirement. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Morningstar Lifetime Mod 2055 TR USD

The Morningstar Lifetime Moderate 2055 Index represents a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a U.S. investor who is about 45 years away from retirement. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Morningstar Lifetime Mod 2060 TR USD

The index measures the performance of a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a US investor who has a target maturity date of 2060. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility. This Index does not incorporate Environmental, Social, or Governance (ESG) criteria.

Morningstar Lifetime Mod Incm TR USD

The Morningstar Lifetime Moderate Income Index represents a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a U.S. investor who is at least ten years into retirement. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

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Morningstar Mod Tgt Risk TR USD

The Morningstar Moderate Target Risk Index represents a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS This portfolio is held in a static allocation appropriate for U.S. investors who seek average exposure to equity market risk and returns.

Morningstar US Core Bd TR USD

The index measures the performance of fixed-rate, investment-grade USD-denominated securities with maturities greater than one year. It is market-capitalization weighted. This Index does not incorporate Environmental, Social or Governance (ESG) criteria.

Morningstar US Mid Brd Grt TR USD

The index measures the performance of US mid-cap growth stocks. It targets stocks representing the faster growing half of the mid-cap market. This Index does not incorporate Environmental, Social, or Governance (ESG) criteria.

Morningstar US Mod Con Tgt Alloc NR USD

The Morningstar Target Allocation Index family consists of indexes that offer a diversified mix of stocks and bonds created for local investors to benchmark their allocation funds. Morningstar's Category classification system defines the level of equity and bond exposure for each index. The Morningstar US Moderately Conservative Target Allocation Index seeks 40% exposure to global equity markets.

Morningstar US Sml Ext TR USD

The index measures the performance of US small-cap stocks. These stocks fall



between the 90th and 99.5th percentile in market capitalization of the investable universe. This Index does not incorporate Environmental, Social, or Governance (ESG) criteria

MSCI ACWI Ex USA NR USD

The MSCI AC World ex USA is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global developed and emerging markets. The index consists of 48 developed and emerging market country indices. The returns we publish for the index are total returns, which include reinvestment of dividends. The constituents displayed for this index are from the following proxy: iShares MSCI ACWI ex US ETF.

MSCI ACWI NR USD

The index measures the performance of the large and mid cap segments of all country markets. It is free float-adjusted market-capitalization weighted. The constituents displayed for this index are from the following proxy: iShares MSCI ACWI ETF.

MSCI EAFE NR USD

This Europe, Australasia, and Far East index is a market-capitalization-weighted index of 21 non-U.S., industrialized country indexes.

This disclosure applies to all MSCI indices: Certain information included herein is derived by Morningstar in part from MSCI's Index Constituents (the "Index Data"). However, MSCI has not reviewed any information contained herein and does not endorse or express any opinion such information or analysis. MSCI does not make any express or implied warranties, representations or guarantees concerning the Index Data or any information or data derived therefrom, and in no event will MSCI have any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) relating to any use of this information. The constituents displayed for this index are from the following proxy: Schwab International Index Fund®.

Russell 1000 TR USD

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Consists of the 1000 largest companies within the Russell 3000 index, which represents approximately 98% of the investable US equity market. Also known as the Market-Oriented Index, because it represents the group of stocks from which most active money managers choose. The constituents displayed for this index are from the following proxy: iShares Russell 1000 ETF.

Russell 2000 TR USD

Consists of the 2000 smallest companies in the Russell 3000 Index. The constituents displayed for this index are from the following proxy: iShares Russell 2000 ETF.

Russell Mid Cap Growth TR USD

Tracks the companies within the Russell Midcap Index with higher price-to-book ratios and higher forecasted growth values. The constituents displayed for this index are from the following proxy: iShares Russell Mid-Cap Growth ETF.

Russell Mid Cap TR USD

Measures the performance of the 800 smallest companies in the Russell 1000 Index, which represent approximately 25% of the total market capitalization of the Russell 1000 Index. The constituents displayed for this index are from the following proxy: iShares Russell Mid-Cap ETF.

S&P 500 TR USD

A market capitalization-weighted index composed of the 500 most widely held stocks whose assets and/or revenues are based in the US; it's often used as a proxy for the U.S. stock market. TR (Total Return) indexes include daily reinvestment of dividends. The constituents displayed for this index are from the following proxy: SPDR® S&P 500 ETF Trust.

USTREAS T-Bill Auction Ave 3 Mon

Three-month T-bills are government-backed, short-term investments considered to be risk-free and as good as cash because the maturity is only three months. Morningstar collects yields on the T-bill on a weekly basis from the Wall Street Journal.

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Performance figures are based on Net Asset Value (NAV) within a qualified retirement plan. If an individual were to purchase shares outside of a qualified plan, they would likely be subject to all, or a portion of, any applicable sales charges. These charges would lower the performance indicated above.

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The "Investment Policy Statement Compliance Report" indicates funds that are on the Plan's Watch List, as based on investment monitoring criteria which is provided to Hyas Group by the plan sponsor. The plan sponsor should inform its Hyas Group Consultant of any changes to the plan's investment policy.

Fund data provided by Morningstar.

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Peer Group Ranking Methodology. A percentile rank denotes the value of a product in which a certain percent of observations falls within a peer group. The range of percentile rankings is between 1 and 100, where 1 represents a high statistical value and 100 represents a low statistical value. The 30th percentile, for example, is the value in which 30% of the highest observations may be found, the 65th percentile is the value in which 65% of the highest observations may be found, and so on.

Percentile rankings are calculated based on a normalized distribution ranging from 1 to 100 for all products in each peer group, where a ranking of 1 denotes a high statistical value and a ranking of 100 denotes a low statistical value. It is important to note that the same ranking methodology applies to all statistics, implying that a ranking of 1 will always mean highest value across all statistics.

For example, consider a risk/return assessment using standard deviation as a measure of risk. A percentile ranking equal to 1 for return denotes highest return, whereas a percentile ranking of 1 for standard deviation denotes highest risk among peers.

In addition, values may be used to demonstrate quartile rankings. For example, the third quartile is also known as the 75th percentile, and the median is the 50th percentile.

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